

# CATALOGUE

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2020

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# GENERAL PRODUCTS

## TOOLS



### 30 PIECE ALLEN KEY SET AND CASE

**Product Code: O0000345**

- 2.5, 3, 4, 5, 6, 7, 8, 10mm and .028 to 3/8 SAE
- Ball point hex double ended set supplied with holder case
- Top quality vanadium, metric and imperial



### CHALK LINE SET

**Product Code: O0000351**

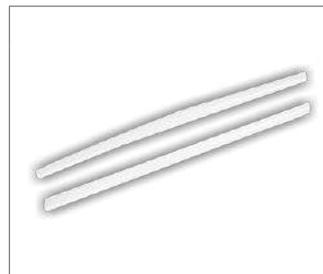
- 30m chalk line, bottle chalk and level



### EXTRA POWERFUL 100W GLUE GUN

**Product Code: O0000476**

- Will melt any glue
- GS safety mark
- Double insulated
- Glue sticks available



### GLUE STICKS

**Product Code: L0001346**

- 300 x 11mm



### SILICONE GUNS FOR 310mm TUBE

**Product Code: Light duty | O0003096**

**Product Code: Heavy duty | K0000567**



### SILICONE

**Product Code: 310ml White | L0000875**

**Product Code: 260ml White | L0001575**

**Product Code: 310ml Clear | B0000014**

**Product Code: 260ml Clear | L0001574**

- General purpose silicone cartridge
- Weather resistant
- Flexes with movement



### SISTA FOAM

**Product Code: L0000722**

- PU filter and expansion foam
- Safe to use on all materials
- Fills any gap
- 150% expansion
- Moisture resistant
- 500ml



### HEAVY DUTY COLD CHISEL

**Product Code: O0002020**

- Size: 25 x 250mm (with rubber grip)



### BENDING SPRINGS

- Product Code: 20mm Ø | K0000139**  
**Product Code: 25mm Ø | K0000141**  
**Product Code: 32mm Ø | K0000142**
- For PVC conduit



### PIPE BENDERS

- Product Code: 20mm | K0000171**  
**Product Code: 25mm | K0000174**
- Light duty metal conduit



### CABTYRE CUTTER

- Product Code: O0011645**
- Supplier Code: LK-38B
  - For cutting copper and aluminium cable up to 38mm<sup>2</sup> (2AWG)
  - Length: 210mm



### CABLE CUTTER

- Product Code: O0000374**
- Supplier Code: LK-125
  - For cutting copper and aluminium cable up to 125mm<sup>2</sup> (250MCM)
  - Length: 300mm



### MINI PRECISION CUTTER

- Product Code: O0000370**
- Insulated 4" 100mm diagonal cutter with spring action
  - Ideal for electronic, aviation, medical and telecom fields



### PVC CONDUIT CUTTER

- Product Code: O0000372**
- Cuts clean, fast and straight
  - 0 - 42mm Ø
  - Not suitable for non-SABS conduit



### 1000V ELECTRICAL LONG NOSE PLIERS

- Product Code: O0000555**
- Supplier Code: 801-200
  - 200mm 8" CR-V
  - Insulated for 1000AC and 1500DC heavy duty drop forged
  - Milled jaws
  - Moulded handles for maximum comfort
  - IEC60900, DIN EN 60900, VDE0608



### 8" WACO COMBINATION PLIERS

- Product Code: O0002212**



### 9" 5-IN-1 CRIMPING TOOL

- Product Code: O0002587**
- Supplier Code: KH-503
  - 1.5 - 6mm range non-insulated
  - Red, blue and yellow insulated lugs
  - Includes: wire cutter, machine screw cutter and wire stripper



### INDENT CRIMPER

- Product Code: O0002588**
- Supplier Code: KH150
  - 10 - 120mm<sup>2</sup> indent crimper
  - Adjusting screw to change crimper

# GENERAL PRODUCTS

## TOOLS



### CRIMPING PLIERS

**Product Code: O0002590**

- Supplier Code: ES16
- Insulated red handle
- Length: 190mm
- Range: 75 - 16mm



### HYDRAULIC CRIMPER

**Product Code: O0002586**

- Supplier Code: YQK240
- Hydraulic crimping set with 16T crimping force
- For copper and aluminium lugs
- Die size: 16-25-35-50-70-120-150-165-240
- Comes with carry case
- Length: 410mm



### WACO CRIMPING TOOL

**Product Code: O0000362**

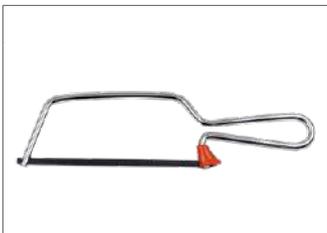
- Supplier Code: JY06120
- Mechanical crimper
- 6 - 120mm hex crimper
- Revolving head
- Length: 650mm



### WACO INDENT CRIMPER

**Product Code: O0001917**

- Supplier Code: KH150
- 10 - 120mm<sup>2</sup> indent crimper
- Adjusting screw to change crimper



### JUNIOR HACKSAW FRAME

**Product Code: O0000486**

- Supplier Code: FRZ3606
- Spare blades (12pk)



### WACO CLUB HAMMER

**Product Code: O0002073**

- 1.8kg
- Wooden handle



### WACO HACKSAW

**Product Code: O0000487**

- Supplier Code: 80951
- Rubber grip for better handling
- Blade can be mounted at 45° + 90° angle



### SCUTCH HAMMER

**Product Code: O0000498**

- 800g
- Ideal for cutting brick and removing mortar
- Uses replaceable comb



### CLUB HAMMER

**Product Code: O0002074**

- 1.8kg
- Fiberglass handle



### CHASING COMB

**Product Code: O0002693**

- For chasing hammer



### WACO FISH TAPE

**Product Code: 30m steel | O0000473**

**Product Code: 50m steel | O0000474**

**Product Code: 30m nylon | O0000472**

**Product Code: 80m nylon | O0002898**

- Casing moulded from high impact polyamide
- Steel tape 4mm
- Spring steel hardened and tempered
- 4mm polyamide high tensile strength



### WACO TAPE MEASURES

**Product Code: 5m x 19mm | O0000617**

**Product Code: 8m x 25mm | O0000618**

- Hard rubber casing with metal blade and belt clip
- Yellow face



### HAND POP RIVETER

**Product Code: O0000569**

- Aluminium body
- Suitable for 2.4, 3.2 and 4.8mm aluminium rivets



### SOLDERING IRONS

**Product Code: 40W 3mm | O0000582**

- Supplier Code: N140

**Product Code: 80W 5mm | O0000583**

- Supplier Code: N180
- Comes with moulded plug top



### HOLE CUTTER WITH CARRY CASE

**Product Code: O0003017**

**Product Code: Spare blades | O0002076**

- Cut holes up to 200mm in ceiling, wall or floor
- Off-cut cup catches chips and prevents chips from flying into eyes
- Cuts wood, plaster, board and acrylic
- Cuts steel up to 1.00mm thick



### WACO MEASURING WHEEL

**Product Code: O0000338**

- Measures to (bxcmm) 10 000m with indicator light
- Reverse subtract facility
- Carry case included
- Ideal for: Contractors, farmers, real estate agents, accident investigating and school council



### DISTANCE MEASURER

**Product Code: O0002328**

- Supplier Code: EM59
- Fast and accurate
- Measures from 40cm to 18m



### SPIRIT LEVELS

**Product Code: 450mm | O0000591**

**Product Code: 600mm | O0002719**

# GENERAL PRODUCTS

## TOOLS



### CLEAR SAFETY GOGGLES

**Product Code:** P0000056

- Comes with lens and adjustable strap



### HEAVY DUTY CLEAR SAFETY GOGGLES

**Product Code:** P0000031

- Comes with lens and adjustable strap



### WACO DARK SAFETY GLASSES

**Product Code:** P0000040

- Supplier Code: WSG007
- Modern look



### WACO SAFETY GLASSES

**Product Code:** Clear | P0000035

- Supplier Code: P35 = WSG001

**Product Code:** Yellow | P0000036

- Supplier Code: P36 = WSG002
- Yellow and dark lens



### FLAT AND PHILLIPS SCREWDRIVERS

**Product Code:**  
Flat | 4 x 100 | O0002090

**Product Code:**  
Phillips | 1 x 100 | O0002091

- Impact resistant and insulated shaft for safety



### WACO 7 PIECE SCREWDRIVER SET

**Product Code:** O0002632

- Rubber grip with insulated shaft



### GEYSER SPANNER

**Product Code:** L0000765

- 127mm heavy duty geysler spanner



### STOCK AND DIES

**Product Code:** O0002648

- Electric conduit
- Circular solid dies
- 20 and 25mm set



### DIGITAL INFRARED LASER THERMOMETER

**Product Code: O0002014**

- Supplier Code: EM520B
- Non-contact infrared thermometer with laser sighting for pinpoint measurements
- Laser point for accurate use
- Designed for quick, basic temperature checks
- Easy to read digital LCD display with blue back-light
- F/C switchable
- Laser pointer
- Measures surface temperature without contact
- Includes rope for easy carrying

#### Specifications

Temperature range	20 ~ 520C/- 4 ~ 968F
Distance to spot	8: 19V (6F22) battery x 1 pc
Dimensions	90 x 155 x 45mm
Weight	About 150g



### DIGITAL INSULATION RESISTANCE TESTER

**Product Code: O0002013**

- Supplier Code: EM480A
- For insulation resistance test, you can change the test voltage among 250V, 500V and 1000V
- Used for testing transformers, motors, cables, switches and electrical appliances
- Data hold mode
- Test voltage can be changed using the rotary switch
- LED used as normal working indicator under high voltage conditions
- Auto power off
- Ability to withstand high load
- Protection circuit provided, to be able to avoid damage caused by the discharge voltage of the tested load
- Powered by batteries
- Leads:
  - Test lead with big test clip
  - High voltage test lead
  - Normal test lead (for insulation resistance test, user can connect an alligator clip to the test lead's probe for easy use if necessary)

#### Specifications

Rated test voltage	250V / 500V / 1000V
Voltage AC	700V
Output voltage rated test	-
Voltage	(1+/-10%) Insulation resistance
Resistance	200 Ω
Continuity	Approx. 2.8V
Test range	0.25 ~ 2000 Ω
Nominal current	1mA
Minimum resolution	0.001 M Ω
Buzzer	When resistance < 1M Ω
Power supply	9V DC (1.5V "AA" battery x 6)
Dimensions	168 (L) x 110 (W) x 62 (H) mm
Weight	Approx. 485g (battery included)



### SOCKET TESTER

**Product Code: O0002016**

- Supplier Code: EM908
- Provides a true ground error indication through the LCD
- Quick recognition of dangerous voltage being present at the protective earth
- Use of three neon indicators provides rapid detection of correct/incorrect wiring
- Provides fast and effective RCD test function
- IEC 61010 CAT 111

#### Specifications

Nominal voltage	220V +/- 10% (For EM908 only) 110V +/- 10% (For EM908A only)
Frequency range	50 ~ 60Hz
Measurement	CAT III, 300V60 ~ 300ms
RCD-test time	70g (with battery)
Contact voltage threshold	< 35V AC against ground depending on coupling to earth
RCD test current	30mA +/- 15%
Dimensions	77 x 67 x 66mm



### DIGITAL MULTIMETER 5-IN-1 AC/DC

**Product Code: O0001889**

- Supplier Code: EM5510
- Includes functions such as:
  - Automatic polarity indication
  - Data hold mode
  - Relative value mode
  - Overload protection
  - Low battery indication
  - Can measure sound level, relative humidity, temperature and illumination
  - 3 3/4-digit digital multimeter
  - Manual/auto range mode

Specifications	
Voltage DC	400m/4/40/400/250V
Voltage AC	4 / 40 / 400 / 250V
Current DC	400u/4000u/40m/400m/10A
Current AC	400u/4000u/40m/400m/10A
Resistance	400/4k/40k/400k/4M/40MU
Humidity	30% - 95%
Light	4000Lux/40000Lux
Sound level	35 - 100dB
Power	9V battery (6F22)
Dimensions (W x L x T)	83 x 162 x 47
Frequency	10/100/1K/100K/200KHz
Duty cycle	5% ~ 95%
Continuity	Less than 50
Temperature	- 20°C ~ 100°C
Diode test	Approx. 1.5V



### CLAMP METER AC/DC

**Product Code: O0001896**

- Supplier Code: EM465
- IEC - 61010 CATII, overload protection
- 3 1/2 digits LCD display
- Includes functions such as:
  - Data hold mode
  - Automatic zeroing mode
  - Maximum value hold mode
  - Low battery indication
  - Overload protection
  - Free carry case and 9V battery
  - Manual/auto range mode

Specifications	
Voltage DC	200m/2/20/200/600V
Voltage AC	2/20/200/600V
Current AC	2/20/200/600A
Resistance	200/2k/200k/2M/20M Ω
Power	1.5 (AAA) battery
Frequency	2KHz (input)/45 ~ 65Hz
Temperature	-20°C ~ 1000°C/-4°C ~ 1832°F



### DIGITAL CLAMP METER

**Product Code: O0001203**

- Supplier Code: EM204
- 3 1/2 digits LCD display with maximum reading 1999
- Includes functions such as:
  - Data hold function
  - Low battery indication
  - Audible continuity
  - DCA and ACA measurement
  - IEC - 61010 CATII
  - Overload protection
  - Includes zeroing function

Specifications	
Voltage DC	1000V
Voltage AC	750V
Current DC	200 / 1000A
Current AC	200 / 1000A
Resistance	200 Ω
Power	9V battery (6F22)
Dimensions (W x L x T)	250 x 100 x 46mm
Frequency	2KHz
Continuity	Less than 50 Ω



### DIGITAL CLAMP METER

**Product Code: O0002385**

- Supplier Code: EM203
- Data hold function
- Low battery indication
- Overload protection
- Audible continuity
- Free carry case and 9V battery

Specifications	
Voltage DC	1000V
Voltage AC	750V
Current DC	200/1000A
Current AC	200/1000A
Resistance	200 Ω
Power	9V battery (6F22)



### DIGITAL CLAMP METER

**Product Code: O0002012**

- Supplier Code: EM266
- Large LCD display
- Free carry case and 9V battery
- ETL certified

Specifications	
Voltage DC	1000V
Voltage AC	750V
Current DC	20/1000A
Current AC	200/1000A
Resistance	200k Ω
Power	9V battery (6F22)
Continuity	< 50 Ω



### DIGITAL MULTIMETER AC/DC

**Product Code: O0001414**

- Supplier Code: EM5801
- Multimeter with an extra-long lead of 980mm, large LCD screen
- Comes in a heavy-duty rubber, splash proof and drop proof casing with pop-up stand
- Auto power off
- 32 position rotary switch

Specifications	
Voltage DC	200m/2/20/200/1000V
Voltage AC	200m/2/20/200/750V
Current DC	20/200/2m/20m/200m/2/20
Current AC	20/200/2m/20m/200m/2/20
Resistance	200/2k/20k/200k/2M/20M Ω
Power	9V battery (6F22)
Dimensions (W x L x T)	93 x 200 x 50



### DIGITAL MULTIMETER AC/DC

**Product Code: O0001413**

- Supplier Code: EM420B
- Maximum 1000A AC/DC current measurement with current clamp
- 2 Fuses protection
- Provides a maximum reading of 1999 off a backlit LCD display
- Maximum value hold and data mode
- Overload protection and manual/auto range
- Low battery indication
- Automatic polarity indication

Specifications	
Voltage DC	200m/2/20/200/250V
Voltage AC	2/20/200/250V
Current DC	200/2000/20m/200m/2/10A /400/100A (with clamp)
Current AC	200u/2000u/20m/200m/2/10A/400/1000A (with clamp)
Resistance	200/2k/20k/200k/2M/20M Ω
Power	1.5V (AAA) x 3
Dimensions (W x L x T)	75 x 158 x 35
Capacity	20m/200m/2m/20m/200m/1000mf
Temperature	-20°C ~ 1000°C/0°F ~ 1800°F
HFE	VCE = 1.0v, Ib = 2uA
Continuity	Less than 30 Ω
Diode check	Approximately 1.5V



### DIGITAL MULTIMETER AC/DC

**Product Code: O0003095**

- Supplier Code: EM382C
- Provides a maximum reading of 1999 off a backlit LCD display
- Low battery indication
- Overload protection
- Audible continuity
- Data hold

Specifications	
Voltage DC	200 / 600V
Voltage AC	600V
Current DC	200m / 10A
Resistance	200k / 2000k Ω
Diode check	2.8V / 1mA
Continuity	Approximately 2.8
Square wave	50Hz
Diode check	30 Ω



### LED AC VOLTAGE DETECTOR

**Product Code: O0002017**

- Supplier Code: GK7
- UL certified
- Non-contact AC voltage detection
- LED lights and the buzzer sounds if voltage is present
- Portable and easy to use
- IEC 61010 CATIII, U.S

Specifications	
Voltage range	70 ~ 1000V AC
Frequency	50 / 60 Hz
Power source	1.5V (AAA) x 2pcs



### WIBRE VOLTAGE TESTER

**Product Code: O000328**

- Heavy duty rubber grip
- Measures AC and DC
- Neon indication
- IP rated
- Requires no battery
- Range 110 - 750



### POCKET SCREWDRIVER VOLTAGE TESTER

**Product Code: O0002633**

- Used for testing mains power circuits 90V - 240V



### DIGITAL MINI MULTIMETER

**Product Code: O0002386**

- Supplier Code: EM311
- On/Off switch with a 3½" digital screen
- Comes with a 101A jack
- Low battery indication
- Overload protection

Specifications	
Voltage DC	200m/2000m/20/200/600V
Voltage AC	200/600V
Current DC	2000/20m/200m/10A
Power	12V battery (23A)
Dimensions (W x L x T)	58 x 120 x 28

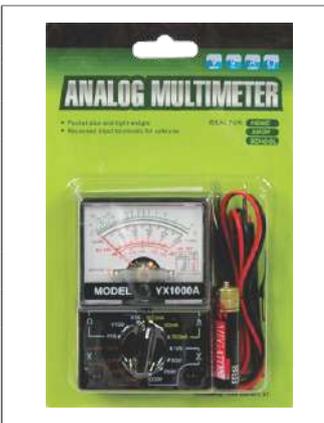


### DIGITAL MULTIMETER

**Product Code: O0002412**

- Supplier Code: DT810B
- Low battery indication
- Overload protection
- 3½" digits LCD display
- Battery tester 1.5V to 9V (quality battery)

Specifications	
Voltage DC	200m/2000m/20/200/300V
Current DC	22m/20m/200mA
Resistance	200/2000/20k/200k/2M Ω



### ANALOGUE POCKET MULTIMETER

**Product Code: O000329**

- Supplier Code: YX1000A
- Pocket sized and light weight
- Provides 14 measuring ranges
- Comes with free battery
- Recessed input terminals for safe use
- Measures battery current

Specifications	
Voltage DC	0.5/50/500V
Voltage AC	10/50/250/1000V
Current DC	10/50/250/1000A
Power	1.5V (AAA)
Dimensions (W x L x T)	60 x 90 x 33
Weight	70g (with battery)

# GENERAL PRODUCTS

## TOOLS



### CARRY-HANDLE TOOLBAG WITH SHOULDER STRAP

**Product Code: O0002095**

- Supplier Code: NFD208
- Standard tool bag made with durable material and aluminium handle
- With or without protection cover



### WACO TOOL BACKPACK

**Product Code: O0011624**

- Includes:
- 1x 100g mini hammer
- 1x 150mm mini saw
- 1x utility knife
- 1x 200mm spanner
- 1x 5m tape measure
- 1x cable shear
- 1x "2" 8 \* 150mm screwdriver (1000V)
- 1x "2" 6.5 \* 150mm screwdriver (1000V)
- 1x "+" Ph2 \* 125mm screwdriver (1000V)
- 1x "2" 5 \* 125mm screwdriver (1000V)
- 1x "+" Ph1 \* 125mm screwdriver (1000V)
- 1x "2" 4 \* 100mm screwdriver (1000V)
- 1x "2" 3 \* 75mm screwdriver (1000V)
- 1x terminal driver
- 1x screwdriver tester
- 1x 230mm combination plier
- 1x 165mm combination plier
- 1x 215mm diagonal cutting plier
- 1x 165mm long nose plier
- 1x 200mm long nose plier
- 1x 160mm wire stripper



### WACO METAL TOOLBOX

**Product Code: O0002263**

- Lockable 5-tier toolbox



### UTILITY KNIFE DELUX

**Product Code: O0000541**

- 175mm retractable knife
- Blade depth adjuster with spare blade



### UTILITY KNIFE WITH RETRACTABLE BLADE

**Product Code: O0000542**

- Die-cast aluminium with spare blade



### UTILITY KNIFE WITH NON-RETRACTABLE BLADE

**Product Code: O0001238**

- Fixed blade



### UTILITY KNIFE WITH FOLD + CLIP

**Product Code: O0001406**

- Includes 10 blades



### WACO UTILITY KNIFE SPARE BLADES

**Product Code: O000538**

- Includes 5 blades



### WACO UTILITY KNIFE SPARE BLADES

**Product Code: O0001057**

- 100 piece dispenser



### 6, 8 AND 10 STEP ALUMINIUM LADDERS



- Heavy duty stepladder for industrial use
- Safe working load 135kg
- Heavy duty riveted steps
- Wide tread steps
- Rubber non-slip feet

Product Code	Supplier Code	Number of Steps	Size (m)
O0000545	LAS6	6	1.8
O0000546	LAS8	8	2.4
I0002975	LAS10	10	3



### 24 STEP ALUMINIUM EXTENSION LADDER

**Product Code: O0002269**

- Supplier Code: CE600
- Industrial duty extension ladder
- Safe working load 115kg
- Size 3.3m - 6.0m
- D-style rung eliminates twisting
- Easy to handle
- Rubber non-slip feet



### 8 STEP FIBERGLASS A-FRAME LADDER

**Product Code: O0002767**

- Supplier Code: FGS8
- Non-conductive for electrical applications
- Safe working load 135kg
- Fibreglass with aluminium steps
- Available in single and double sided ladders
- Non-slip rubber feet

# GENERAL PRODUCTS

## TOOLS



### 7" CRESCENT LONG-NOSE PLIERS

**Product Code: O0001423**

- 180mm long chain nose pliers
- Fine serrated jaws
- Hardened side cutting edges
- Non-slip cushion grips



### 8" CRESCENT LINEMAN'S PLIERS

**Product Code: O0001419**

- 200mm hardened side cutting edges
- Flat nose with teeth and pipe grip
- Cuts multiple gauge wires
- Heat treated, forged alloy steel
- Yellow grips providing maximum hold with minimum slippage



### 8" CRESCENT DIAGONAL CUTTER

**Product Code: O0001420**

- 200mm side cutter
- Heavy duty diagonal cutter
- Non-slip isolated grips
- Chrome vanadium steel



### 8" CRESCENT ADJUSTABLE SPANNER

**Product Code: O0002605**

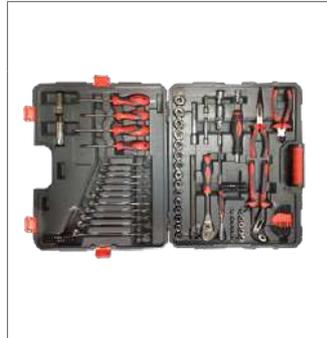
- 29mm jaw fits a wide range of fastener sizes
- Hex jaw design reduces slippage
- Wider handle improves comfort
- Chrome plated finish



### 10" CRESCENT TONGUE AND GROOVE PLIERS

**Product Code: O0001424**

- 250mm tongue and groove pliers
- 6 jaw positions
- New rivet construction with precision-machined joint interlock
- Unique alloy steel and tooth design
- Straight jaws, offset and self-locking adjustment



### CRESCENT 110 PIECE TOOL SET

**Product Code: O0002757**

- The set includes 110 pieces in high-quality Chrome-Vanadium (except pliers)
- Pliers chrome/nickel, mirror finish, with cushion grip
- Socket sizes: 4 - 27
- Spanner sizes: 8 - 19



### 8" LONG NOSE PLIERS

**Product Code: O0011642**

- Supplier Code: LN-118V



### CRIMPING TOOL

**Product Code: O0000365**

- Supplier Code: LY-03B
- Crimper for push on uninsulated lugs
- Male and female lugs
- Range: 0.5 - 6mm AWG20 - 10



### CRIMPING TOOL

**Product Code: O0002593**

- Supplier Code: SN-03H
- Crimper hex or for coax RG tyre cable
- Range: 4.5, 3.25, 3.84, 1.72 and 1.0mm
- Fibre optic beldeu 8218



### CRIMPING TOOL

**Product Code: O0000368**

- Supplier Code: LY-04C
- Crimper for insulated terminal from: 0.14 - 6mm<sup>2</sup>
- G: 0.14 - 0.5mm<sup>2</sup> AWG26 - 20
- R: 0.75 - 1.5mm<sup>2</sup> AWG18 - 16
- B: 2.0 - 2.5mm<sup>2</sup> AWG14
- Y: 3.5 - 6mm<sup>2</sup> AWG12 - 10



### CRIMPING TOOL

**Product Code: O0000363**

- Supplier Code: KH-16
- Ratchet type with long leverage handles
- Range: 1.5 - 16.0mm<sup>2</sup> unisulated lugs



### CRIMPING TOOL

**Product Code: O0000364**

- Supplier Code: KH-22
- 6 - 25mm<sup>2</sup> unisulated terminals
- Ratchet type



### HAND CRIMPER

**Product Code: O0002585**

- Supplier Code: HX-120B
- BS standard copper terminals
- Hexagon crimping tool with revolving dies
- Range: 10 - 120mm<sup>2</sup>



### CRIMPING PRESS

**Product Code: O0000367**

- Supplier Code: LY-10
- Length: 230mm
- Ratchet type
- Range: 1.5 - 10.0 / AWG16 - 8
- For unisulated lugs and ferrules



### WIRE STRIPPER

**Product Code: O0002706**

- Supplier Code: LY-700B
- For stripping cable with diameters of 1.0, 1.6, 2.0, 2.6 and 3.2mm



### 3-IN-1 WIRE STRIPPER

**Product Code: O0000614**

- Supplier Code: LY-731 B
- Adjustable stripping tension
- Wire cutter
- Wire stripper - standard and solid wire 0.13 - 6mm<sup>2</sup>
- Crimping tool



### 7" DIAGONAL CUTTER

**Product Code: O0011639**

- Supplier Code: HDP-157V
- 1000V insulated
- Coloured sheathed handles



### 8" LONG NOSE PLIER

**Product Code: O0011642**

- Supplier Code: LN-118V
- 1000V insulated
- Coloured sheathed handles



### 8" COMBINATION PLIER

**Product Code: O0011641**

- Supplier Code: CP-128V
- 1000V insulated
- Coloured sheathed handles



### WATER PUMP PLIER

**Product Code: 10" | O0011633**

- Supplier Code: ES-1218C

**Product Code: 12" | O0011634**

- Supplier Code: ES-1218E
- Water pump plier with screwdriver and button



### INSULATED SCREWDRIVERS

**Product Code: O0011648**

- Supplier Code: SW-867700
- PH0 75mm
- 1000V

**Product Code: O0011649**

- Supplier Code: SW-867701
- PH1 75mm
- 1000V

**Product Code: O0011650**

- Supplier Code: SW-867702
- PH2 100mm
- 1000V

**Product Code: O0011651**

- Supplier Code: SW-867703
- PH3 100mm
- 1000V



### HAND CABLE CUTTER

**Product Code: O0011644**

- Supplier Code: LK-22A
- Length: 160mm
- Cable cutter for cutting copper and aluminum cable up to 20mm<sup>2</sup>



### HAND CABLE CUTTER

**Product Code: O0011645**

- Supplier Code: LK-38B
- Length: 210mm
- Cable cutter for cutting copper and aluminum cable up to 38mm<sup>2</sup>



### INSULATED SCREWDRIVERS

**Product Code: O0011647**

- Supplier Code: SW-867704
- 0.5 x 0.3 x 80mm
- 1000V

**Product Code: O0011646**

- Supplier Code: SW-867705
- 0.8 x 4.0 x 100mm
- 1000V

**Product Code: O0011636**

- Supplier Code: SW-867708
- 1.2 x 8.0 x 150mm
- 1000V

**Product Code: O0011638**

- Supplier Code: SW-867706
- 1.0 x 5.5 x 125mm
- 1000V

**Product Code: O0011637**

- Supplier Code: SW-867707
- 1.2 x 6.5 x 150mm
- 1000V



### CRIMPING TOOL

**Product Code: O0011635**

- Supplier Code: KH-6
- For non-insulated terminal crimping
- Ratch type
- Crimping range: 0.5 - 5.5mm<sup>2</sup>



### WIRE STRIPPER

**Product Code: O0011643**

- Supplier Code: LY-700F
- Self adjusting cutter strip
- Stripping size: 0.2mm<sup>2</sup> - 6mm<sup>2</sup>



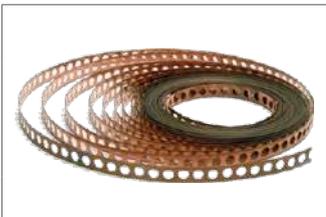
### 7 PIECE INSULATED SCREWDRIVER SET

**Product Code: O0000573**

- Supplier Code: SW-867-A7
- Complete with carry case
- New soft grip rubber handle
- 1000V
- Insulated shaft
- VDE/GS approved

Content	Tip Size (mm)	Blade Diameter (mm)	Blade Length (mm)
3pc	(-) 0.5	3.0	80
	(-) 1.0	5.5	125
	(-) 1.2	6.5	150
3pc	(+) 0	3.0	75
	(+) 1	5.0	75
	(+) 2	6.0	100
1pc	Voltage Tester 145mm (120V - 250V)		

## CONTRACTING ITEMS



### COPPER EARTH TAPE

Product Code	Type	Size (mm)	Length (m)	Weight (g)
L0003935	Perforated	0.5 x 12	10	360
L0001671			13	500



### GALVANISED DRAW WIRE

Product Code	Size (mm)	Length (m)	Weight (g)
A0003411	1.6	126	2
A0003412		315	5

# GENERAL PRODUCTS

## CONTRACTING ITEMS



### EARTH SPIKE AND CLAMP

Product Code: 1.2m x 12mm with clamp - C grade | L0002734

Product Code: 1.2m x 16mm no clamp - B grade | L0002735

Product Code: 1.5m x 16mm no clamp - B grade | L0003914

Product Code: clamp and bolt 16mm | L0001669

Product Code: coupling | L0001566

- Other grades and sizes available on request



### GALVANISED SADDLE STRAPS

Product Code	Size (mm)
K0000309	16
K0000365	20
K0000366	25
K0000367	32
K0000368	40
K0000369	50



### GALVANISED HOSPITAL SADDLES

Product Code	Size (mm)
K0000835	20
K0000836	25



### ESCUTCHEON C/B BLANKS

Product Code	Size (mm)	Type
E0000866	13	1-Way White
E0000864	13	1-Way Black
E0000865	26	2-Way White
E0000867	26	2-Way Black



### GALVANISED LOCKNUTS

Product Code	Size (mm)
K0000285	20
K0000909	25
K0000526	32
K0000279	40
K0000281	50



### CABLE COMPOUND PUTTY

Product Code: H0000068

- B.I.C.C
- 500g pack



### BRASS BUSHES

Product Code	Type	Size (mm)
K0000224	Male	20
K0000226	Male	25
K0000228	Male	32
K0000787	Male	40
K0000830	Male	50
K0000223	Female	20
K0000225	Female	25
K0000227	Female	32
K0000788	Female	40
K0000958	Female	50



### SWIMMING POOL TRANSFORMERS

Product Code: 120VA | J0000032

Product Code: 300VA | L0000893

- Double wound
- 230V to 12V



### WATERTIGHT SWITCH 10AMP

Product Code: L0001944

- Supplier Code: WS01
- 250V ~ 50/60Hz
- MS616-1
- IEC60669-1
- IP66



### WATERTIGHT SWITCH 16AMP

Product Code: A0003653

- Supplier Code: N2500
- 16A, 1 way - double pole lockable
- Top and bottom entry
- Material: grey polycarbonate/ nylon 66
- IP66



### NWI ISOLATORS

- Top and bottom entry

Product Code	Type	Current (A)
A0000308	Double Pole	30A
A0000309	Triple Pole	30A
A0000310	Double Pole	60A
A0000311	Triple Pole	60A

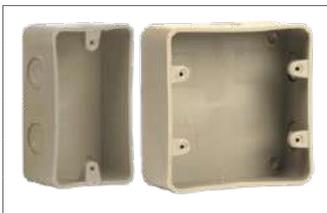
# GENERAL PRODUCTS

## CONTRACTING ITEMS



### EXTENSION BOXES

Product Code	Type	Size
K0000201	Open	100 x 100
K0000829	Closed	100 x 100
K0000200	Open	100 x 50
K0000828	Closed	100 x 50



### PVC WALL BOXES

Product Code	Type	Size
K0000374	PVC	100 x 100
K0000372	PVC	100 x 50



### STEEL WALL BOXES

Product Code	Type	Size
K0000839	Galvanised Steel	100 x 100
K0000838	Galvanised Steel	100 x 50



### PVC FLEXIBLE TUBING

Product Code: 20mm | K0000537  
 Product Code: 25mm | K0000456



### PVC METER BOX PIPE

Product Code: C0001240

- With lock ring
- Size: 1.8m x 900mm
- Colour: Black



### SPRING TOGGLES

Product Code:  
 5mm x 50mm screw | I0002677

Product Code:  
 5mm x 75mm screw | I0005623

- For medium fastening in wallboard, plastic and holotile
- Spreads the load over maximum area



### NYLON WALL ANCHOR WITH SCREWS

Product Code	Size (mm)
O0002896	5 x 36
O0002884	6 x 35
I0002681	6 x 55
O0002866	8 x 60
O0001254	8 x 80



### SHIELD ANCHORS / WALL BOLTS

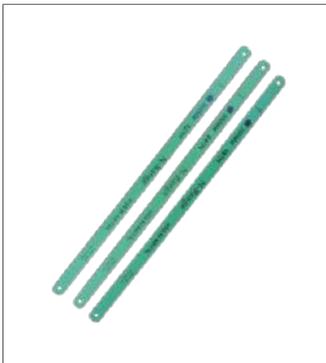
- Ideal for fixing into brick, masonry or concrete
- With hex bolt

Product Code	Bolt Diameter (mm)	Fixing Length (mm)
I0002671	6	40
I0002672	8	65
O0000566	10	75



### ECLIPSE HACKSAW BLADES

Product Code	Colour	Number of Teeth
O0002671	Blue	18
O0002672		24
O0002673		32
O0000479	Black	18
O0000480		24
O0000481		32



### N-RANGE HACKSAW BLADES

Product Code: 24 teeth | O0001939  
 Product Code: 32 teeth | O0001936

- Hardened alloy teeth
- Hardened tooth edges welded to flexible steel backs for superior durability



### DIAMOND MASONRY CUTTING DISCS

Product Code: 115mm | O0000387  
 Product Code: 230mm | O0000388

- Wet or dry cut
- General purpose dry cutting for most concrete surfaces



### SUPERFLEX CUTTING DISCS

Product Code: Masonry | O0004708  
 Product Code: Steel | O0000392

- Diameter: 230mm
- Application:
  - Masonry - stone, concrete, marble
  - Steel - mild steel/construction steel, non-ferrous metals



### TURBO AND SEGMENTED DIAMOND CUTTING DISCS

Product Code: Gold | O0001929

- 2 piece gold segmented
- 230mm cutting discs

## CONTRACTING ITEMS



### SDS DRILL BITS

- 4-flute for quick removal of debris
- High quality carbide tip with sandblast finish
- Reduced vibrations
- For easier drilling with reduced strain on both power tool and user
- For concrete, masonry and natural stone

Product Code	Size (mm)
O0001228	5 x 110
O0002955	5 x 160
O0002987	6 x 110
O0002956	6 x 160
O0002998	8 x 110
O0001038	8 x 160
O0002064	10 x 110
O0001039	10 x 160
O0002988	12 x 310
O0002989	20 x 310



### CONCRETE DRILL BITS

- Percussion drill bit with rotary hammer drill bit
- High quality carbide tip and special steel made to rotary hammer drill specifications
- S4 flute for quick removal of debris

Product Code	Size (mm)
O0002334	3.0 x 60
O0002335	4.0 x 75
O0002023	5.5 x 100
O0002336	6.0 x 100
O0002975	6.5 x 85
O0002977	8.0 x 120
O0002978	9.0 x 120
O0002976	10.0 x 120
O0002979	10.0 x 400
O0001225	16.0 x 400
O0002980	20.0 x 400



### HSS DRILL BITS

- Type N right hand straight shank
- Efficient standard drill suitable for all usual drilling work in all materials: steel, cast-steel alloyed and unalloyed up to 900n/mm<sup>2</sup> strength, grey cast, nickel-silver, graphite, cast-iron, short-chipping, aluminium alloys and brass

Product Code	Size (mm)
O0002331	3.0 x 61
O0002026	3.2 x 61
O0002028	3.5 x 70
O0002029	4.0 x 75
O0002332	4.2 x 75
O0002333	4.5 x 80
O0002033	5.0 x 86
O0002034	5.5 x 93
O0002035	6.0 x 93
O0002036	6.5 x 101
O0002037	7.0 x 109
O0002038	8.0 x 117
O0002039	9.0 x 125
O0002040	10.0 x 133
O0002584	11.5 x 142
O0002041	12.0 x 151



### 25 PIECE HSS SET AND CASE

Product Code: O0000461

- Size 1 - 13mm



### 7 PIECE SDS SET AND CASE

Product Code: O0001229

- Sizes: 5 - 12mm



### 9 PIECE ELECTRICAL HOLESAW KIT

Product Code: O0003029

- Contents: drill, arbour and 5x holesaws
- Saw sizes: 22, 25, 32, 51 and 63mm



### WACO HOLESAWS

- Comes complete with arbour and allen key

Product Code	Dimension (mm)
O0000518	16
O0000519	20
O0000520	22
O0000521	25
O0000522	32
O0000523	40
O0000524	50
O0002241	63
O0002242	75
O0001237	85

# GENERAL PRODUCTS

## CONTRACTING ITEMS



### TUNGSTEN HOLESAWS

- Product Code: 20mm | O0000511
- Product Code: 22mm | O0013852
- Product Code: 25mm | O0000513
- Product Code: 32mm | O0013853
- Product Code: 40mm | O0013855
- Product Code: 50mm | O0013851
- Comes complete with arbour and allen key



### PVC GLUE

- Product Code: K0000952
- 200ml PVC weld
- Fast drying, compression strength
- Comes with a brush applicator



### FO128 CLEANER

- Product Code: 5L | L0001339
- Product Code: 20L | L0003803
- Electrical cleaning solvent for motor and electrical equipment
- Medium drying time
- High flash point
- Low toxicity



### FINE ORGANICS DEGREASER CLEANER

- Product Code: L0019458
- 500ml aerosol can



### 4 PACK DUST MASKS

- Product Code: O0001888
- Supplier Code: FFP1
- Light sealed, latex free and high filter efficiency
- Dust or pollen protection
- Filter out bacteria and viruses



### WACO DISPOSABLE DUST MASKS

- Product Code: FFP1 | P0000297
- Product Code: FFP2 | P0000316
- Meets compulsory safety standards
- Durable with low breathing resistance
- EN1492001



### WACO CABLE JOINT KITS

- Low voltage cable joints
- Epoxy resins
- IEC/SANS approved

Product Code	Supplier Code	Size (mm)
H0000287	GPJ0	1.5 - 4
H0000288	GPJ1	4.0 - 10
H0000289	GPJ2	10 - 16
H0000290	GPJ2H	10 - 16
H0000291	GPJ3	35 - 50
H0000292	GPJ3H	50 - 95
H0000293	GPJ4	95 - 150
H0000294	GPJ5	150 - 240



### SCOTCH 23 SELF-FUSING RUBBER TAPE

Product Code	Description	Thickness (mm)	Temperature Rating (°C)	Application	Size
H0000472	High and low voltage insulation, self-fusing rubber tape.	0.76	Continuous: 90 Short term: 130	Primary electrical insulation for splicing cable from 600V to 69kV on all solid dielectric cables.	18mm x 9m
H0004081					25mm x 9m



### SCOTCH 27 GLASS CLOTH TAPE

Product Code	Description	Thickness (mm)	Temperature Rating (°C)	Application	Size
H0001306	Woven insulating glass cloth. High temperature resistance. High mechanical strength. UL recognised.	0.18	27 is Class B temp 130	Heat-stable insulation for furnace and oven controls, motor leads and switches.	12mm x 20m
H0001307					19mm x 20m



### SCOTCH® SUPER 33+ PREMIUM VINYL ELECTRICAL TAPE

Product Code	Description	Thickness (mm)	Temperature Rating (°C)	Application	Size
H0001420	Highly conformable in all weather applications. Resists UV rays, abrasion, corrosion, alkalis and acids. Flame retardant UL listed. CSA certified.	0.18	105	Primary insulation for splices up to 600V. Protective jacketing.	19mm x 20m



### SCOTCH 35 COLOUR CODING TAPE

Product Code	Description	Thickness (mm)	Temperature Rating (°C)	Application	Size
H0000477	9 fade resistant colours, excellent insulating properties. Resists UV rays, abrasion, corrosion, alkalis and acids.	0.18	105	Phase identification and marking. Insulating electrical wiring.	19mm x 20m
H0000478					
H0000479					
H0000480					
H0000481					

# GENERAL PRODUCTS

## CONTRACTING ITEMS

### 3M



### SCOTCH 1710 VINYL ELECTRICAL TAPE

Product Code	Description	Thickness (mm)	Temperature Rating (°C)	Application	Size
H0001202	A good quality electrical vinyl insulating tape. Flame retardant. SABSI22 specified.	0.18	80	Excellent resistance to abrasion, moisture, alkalis, acid and varying weather conditions.	18mm x 20m
H0001203					
H0001204					
H0001205					
H0001206					
H0001207					

### Nitto



### INSULATION TAPE NITTO 21

Product Code	Thickness (mm)	Width (mm)	Length (m)
Heavy Duty			
H0000459	0.2	18	20
H0000458			
H0000457			
H0000462			
H0000456			
H0000460			



### INSULATION TAPE NITTO 2107

Product Code	Thickness (mm)	Width (mm)	Length (m)
Light Duty			
H0014411	0.13	19	20
H0014410			
H0014409			
H0014413			
H0014408			
H0014412			



### LINE TAPS

Product Code	Supplier Code	Size (mm)
H0000296	M08	2 x 10
H0000297	M06	2 x 16
H0000298	M04	2 x 25
H0000299	M02	2 x 35
H0000301	M00	2 x 50
H0000302	M03	2 x 70
H0002854	M0100	2 x 100
H0002855	M05	2 x 150



### CO-AX CABLE

Product Code: F0003094

- 75 OHMs
- 100m coil



### PORCELAIN SCRUIITS

Product Code	Description
H0000097	Midget up tp 4mm
H0000099	Normal up to 10mm



### ROUND CABLE CLIPS

Product Code		Size (mm)
White	Black	
K0000809		3
K0000810		4
K0000811		5
K0000812		6
K0000813		7
K0000815	K0000814	8
K0000817	K0000816	9
K0000819	K0000818	10
K0000399	K0000820	11
K0000823	K0000822	12
K0000824		14
K0000025		20
K0000825		22



### FLAT CABLE CLIPS

Product Code	Size (mm)
White	
K0000804	5
K0000805	8.5
K0000487	10.5
K0000488	12.5
K0000808	14.5

# GENERAL PRODUCTS

## WIRE AND WIRING ACCESSORIES



### PORCELAIN CONNECTORS

Product Code	Supplier Code	Description
H0000079	C402	6A 2-way CFH
H0000081	C404	15A 2-way CFH
H0000082	C406	30A 2-way CFH
H0000084	C403	6A 3-way CFH
H0000086	C405	15A 3-way CFH
H0000087	C407	30A 3-way CFH



### PVC GLANDS

Product Code	Size	Type	Colour
H0000960	Gland 00/0/1	Screw-in	White
H0000961	Gland 00/0/1	Screw-in	Black
H0001116	Gland 00/0/1	Push-in	White
H0000263	Gland PVC 0	Screw-in	White
H0000265	Gland PVC 1	Screw-in	White
H0000918	Gland PVC 2	Screw-in	White



### TUBULAR CABLE LUGS

- Complies with SANS 61238 - 1: 1993
- Part A and the relevant certificate report is freely available on request



Product Code	Supplier Code	Size (mm)
H0002551	2622	1.5 x 4
H0002552	2623	1.5 x 5
H0002553	2624	1.5 x 6
H0002554	2625	2.5 x 4
H0002555	2626	2.5 x 5
H0002556	2628	2.5 x 6
H0002557	2629	2.5 x 8
H0002558	2629E10	2.5 x 10
H0002559	2630	4 x 4
H0002560	2632	4 x 5
H0002561	2631	4 x 6
H0002562	2633	4 x 8
H0002563	2633E10	4 x 10
H0002564	2634-4	6 x 4
H0002565	2634	6 x 5
H0002566	2635	6 x 6
H0002567	2637	6 x 8
H0002568	2642	10 x 5
H0002569	2643	10 x 6
H0002570	2645	10 x 8
H0002571	2648	10 x 10
H0002572	2161	10 x 12
H0002574	2652	16 x 5
H0002575	2653	16 x 6
H0002576	2655	16 x 8
H0002577	2658	16 x 10
H0002578	2659	16 x 12
H0002579	2004	16 x 16
H0002581	2663	25 x 6
H0002582	2666	25 x 8
H0002583	2668	25 x 10
H0002584	2670	25 x 12

Product Code	Supplier Code	Size (mm)
H0002585	2673	35 x 6
H0002586	2676	35 x 8
H0002587	2680	35 x 10
H0002588	2683	35 x 12
H0002589	2006	35 x 16
H0002590	2687	50 x 6
H0002591	2689	50 x 8
H0002592	2691	50 x 10
H0002593	2693	50 x 12
H0002594	2007	50 x 16
H0002596	2697	70 x 6
H0002597	2698	70 x 8
H0002598	2699	70 x 10
H0002599	2700	70 x 12
H0001342	2705	70 x 16
H0002600	2129	70 x 20
H0002601	2708	95 x 8
H0002602	2709	95 x 10
H0002603	2712	95 x 12
H0002604	2715	95 x 16
H0002606	2717	120 x 10
H0002607	2719	120 x 12
H0002608	2722	120 x 16
H0002609	2727	150 x 10
H0002610	2729	150 x 12
H0001343	2733	150 x 16
H0002611	2736	185 x 10
H0002612	2737	185 x 12
H0002613	2741	185 x 16
H0002614	2747	240 x 10
H0002615	2748	240 x 12
H0002616	2750	240 x 16
H0002617	2751	240 x 20
H0002618	2754	300 x 12
H0002619	2757	300 x 20
H0002620	2759	400 Blank

# GENERAL PRODUCTS

## WIRE AND WIRING ACCESSORIES



### FERRULES/CONNECTORS

- Complies with SABS 1238
- Part A and the relevant test report is freely available on request

Product Code	Supplier Code	Size (mm)
H0002514	2802	1.5
H0002515	2804	2.5
H0002516	2806	4.0
H0002517	2808	6.0
H0002518	2810	10.0
H0002519	2812	16.0
H0002520	2817	25.0
H0002521	2820	35.0
H0002522	2823	50.0
H0002523	2826	70.0
H0002524	2828	95.0
H0002525	2830	120.0
H0002526	2833	150.0
H0002527	2836	185.0
H0002528	2838	240.0
H0002529	2841	300.0



### ROOF CONNECTOR BOX

**Product Code: H0010781**

- For overhead single phase service
- Aluminium house internal diameter: 84mm
- Internal height: 37mm
- Outer height: 40mm
- Bottom: 3mm thick
- Main threading on the spout: 25mm
- Screws on the house cover: M5
- Steel washer, steel hexagon locknut and rubber connectors with inside diameter 25mm on aluminium stick



### CONNECTOR STRIPS

Product Code	Supplier Code	Ways	Colour	Amps
H0002490	EKL 0S	12	White	3
H0002489	EKL 0S	12	Black	3
H0002497	EKL 1S	12	White	6
H0002496	EKL 1S	12	Black	6
H0002503	EKL 2S	12	Black	16
H0002506	EKL 3S	12	White	32
H0002505	EKL 3S	12	Black	32
H0002507	EKL 4BE	12	Black	63



### NEUTRAL BRASS BARS

Product Code	Description
C0001235	1m Double Brass
C0001236	1m Single Brass
C0001237	Universal Bar Support



### GEL JOINT KITS

Product Code: Black | H0001458

Product Code: White | H0001459

Product Code: Red | H0002228

Product Code: Yellow | H0002229

- For ripcord and cabtyre joints



### 3M CABLE JOINT KITS

Product Code	Supplier Code	Size (mm)
H0000277	82 - A1	2.5 - 4
H0000278	82 - A2	6 - 16
H0000279	82 - A3	16 - 25
H0000280	91 - A1	4 - 10
H0000281	91 - A2	16 - 25
H0000282	91 - A3	35 - 50
H0000283	91 - A4	70
H0003105	91 - A4.5	95
H0000284	91 - A5	120 - 150
H0000285	91 - A6	185 - 240
Product Code	Supplier Code	Size (cm <sup>3</sup> )
H0002810	4SA A	90
H0000276	4SA B	209
H0003189	4SA C	418

# GENERAL PRODUCTS

## WIRE AND WIRING ACCESSORIES



### NEOPRENE SHROUD - SHORT

Product Code	Supplier Code	Size
H0000416	1521-0	0 - M20
H0000417	152101	1 - M20
H0000418	152102	2 - M25
H0000419	152103	3 - M32
H0000420	152104	4 - M40
H0000421	152105	5 - M50
H0000422	152106	6 - M63
H0000423	152107	7 - M75



### PVC SHROUD - SHORT

Product Code	Supplier Code	Size
H0000428	1522-0	0 - M20
H0000429	152201	1 - M20
H0000430	152202	2 - M25
H0000431	152203	3 - M32
H0000432	152204	4 - M40
H0000433	152205	5 - M50
H0000434	152206	6 - M63
H0000435	152207	7 - M75
H0000436	152208	8 - M80
H0000437	152209	9 - M90
H0000438	152210	10 - M100



### PVC SHROUD - LONG

Product Code	Supplier Code	Size
H0000424	1525-0	0 - M20
H0000425	152501	1 - M20
H0000426	152502	2 - M25
H0000427	152503	3 - M32
H0002895	152504	4 - M40
H0003217	152505	5 - M50
H0002623	152508	8 - M82



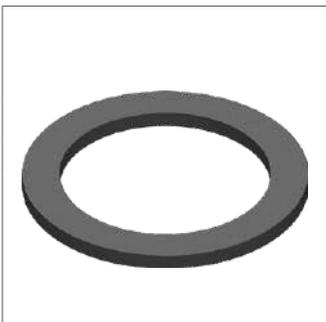
### SLIP ON EARTH TAGS

Product Code	Supplier Code	Size	Max 'A'
H0000104	6220-1	0/1 - M20	7mm
H0000105	622902	2 - M25	7mm
H0000106	622903	3 - M32	12mm
H0000107	622904	4 - M40	12mm
H0000108	622905	5 - M50	12mm
H0000109	622906	6 - M63	12mm
H0000110	622907	7 - M75	12mm



### BRASS LOCKNUTS

Product Code	Supplier Code	Size	Max 'A'
K0000287	300901	0/1 - M20	20mm
K0000288	300902	2 - M25	25mm
K0000289	300903	3 - M32	32mm
K0000290	300904	4 - M40	40mm
K0000291	300905	5 - M50	50mm
K0000292	300906	6 - M63	63mm
K0000293	300907	7 - M75	75mm
K0000833	300908	8 - M82	82mm



### SEALING GASKETS

Product Code	Supplier Code	Size
H0000899	805520	0/1 - M20
H0000900	805525	2 - M25
H0002531	805532	3 - M32
H0002532	805540	4 - M40
H0002533	805550	5 - M50
H0002534	805563	6 - M63

# GENERAL PRODUCTS

## WIRE AND WIRING ACCESSORIES



### CCG BW CAPTIVE CONE GLAND™ (FOR SWA AND ALUMINIUM ARMOUR CABLE)

Product Code	Supplier Code	Size
H0000178	0503-0	0 - 20s
H0000179	050301	1 - 20
H0000181	050302	2 - 25
H0000182	050303	3 - 32
H0000183	050304	4 - 40
H0000184	050305	5 - 50
H0000185	050306	6 - 63
H0000186	050307	7 - 75
H0000187	050308	8 - 80
H0000188	050309	9 - 90
H0000180	050310	10 - 100



### A2 COMPRESSION GLAND (FOR UNARMoured CABLE)

Product Code	Supplier Code	Size
H0000197	0535-0	0 - 20s
H0000198	053500	00 - 20ss
H0000199	053501	1 - 20
H0000200	053502	2 - 25
H0000201	053503	3 - 32
H0000202	053504	4 - 40
H0000203	053505	5 - 50
H0000204	053506	6 - 63
H0000205	053507	7 - 75
H0000206	053508	8 - 80
H0000207	053509	9 - 90



### IPLUS™ CORROSION GUARD CAPTIVE COMPONENT GLAND (FOR STEEL WIRE ARMOUR CABLE)

Product Code	Supplier Code	Size
H0002094	0546-0-IP	0 - 20s
H0002095	054601-IP	1 - 20
H0002096	054602-IP	2 - 25
H0002097	054603-IP	3 - 32
H0002098	054604-IP	4 - 40
H0002099	054605-IP	5 - 50
H0004241	054606-IP	6 - 63
H0004242	054607-IP	7 - 75

**Note** Sizes 9 and 10 available on request



### POSI-FLEX™ CORROSION COMPRESSION GLAND™ (FOR UNARMOURED CABLE)

Product Code	Supplier Code	Size
H0000378	053800	00 - 20ss
H0000377	0538-0	0 - 20s
H0000379	053801	1 - 20
H0000380	053802	2 - 25
H0000381	053803	3 - 32
H0000382	053804	4 - 40



### D1W CAPTIVE COMPONENT GLAND™ (FOR STEEL WIRE ARMoured CABLE)

Product Code	Supplier Code	Size
H0004246	0520-0	0 - 20s
H0003228	052001	1 - 20
H0003229	052002	2 - 25
H0003230	052003	3 - 32
H0003231	052004	4 - 40
H0003232	052005	5 - 50
H0003233	052006	6 - 63
H0002540	052007	7 - 75
H0004248	052008	8 - 80



### FLP CAPTIVE COMPONENT GLAND™ (FOR STEEL WIRE ARMoured CABLE) "Ex db I/IIC, Ex eb I/IIC, Ex tb IIIC, Ex nR IIC"

Product Code	Supplier Code	Size	Cable Details (Diameter)	
			Max 'A'	Max 'B'
H0000217	0521-0	0 - 20s	11.5	16.0
H0000218	052101	1 - 20	14.0	19.0
H0000219	052102	2 - 25	20.2	26.5
H0000220	052103	3 - 32	26.5	33.0
H0000221	052104	4 - 40	34.0	40.5
H0000222	052105	5 - 50	44.5	52.0
H0000223	052106	6 - 63	56.0	67.0

**Note** Sizes 00 and 7 available on request

# GENERAL PRODUCTS

## WIRE AND WIRING ACCESSORIES



### FLP TR COMPRESSION GLAND (FOR UNARMOURED CABLE) "Ex db I/IIC, Ex eb I/IIC, Ex tb IIIC, Ex nR IIC"

Product Code	Supplier Code	Size	Cable Details (Diameter)	
			Max 'A'	Max 'B'
H0000244	052400	00 - 20ss	3.0	57
H0000243	0524-0	0 - 20s	8.0	57
H0000245	052401	1 - 20	11.5	59
H0000246	052402	2 - 25	14	71
H0000247	052403	3 - 32	20.0	87
H0000248	052404	4 - 40	26.5	96
H0000249	052405	5 - 50	38.0	112
H0000250	052406	6 - 63	50.0	124
H0002547	052407	7 - 75	TBA	TBA



### FLP HOSE (COMPRESSION GLAND FOR UNARMOURED CABLE) "Ex db I/IIC, Ex eb I/IIC, Ex tb IIIC, Ex nR IIC"

Product Code	Supplier Code	Size	Cable Details (Diameter)	
			Max 'A'	Max 'B'
H0000241	0527-0	00 - 20s	8.0	11.5
H0003094	052701	1 - 20	11.0	14.5
H0000242	052702	2 - 25	14.0	20.2
H0002544	052703	3 - 32	20.0	26.5
H0002545	052704	4 - 40	26.5	34.0
H0002546	052705	5 - 50	TBA	TBA



### A2EX COMPRESSION GLAND FOR UNARMOURED CABLE "Ex db IIC, Ex eb IIC, Ex tb IIIC, Ex nR IIC"

Product Code	Supplier Code	Size
H0000172	053600	00 - 20ss
H0000171	0536-0	0 - 20s
H0000173	053601	1 - 20
H0000174	053602	2 - 25
H0000175	053603	3 - 32
H0000176	053604	4 - 40
H0000177	053605	5 - 50
H0002721	053606	6 - 63
H0002722	053607	7 - 75



### EX CORROSION GUARD CABLE GLAND NO LOCKNUT (FOR STEEL AND ALUMINIUM ARMoured CABLE) "Ex db IIC, Ex eb IIC, Ex tb IIIC, Ex nR IIC"

Product Code	Supplier Code	Size	Cable Details (Diameter)	
			Max 'A'	Max 'B'
H0000209	0547-0	0 - 20s	12.0	16.0
H0000210	054701	1 - 20	15.0	20.5
H0000211	054702	2 - 25	20.0	26.5
H0000212	054703	3 - 32	26.5	33.5
H0000213	054704	4 - 40	34.0	42.5
H0000214	054705	5 - 50	44.5	52.5
H0000215	054706	6 - 63	56.5	65.5
H0000216	054707	7 - 75	67.5	78.0

**Note** Available including and excluding locknut



### POSI GRIP™ COMPRESSION GLAND NO LOCKNUT (FOR UNARMoured CABLE) "Ex db IIC, Ex eb IIC, Ex tb IIIC, Ex nR IIC"

Product Code	Supplier Code	Size	Cable Details (Diameter)	
			Max 'A'	Max 'B'
H0000225	054500	00 - 20ss	3.0	8.5
H0000224	0545-0	0 - 20s	7.0	12.0
H0000226	054501	1 - 20	9.0	15.0
H0000227	054502	2 - 25	14.0	20.0
H0000228	054503	3 - 32	19.0	26.5
H0000229	054504	4 - 40	26.0	34.0
H0000230	054505	5 - 50	34.0	44.5
H0000231	054506	6 - 63	44.0	56.5
H0000232	054507	7 - 75	56.0	67.5

**Note** Available including and excluding locknut  
Sizes 8 and 9 available on request

# GENERAL PRODUCTS

## WIRE AND WIRING ACCESSORIES



### HANDI FIT™ 4-WAY JUNCTION BOX (FOR GENERAL INDUSTRIAL AND MINING ELECTRICAL INSTALLATIONS) "IP66/68"

Product Code	Supplier Code	Size
H0000058	0650-0	0 - M20
H0000059	065001	1 - M20
H0000060	065002	2 - M25
H0000061	065003	3 - M32

**Note** Available empty or with C/W terminals



### HANDI FIT™ Y JUNCTION BOX (FOR GENERAL INDUSTRIAL AND MINING ELECTRICAL INSTALLATIONS) "IP66/68"

Product Code	Supplier Code	Size
H0004279	0651-0	0 - M20
H0000055	065101	1 - M20
H0002485	065102	2 - M25
H0000057	065103	3 - M32

**Note** Available empty or with C/W terminals



### UTILITY™ JUNCTION BOX (FOR GENERAL INDUSTRIAL ELECTRICAL INSTALLATIONS) "IP66/68"

Product Code	Supplier Code	Size
H0000063	102101	0/1 - M20
H0000064	102102	2 - M25

**Note** Available empty or with C/W terminals



### FOUNDATION BOX (MUNICIPAL CONNECTION)

Product Code	Supplier Code	Size
H0002821	102401	0/1 - M20
H0003241	102402	2 - M25

**Note** Available empty or with C/W terminals



### ROOF JUNCTION BOX (FOR GENERAL INDUSTRIAL ELECTRICAL INSTALLATIONS) "IP66/68"

Product Code	Supplier Code	Size
H0002252	102700	0 - M20



### POSI FIT™ 4 WAY JUNCTION BOX EXE (FOR HAZARDOUS INSTALLATIONS) "Ex e IIC, Ex nA IIC, Ex t IIIC, IP66/68"

Product Code	Supplier Code	Size
H0000046	1003-0	0 - M20
H0000049	100301	1 - M20
H0000053	100302	2 - M25
H0000054	100303	3 - M32



### POSI FIT™ Y JUNCTION BOX (FOR HAZARDOUS INSTALLATIONS) "Ex e IIC, Ex nA IIC, Ex t IIIC, IP66/68"

Product Code	Supplier Code	Size
H0001425	1009-0	0 - M20
H0002732	100901	1 - M20
H0002483	100902	2 - M25
H0002484	100903	3 - M32

# GENERAL PRODUCTS

## WIRE AND WIRING ACCESSORIES



### REDUCERS



Product Code	Supplier Code	Metric Male Thread 'A'	Metric Female Thread 'B'
<b>Standard Reducers - Metric</b>			
H0000390	RM025M020S	M25	M20
H0000393	RM032M020S	M32	
H0001773	RM032M025S		M25
H0000396	RM040M020S	M40	M20
H0000398	RM040M025S		M25
H0000400	RM040M032S		M32
H0000402	RM050M020S	M50	M20
H0000404	RM050M025S		M25
H0000406	RM050M032S		M32
H0000408	RM050M040S		M40
H0000410	RM063M032S	M63	M32
H0000412	RM063M040S		M40
H0000414	RM063M050S		M50
<b>Ex Reducers - Metric</b>			
H0000391	RM025M020E	M25	M20
H0000394	RM032M020E	M32	
H0000395	RM032M025E		M25
H0000397	RM040M020E	M40	M20
H0000399	RM040M025E		M25
H0000401	RM040M032E		M32
H0000403	RM050M020E	M50	M20
H0000405	RM050M025E		M25
H0000407	RM050M032E		M32
H0000409	RM050M040E		M40
H0000411	RM063M032E	M63	M32
H0000413	RM063M040E		M40
H0000415	RM063M050E		M50



### ADAPTORS

Product Code	Supplier Code	Metric Male Thread 'A'	Metric Female Thread 'B'
<b>Standard Adaptors - Metric</b>			
H0010168	AM020M025S	M20	M25
H0002477	AM025M032S	M25	M32
H0010169	AM032M040S	M32	M40
H0010170	AM040M050S	M40	M50
<b>Ex Adaptors - Metric</b>			
H0000037	AM020M025E	M20	M25
H0002475	AM025M032E	M25	M32
H0010173	AM032M040E	M32	M40
H0002166	AM040M050E	M40	M50
H0010174	AM050M063E	M50	M63

## SOUND EQUIPMENT



### BELLS AND CHIMES



#### WIRELESS DOOR CHIME

**Product Code: L0002715**

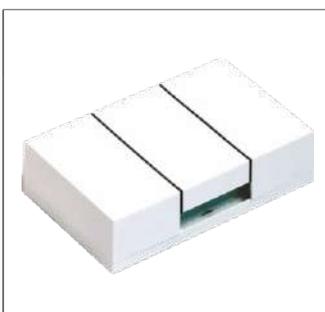
- Supplier Code: WA-638
- Battery operated
- 100m operating range
- 32 chimes and 24 polyphonic chimes
- LED indicators for the transmitter and receiver
- Receiver with built-in volume setting
- Waterproof transmitter requires 1x 12V 23A battery (supplied)
- Receiver unit requires 3x 1.5V AA batteries (not supplied)



#### WACO CHIME FACET

**Product Code: L0000749**

- Supplier Code: D107
- 4x R14/C batteries
- 753 or 780 transformer
- 80dB @ 1m



#### WACO CHIME DING DONG

**Product Code: L0000748**

- Supplier Code: D117
- 80dB @ 1m



#### WACO WIRELESS CHIME

**Product Code: L0000735**

- Supplier Code: S128B
- Ding dong sound
- Open straight line distance 100m
- DIY kit with square bell push

# GENERAL PRODUCTS

## SOUND EQUIPMENT



### BELLS AND CHIMES



#### UNDERDOME BELL

**Product Code: L0000736**

- Supplier Code: D792
- 85dB @ 1m 8VAC
- Dimensions: 73 x 36mm



#### MINI BUZZER

**Product Code: L0000745**

- Supplier Code: D182
- 80dB @ 1m 8VAC
- Dimensions: 51 x 36mm

### BELLS AND PUSHES



#### DIMEX

**Product Code: L0000740**

- Supplier Code: D824
- Black



#### WACO CORAL

**Product Code: L0000739**

- Supplier Code: W0S1A01
- White

### BELL TRANSFORMERS



#### BELL TRANSFORMER

**Product Code: L0000892**

- 4V, 8V and 12V from 230V 1 AMP

### SCHOOL / FIRE BELL



#### CORONA SCHOOL / FIRE BELL

- Rating: IP44

Product Code	Supplier Code	Diameter (mm)	Diameter (Inches)	Voltage
L0000731	CB4	100	4	240V AC
L0000732	CB6	150	6	240V AC
L0000733	CB10	250	10	240V AC



SIRENS



### SIRENCO SIREN 500SI

- 500m range
- Protection rating: IP45
- Duty cycle: 5 min on - 15 min off
- UV polycarbonate body

Product Code	Supplier Code	Voltage
L0005579	SL05012	12V
L0003921	SL05024	24V
L0001725	SL05110	110V
L0001419	SL05220	220V

## BANSHEE



### BANSHEE MONO S SIREN

- Robust aluminum die-cast body and brush motor with roller bearing
- 1000m range with sound frequency of 950 - 1200Hz
- Protection rating: IP65
- Duty cycle: continuous

Product Code	Supplier Code	Voltage
L0021918	BMMS012	12V
L0021919	BMMS024	24V
L0021920	BMM5110	110V
L0021921	BMMS220	220V



### BANSHEE DUPLO S SIREN

- Robust aluminum die-cast body
- 1500m range with sound frequency of 950 - 1600Hz
- AC or DC
- Protection rating: IP65
- Duty cycle: continuous

Product Code	Supplier Code	Voltage
L0021916	BMDS110	110V
L0021917	BMDS220	220V



### SIRENCO H200

- Hand operated
- 2000m range
- Robust aluminium die-cast body

Product Code	Supplier Code
L0002514	SSH200C

# GENERAL PRODUCTS

## SOUND EQUIPMENT



### SIRENS



#### SIRENCO 2D

- 2000m range
- Protection rating: IP65
- Duty cycle: continuous
- Robust aluminium die-cast body

Product Code	Supplier Code	Voltage
L0019677	SM20110	110V
L0001806	SM20220	220V



#### SIRENCO 3LF

- 3000m range
- Protection rating: IP55 / IP65 available on request
- Duty cycle: continuous
- Robust aluminium die-cast body

Product Code	Supplier Code	Voltage
L0002769	SM3LF22	220V
-	SM30380	380V
-	SM30525	525V



#### SIRENCO 5S

- 5000m range
- Protection rating: IP55 / IP65 available on request
- Duty cycle: continuous
- Robust aluminium die-cast body

Product Code	Supplier Code	Voltage
L0002771	SML0522	220V
L0002772	SML0538	380V
-	SML0552	525V



#### SIRENCO 10S

- 10 000m range
- Protection rating: IP55 / IP65 available on request
- Duty cycle: continuous
- Robust aluminium die-cast body

Product Code	Supplier Code	Voltage
L0003369	SML1238	380V
-	SML1252	525V

**Note** Items above with (-) in the Product Code column are available on special request.

## SOUND EQUIPMENT



### SIRENS



#### SIRENCO 15D

- 15 000m range
- Protection rating: IP55 / IP65 available on request
- Duty cycle: continuous
- Robust aluminium die-cast body

Product Code	Supplier Code	Voltage
L0003370	SML1538	380V
-	SML1552	525V

## SECURITY



#### 4 CHANNEL 4 CAMERA



##### Product Code: Q0010241

- Resolution: 1280 x 960 (960P)
- 1 Terabyte hard drive
- Remote viewing: C-CMS, smart phone surveillance and IE browser
- Recording mode: motion detection, schedule and full day recording
- Day and night: auto, CR
- Motion detection: support
- Mobile phone surveillance: support
- PTZ control: support
- Video system: PAL/NTSC
- ONVIF: support
- Alarm: optional
- Network interface: 1 RJ-45 10/100Mbps ethernet connector
- Backup device: SB flash drive/USB hard disk/USB DVD R/W AHD network backup

## MOTION SENSORS

#### MOTION SENSOR



##### Product Code: L0002703

- Supplier Code: ES152
- 240° heavy duty motion sensor
- Lighting load: maximum 2000W
- Built - in LED for indication
- Clip - on lens shroud to set detecting coverage
- On/Off Manual Override
- Wall, ceiling or corner mount
- Patented inner/outer corner mount bracket IP55
- Indoor/outdoor application

#### 180° MOTION SENSOR



##### Product Code: L0002704

- Supplier Code: ES34T
- Detection distance: 12m maximum
- Lighting load: maximum 1000W
- On/Off Manual Override
- Built - in LED for indication
- Wall or ceiling mount
- IP44 - indoor or outdoor application

**Note** Items above with (-) in the Product Code column are available on special request.



### MOTION SENSORS



#### INFRARED 180° MOTION SENSOR

**Product Code: J0008238**

- Supplier Code: ST09
- Detection distance: 12m maximum
- Time delay: 10 sec - 7 min (adjustable)
- Ambient light: 3 - 2000 lux (adjustable)
- Installation height: 1.8m - 2.5m
- Suitable for wall mounting
- 1000W



#### INFRARED 350° OCCUPANCY SENSOR

**Product Code: J0008239**

- Supplier Code: ST41
- Detection distance: 6m maximum
- Time delay: 10 sec - 7 min (adjustable)
- Ambient light: 3 - 2000 lux (adjustable)
- Installation height: 2.2m - 4m
- Suitable for ceiling mounting
- 1000W



#### TWIN SPOTLIGHT WITH MOTION SENSOR

**Product Code: J0008242**

- Supplier Code: ST65/BL
- Detection distance: 5 - 12m
- Detection range: 180°
- Time delay: 10 sec - 7 min (adjustable)
- Lamps: 2x 150W PAR38
- Installation height: 1.8m - 2.5m
- Lamps not included



#### 2 x 10W LED SENSOR SPOTLIGHT

**Product Code: J0070946**

- Watt: 2 x 10W
- Voltage: 220-240V
- Colour: Black
- Dimensions: 200 x 120 x 175mm
- Sensing Distance: 12m
- Sensing Angle: 110°
- Time Adjustment: 5secs-12mins
- Material: Aluminium body and glass diffuser
- CRI: 80
- Lumen: 1800lm
- Beam Angle: 120°
- IP54
- Driver integrated
- Safety glass cover
- With 2 x 14pcs LED (2 x 10W)
- With sensor



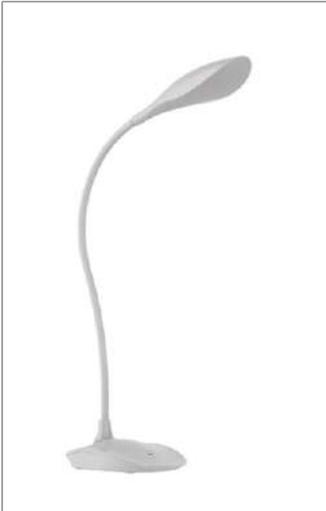
#### EVERSPRING 360° MOTION SENSOR

**Product Code: L0000628**

- Supplier Code: UE203
- Power requirement: AC 220 ~ 240V/50Hz
- Operating load (maximum): 2000W incandescent or 1000W fluorescent
- Detection angle: Up to 360° at 250
- Detection range (micro motion): 3m radius (height: 2.5m)
- Detection range (walk across motion): 6m radius (height: 2.5m)
- Mounting height: recommended 2.5~3.5m ceiling mount
- IR controller: channel 1 and 2 (selectable, but need to match the channel selection at sensor unit)
- Auto/On/Off
- IR controller range: 8m open space
- IR controller battery: Alkaline 23A 12V
- Power switch control: On/Off (S1, S3)
- Pulse switch control: On/Off (S2, S4)
- Time adjustment: adjustable 5 seconds - 12 minutes
- Lux adjustment: approx. 30 - 200 Lux
- Lux memory: yes
- Warm up time: about 1 minute
- Protection class: Class II



### RECHARGEABLE LED LIGHTS



#### RECHARGEABLE DESK LIGHT

**Product Code: J0016591**

- Supplier Code: KN-L8837LA
- Wattage: 9W LED
- Voltage: 3.7V
- Dimensions: 127 x 100 x 422mm
- Charging time: 6-8hrs
- Duration: 4hrs (strong brightness)  
10hrs (medium brightness)  
30hrs (dimmed brightness)

Specifications:

- 3.7V 1200mAh lithium battery
- Charge indication
- Overcharge protection
- Three types of dimmable light to choose from
- Touch panel
- AC/DC operated



#### LED RECHARGEABLE TORCH

**Product Code: O0001999**

- Supplier Code: KN9303L
- 5W
- Comes with durable handle, carry loop and adjustable stand

### DAYLITE SWITCHES



#### NATIONAL NS216 DAYLITE SWITCH

**K8 Product Code: J0016593**

- Supplier Code: NS216
- Current rating: 16A 200 - 250V
- Ultra violet stabilised materials
- Fail-safe position "ON"
- Capacity switching - incandescent or fluorescent 2.2kW HID 1.8W
- Moisture rating IP54
- Metal mounting bracket wired entry



#### NATIONAL NS316 DAYLITE SWITCH

**Product Code: J0002931**

- Supplier Code: NS316
- Current rating: 16A 200 - 250V
- Ultra violet stabilised materials
- Fail-safe position "ON"
- Capacity switching - incandescent or fluorescent 2.2kW HID 1.8W
- Moisture rating IP54
- Modular unit which can be fitted inside light fittings or DB boxes



#### ROYCE DAYLITE SWITCH + BASE

**Product Code: J0016597**



#### WACO AR10 AND AR20 DAYLITE SWITCH

- Voltage: 90 - 250V
- Frequency: 50/60Hz
- Rated current resistive: 16A
- Rated current inductive: 10A and 16A

Product Code	Supplier Code	AMP
A0002945	AR10	10
J0016605	AR20	16

# GENERAL PRODUCTS

## SECURITY



### DAYLITE SWITCHES



#### WACO BLUE

**Product Code: J0003178**

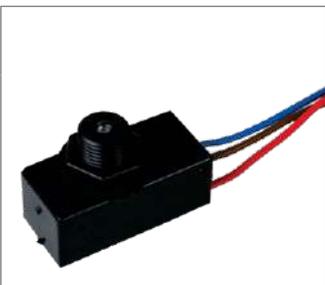
- Supplier Code: LS-20C
- Conduit entry 20mm
- Relay time normally closed contact
- UV stabilised IP54
- Current rating: 16A 250V
- Switching level On  $\pm$  60 lux
- Switching level Off  $\pm$  90 lux
- Switching delay 20 - 30 sec



#### WACO DAYLIGHT SWITCH GREEN

**Product Code: J0067066**

- 16 AMP



#### WACO P16 TWILITE SWITCH

**Product Code: J0014010**

- Supplier Code: P16
- Capacity rating 1400W HID 250V AC
- Ideal mounting in light fittings or conduit box
- 16mm male sensor with locknuts



#### WACO LR100 DAYLITE SWITCH

**Product Code: J0002933**

- Supplier Code: LR100
- Voltage: 180 - 250V
- Frequency: 50/60Hz
- Rated current resistive: 200W
- Rated current inductive: 60W



#### WACO LS30C DAYLITE SWITCH

**Product Code: J0002937**

- Supplier Code: LS-30C
- Heavy duty blue 25A



#### NATIONAL NS116 DAYLITE SWITCH

**Product Code: J0002930**

- Supplier Code: NS116
- Current rating: 16A 200 - 250V
- Ultra violet stabilised materials
- Fail-safe position "ON"
- Capacity switching - incandescent or fluorescent 2.2kW HID 1.8W
- Moisture rating IP54
- Conduit entry with wall bracket mounting



#### ROYCE THOMPSON

**Product Code: J0016596**

- Plug-in Nema twist lock type
- Current rating: 1800A 250V
- Moisture rating: IP65
- Thermal switching



#### UNIVERSAL NEMA BASE

**Product Code: J0016591**

- Nema base twist lock ideal for most makes
- Current rating: 16A 250V
- Complete with bracket



### DAYLITE SWITCHES



#### NATIONAL NS416 DAYLITE SWITCH

**Product Code: J0016590**

- Supplier Code: NS416
- Current rating: 16A 200 - 250V
- Ultra violet stabilised materials
- Fail-safe position "ON"
- Capacity switching - incandescent or fluorescent 2.2kW HID 1.8W
- Moisture rating IP54
- Plug-in 3-pin Nema twist lock

### TIMERS



#### WACO POOL TIMER

**Product Code: D0006315**

- Supplier Code: DTD1440
- 220V 50/60Hz
- Frequency >3W
- Induction load 10A
- Motor load 220VAC 1500W
- Minimum setting 15 min units
- Interval 30 min



#### WACO DIGITAL PLUGIN TIMER

**Product Code: E0003301**

- Supplier Code: BND50SAS1
- Plug-in digital 2 pin 24/7
- 16A 230V AC 3000W
- On/Off switch and neon indicator
- Digital setting On/Off or Auto Clock programme



#### WACO MECHANICAL PLUGIN TIMER

**Product Code: E0003307**

- Supplier Code: BNW50AS2
- Weekly 7 day switching
- 16A 230V AC 3000W
- 2 hour interval



#### WACO MECHANICAL PLUGIN TIMER

**Product Code: E0001096**

- Supplier Product Code: BND50AS36
- Daily 24 hour - 15 min switching
- Plug-in 3 - pin
- 16A 230V AC 3500W
- On/Off switch and neon indicator

# GENERAL PRODUCTS

## SECURITY



### TIMERS



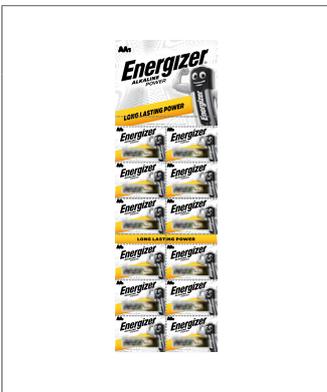
#### WACO 24 HOUR MECHANICAL TIME SWITCH

Product Code: E0003089

- Supplier Code: BND-X5
- 24 hour din rail mechanical timer
- Protection rating: IP20
- 48 On/Off switchings
- On/Timing switch button without indicator
- Time reservation: 100h
- Minimum setting time: 15 min
- Maximum setting time: 24 hours
- 16A, 230V ~ 50Hz
- Size: 39.5 x 35 x 26cm



### ALKALINE BATTERIES



#### ENERGIZER ALKALINE AA STRIP PACK 12'S

Product Code: L0001969

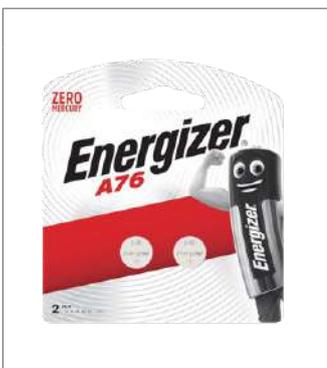
- Supplier Code: E301374300



#### ENERGIZER A23 12 V

Product Code: L0004059

- Supplier Code: A23BP1



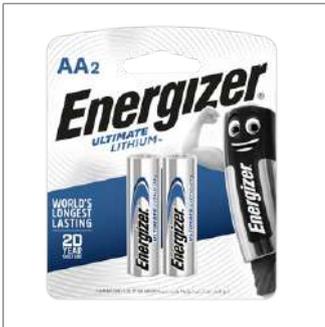
#### ENERGIZER A76

Product Code: L0001965

- Supplier Code: E301641800



### LITHIUM BATTERIES



#### ENERGIZER ULTIMATE LITHIUM AA

Product Code: L0001967

- Supplier Code: XL91BP2-E2



#### ENERGIZER ULTIMATE LITHIUM AAA

Product Code: L0001968

- Supplier Code: XL92BP2-E2



#### ENERGIZER ULTIMATE LITHIUM AA

Product Code: L0011651

- Supplier Code: XL91BP4-E2

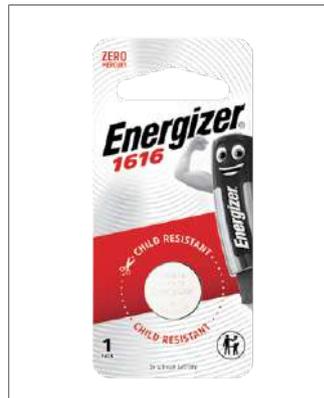
### LITHIUM COIN BATTERIES



#### ENERGIZER 1220

Product Code: L0004060

- Supplier Code: CR1220BS1



#### ENERGIZER 1616

Product Code: L0004061

- Supplier Code: CRC1616BS1

# GENERAL PRODUCTS

## SECURITY

### *Energizer*

#### LITHIUM COIN BATTERIES



#### ENERGIZER 1620

Product Code: L0004062

- Supplier Code: CRC1620BS1



#### ENERGIZER 2032 BP2

Product Code: L0019658

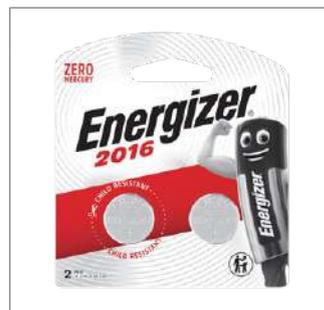
- Supplier Code: E301640800



#### ENERGIZER 2025

Product Code: L0019687

- Supplier Code: E301641200



#### ENERGIZER 2016

Product Code: L0019688

- Supplier Code: E301641500



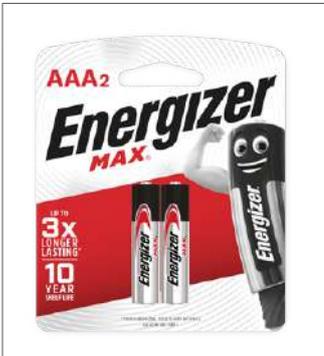
#### ENERGIZER 2032 BP4

Product Code: L0016567

- Supplier Code: CR2032BP4

### *Energizer*

#### MAX BATTERIES



#### ENERGIZER MAX AAA2

Product Code: L0000579

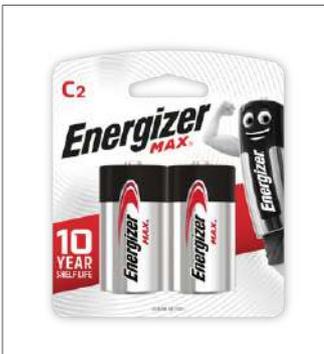
- Supplier Code: E300577401



#### ENERGIZER MAX AAA4

Product Code: L0000580

- Supplier Code: E300577503



#### ENERGIZER MAX C2

Product Code: L0000581

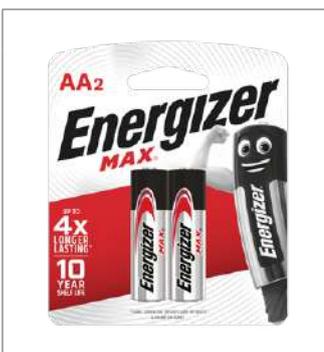
- Supplier Code: E300688801



#### ENERGIZER MAX D2

Product Code: L0000582

- Supplier Code: E300688901



#### ENERGIZER MAX AA2

Product Code: L0000583

- Supplier Code: E300305701



#### ENERGIZER MAX AA4

Product Code: L0000584

- Supplier Code: E300162002



#### ENERGIZER MAX 9V

Product Code: L0000586

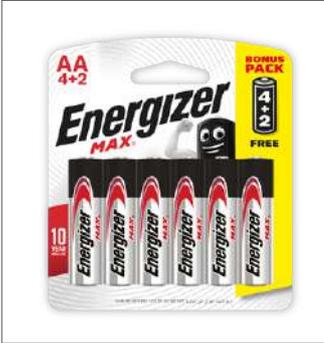
- Supplier Code: E301034402

# GENERAL PRODUCTS

## SECURITY

**Energizer**

### MAX BATTERIES



#### ENERGIZER AA 4+2

Product Code: L0017674

- Supplier Code: E301623400



#### ENERGIZER MAX AAA 4+2

Product Code: L0002210

- Supplier Code: E301623500

### RECHARGE BATTERIES



#### ENERGIZER RECHARGE AA2 POWER PLUS 2000Mah

Product Code: L0001742

- Supplier Code: E300525401



#### ENERGIZER RECHARGE 9V1

Product Code: L0001743

- Supplier Code: NH22NBP1



#### ENERGIZER RECHARGE EXTREME AA4

Product Code: L0001966

- Supplier Code: E300635601



#### ENERGIZER RECHARGE POWER PLUS AAA4

Product Code: L0002701

- Supplier Code: E300635801



### RECHARGE BATTERIES



#### ENERGIZER RECHARGE AAA2

Product Code: L0003944

- Supplier Code: E300525001



#### ENERGIZER CHARGER MINI

Product Code: L0001954

- Supplier Code: E300701400



#### ENERGIZER CHARGER MAXI

Product Code: L0022390

- Supplier Code: E300321201



#### ENERGIZER CHARGE UNIVERSAL

Product Code: L0022529

- Supplier Code: E301335801
- Compatible with AA/AAA/C/D/9V recharge batteries

### LED FLASHLIGHTS PLASTIC



#### ENERGIZER LED 2AA PLASTIC

Product Code: O0002377

- Supplier Code: E300668800



#### ENERGIZER LED 2D

Product Code: O0010709

- Supplier Code: E300667700



#### LED LANTERN

Product Code: O0018777

- Supplier Code: E300668701





### LED FLASHLIGHTS METAL



#### ENERGIZER 2AA METAL LIGHT

Product Code: O0010707

- Supplier Code: E300695900



#### ENERGIZER COMPACT LED METAL LIGHT

Product Code: O0010858

- Supplier Code: E301304000



#### METAL VISION HD PERFORMANCE LIGHT

Product Code: O0018774

- Supplier Code: E300690600



#### METAL VISION HD COMPACT LIGHT

Product Code: O0018776

- Supplier Code: E300691002

### LED FLASHLIGHTS HARD CASE



#### HARD CASE PRO 4AA

Product Code: O0010710

- Supplier Code: E300640500



#### HARD CASE PROFESSIONAL RECHARGEABLE HYBRID SPOTLIGHT

Product Code: O0012063

- Supplier Code: E300668100

# GENERAL PRODUCTS

## SECURITY

**Energizer**

### LED FLASHLIGHTS HEAVY DUTY



#### HARD CASE PIVOT HEAD

Product Code: O0018775

- Supplier Code: E301340800



#### HARD CASE PRO WORK LIGHT

Product Code: O0017009

- Supplier Code: 639825



#### IMPACT RUBBER 2AAA

Product Code: O0001320

- Supplier Code: E300668400



#### IMPACT RUBBER 2AA

Product Code: O0001323

- Supplier Code: E300668300

### LED HEADLIGHTS



#### ENERGIZER VISION HEADLIGHT

Product Code: O0012055

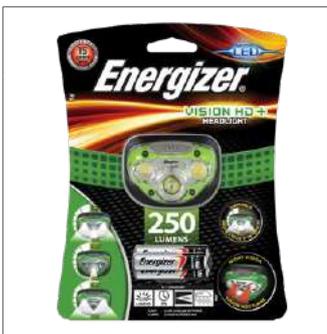
- Supplier Code: E300280300



#### ENERGIZER VISION HD HEADLIGHT

Product Code: O0012056

- Supplier Code: E300280500



#### ENERGIZER VISION HD+ HEADLIGHT

Product Code: O0012057

- Supplier Code: E300280600



#### ENERGIZER VISION HD+ FOCUS HEADLIGHT

Product Code: O0012058

- Supplier Code: E300280700



### FLOOR STANDING/DESK FANS



#### 16" DESK FAN

**Product Code: L0000694**

- Supplier Code: DX-40
- Oscillating head with multi - angle setting
- Voltage: 230V
- Power: 48W
- Speeds: 3



#### 18" INDUSTRIAL FLOOR STANDING FAN

**Product Code: L0000692**

- Supplier Code: CVS50
- Full metal construction
- Rugged heavy duty construction
- Voltage: 220 - 240V
- Frequency: 50Hz
- Power: 130W
- Speeds: 3

### WALL FANS



#### 16" WALL FAN

**Product Code: L0000700**

- Supplier Code: CP-40
- 90° oscillation movement
- Dual mode pull chain
- Voltage: 220 - 240V
- Frequency: 50Hz
- Power: 45W
- Speeds: 3



#### 20" AND 24" INDUSTRIAL WALL FAN

- Oscillation movement
- Control - top mounted
- Rugged heavy duty construction
- Voltage: 220 - 240V
- Frequency: 50Hz
- Speeds: 3

Product Code	Supplier Code	Inches
L0000699	WF50	20
L0003784	UR - IWB	24

### PEDESTAL FANS



#### 16" PEDESTAL FAN

**Product Code: L0002711**

- Supplier Code: 1690D
- Oscillation movement
- Diameter: 40cm
- Voltage: 220 - 240V
- Frequency: 50Hz
- Power: 41W
- Speeds: 3



#### 18" INDUSTRIAL PEDESTAL FAN

**Product Code: L0000695**

- Supplier Code: FES-45
- Full metal construction
- Up and down oscillation
- Strong and heavy wheel base
- Rugged heavy duty construction
- Tall elegant design
- Voltage: 220 - 240V
- Frequency: 50Hz
- Power: 170W
- Speeds: 3



#### 18" PEDESTAL FAN

**Product Code: L0002712**

- Supplier Code: 1801
- Full metal construction
- Oscillation movement
- Voltage: 220 - 240V
- Frequency: 50Hz
- Power: 90W
- Speeds: 3

# GENERAL PRODUCTS

## AIR MOVEMENT



### INDUSTRIAL CEILING FANS



#### CROMPTON GREAVES CEILING FANS

- Fan sweep size: 3 blade: 48": 120cm  
3 blade: 56": 140cm
- 2 ball bearings for silent operation
- Comes with wall controller and "J" hook

Product Code	Type	Colour	Fan Sweep Size (mm)	Size (inches)
L0000675	3 blade	White	1200	48
L0000676	3 blade	Black	1200	48
L0000686	3 blade	White	1400	56



#### 52" LED DECORATIVE CEILING FAN

**Product Code: J0037243**

- Supplier Code: CF52-3CS
- Colour: White
- Power: 60W
- Voltage: 230V 50Hz
- Copper motor
- 3 Speed settings
- Bigger air flow
- 3 ABS Blades
- Infrared remote included

### EXTRACTOR FANS



#### WACO CEILING EXTRACTOR FANS

**Product Code: L0000799**

- Supplier Code: E200

**Product Code: L0000800**

- Supplier Code: E250
- Fan sweep: 200mm and 250mm
- Power supply 230/240V 50Hz 36W
- 2 year guarantee



#### XPELAIR EXTRACTOR FAN

**Product Code: L0021931**

- Supplier Code: VX100
- Wall or ceiling mountable
- Ideal for small areas
- Also available in VX120 and VX150



#### XPELAIR CEILING EXTRACTOR FAN

**Product Code: L0000790**

- Supplier Code: CX10
- Ideal for use in bathrooms and offices
- Can be ducted (3m) using 200mm flex tubing

## AIR MOVEMENT



### EXTRACTOR FANS



#### CATA EXTRACTOR FANS - SMALL ROOMS

- Can be installed in ceiling or wall
- 230V, 50Hz motors
- Protection rating: IP44

Product Code	Supplier Code	Ø (mm)	Voltage (V)	Speed	Input Power (W)
L0003906	B - 10	100	230	2500RPM	15
L0003907	B - 12	120	230	2450RPM	20
L0004040	B - 15	150	230	2100RPM	28



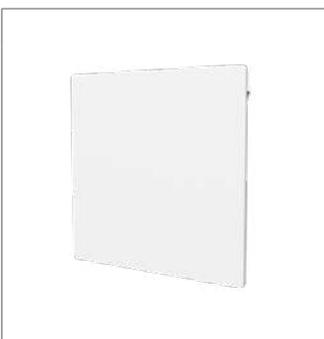
#### CATA EXTRACTOR FANS - INDUSTRIAL

- Can be installed in walls and windows (window kit included)
- 230V, 50Hz motors
- Protection rating: IP44

Product Code	Supplier Code	Ø (mm)	Voltage (V)	Speed	Input Power (W)
L0004041	B-23	230	230	1350RPM	45
L0003908	B-30	305	230	1260RPM	90



### HEATERS



#### WALL PANEL

**Product Code: Q0011041**

- Supplier Code: SPH55N
- LED indicator light
- Low power 400 - 425W
- Dimensions: 550 x 550cm, 1cm thick



#### BATHROOM HEATER

**Product Code: Q0000138**

- Supplier Code: CMC-1200
- 2 bar 1200W heater with 2 heat settings
- Voltage: 230W
- Wall mounted and tilt adjustable
- Comes with pull switch



#### 275W HEAT LAMP

**Product Code: J0025655**

- Voltage: 220 - 240V
- Wattage: 275W
- Colour: clear
- Instant heat
- Energy efficient
- Strict 4°C water splash test for better safety
- Used in 2 and 4 light bathroom heaters



# GENERAL PRODUCTS

## AIR MOVEMENT



### HEATERS



#### 2 LIGHT RECTANGULAR CEILING BATHROOM HEATER

**Product Code: Q0008210**

- Supplier Code: LSA310
- Wattage: light: 1 x R63 42W halogen bulb  
Heater: 2 x 275W infrared lamps provide instant heat
- Flexible duct: 1 x 1.5m
- Fitting colour: White
- Protection rating: IPX4
- Lens/shade material: Glass
- Fitting material: Plastic
- Class: I
- Front panel dimensions: 420mm(w) x 230mm(d) x 30mm(h)
- Cut out size: 34.5cm x 19cm
- Motor: Long lasting bush motor
- Included: 2 x heat lamp 275W  
1 x R63 42W halogen bulb



#### 4 LIGHT SQUARE CEILING BATHROOM HEATER

**Product Code: Q0008209**

- Supplier Code: LSA203
- Wattage: light: 1 x R80 70W halogen bulb  
Heater: 4 x 275W infrared lamps provide instant heat
- Flexible duct: 1 x 1.5m
- Fitting colour: White
- Protection rating: IPX4
- Lens/shade material: Glass
- Fitting material: Plastic
- Class: I
- Front panel dimensions: 373mm(w) x 373mm(d) x 34mm(h)
- Cut out size: 29cm x 29cm
- Motor: Long lasting bush motor
- Included: Complete switch with cover  
4 x heat lamp 275W  
1 x R80 70W halogen bulb

### AIR CONDITIONERS



#### STANDARD AIR CONDITIONERS

- 24 hour programmable timer
- Dry mode
- Removeable front panel for easy cleaning
- Air swing louvre and air filter
- Auto 3 stage fan speed
- Comes with an LCD infrared remote

	9 000BTU	12 000BTU	18 000BTU	24 000BTU
Product Code	L0000530	L0000532	L0000533	L0000534
Supplier Code	KFR25W	KFR32W	KFR50W	KFR70QW
Cooling Capacity (W)	2550	3200	5000	7000
Heating Capacity (W)	2830	3500	5500	7700
Power Supply	1PH, 220V, 50Hz			
Airflow (inside) (m³/h)	435	500	860	1050
Rated Cooling Power Input (W)	900	1280	1980	3050
Rated Cooling Current Input (A)	4.2	5.9	9.2	15
Rated Heating Power Input (W)	880	1180	2000	3150
Rated Heating Current Input (A)	4.1	5.4	9.3	15.5
Noise Level dB(A)	37/50	38/52	47/59	51/60
Net Dimensions - Inside (LxWxH)	677x188x250	745x190x250	900x201x285	1080 x 218 x 330
- Outside (LxWxH)	650x250x506	760x259x537	800x253x646	950 x 310 x 700

## AIR MOVEMENT



### HAND DRYERS



#### MEDICLINICS OPTIMA HAND DRYER

**Product Code: Q000048**

- Supplier Code: M99A
- Steel one-piece cover
- White Epoxy painted
- 1.5mm thick
- Voltage: 220 - 240V
- Frequency: 50/60Hz
- Wattage: 140W



#### MEDICLINICS OPTIMA HAND DRYER

**Product Code: Q000093**

- Supplier Code: M99AC
- Stainless steel one-piece cover
- Bright finish
- 1.5mm thick
- Voltage: 220 - 240V
- Frequency: 50/60Hz
- Wattage: 140W



#### MEDICLINICS MACHFLOW HAND DRYER

**Product Code: Q0000300**

- Supplier Code: M09ACS
- Stainless steel one-piece cover
- Satin finish
- 1.5mm thick
- Voltage: 220 - 240V
- Frequency: 50/60Hz
- Wattage: 420 - 1500W

## PLUGS AND MULTIPLUGS



### PLUGS



#### DEDICATED PLUG TOP

**Product Code: A0012891**

- 16A 3 pin
- Solid brass pins flattened earth pin - dedicated



#### NYLON PLUG TOP

**Product Code: 5A | A0001491**  
**Product Code: 16A | A0004524**

# GENERAL PRODUCTS

## PLUGS AND MULTIPLUGS



### PLUGS



#### RUBBER PLUG TOP

Product Code: A0011188

- 16A 3 pin



#### RUBBER JANUS COUPLER

Product Code: A0001465

- 2x 16A 3 pin
- Black
- Double sided



#### PVC JANUS COUPLER

Product Code: A0004728

- 2x 16A 3 pin
- White
- Double sided



#### APEX COUPLER JANUS PVC

Product Code: A0011545

- 2x 16A 3 pin
- White
- Double sided
- Rewireable



#### APEX COUPLER JANUS PVC

Product Code: A0012425

- 2x 16A 3 pin
- Black
- Double sided
- Rewireable



### ADAPTORS

#### 5 WAY MULTI ADAPTOR

**Product Code: A0004561**

- Supplier Code: N023
- 5 way 3x 16A, 2x 2 pin Euro
- Unswitched
- White



#### EURO MATE ADAPTOR

**Product Code: A0004575**

- 2 pin Euro
- White



#### DOUBLE ADAPTOR

**Product Code: A0004569**

- Supplier Code: N002
- 2x 16A
- White



### MULTIPLUGS

#### SGA MULTIPLUG 8 WAY

**Product Code: A0012768**

- 3x 5A
- 1x Schucko
- 2x USB



#### SN026 MULTIPLUG

**Product Code: A0013161**

- Supplier Code: SN026
- 3x 16A
- 2x slim
- 1x Schuko
- Cable length: 0.5m



# GENERAL PRODUCTS

## PLUGS AND MULTIPLUGS



### MULTI PLUGS



#### SN026S MULTIPLUG

**Product Code: A0013162**

- Supplier Code: SN026S
- 3x 16A
- 2x slim
- 1x Schuko
- Cable length: 0.5m
- Surge protection



#### SN028 MULTIPLUG

**Product Code: A0013164**

- Supplier Code: SN028
- 4x 16A
- 3x slim
- 1x Schuko
- Cable length: 0.5m



#### SN028S MULTIPLUG

**Product Code: A0013165**

- Supplier Code: SN028S
- 4x 16A
- 3x slim
- 1x Schuko
- Cable length: 0.5m
- Surge protection



#### SN0212 MULTIPLUG

**Product Code: A0013167**

- Supplier Code: SN0212
- 6x 16A
- 5x slim
- 1x Schuko
- Cable length: 0.5m



#### SN0212S MULTIPLUG

**Product Code: A0013168**

- Supplier Code: SN0212S
- 6x 16A
- 5x slim
- 1x Schuko
- Cable length: 0.5m
- Surge protection



#### SN028USB MULTIPLUG

**Product Code: A0013170**

- Supplier Code: SN028USB
- 4x 16A
- 3x slim
- 1x Schuko
- 2x USB
- Cable length: 0.5m



### CORDS



#### KETTLE CORD

**Product Code: Q0000033**

- White
- Length: 0.8m
- Size: 1mm<sup>2</sup> x 3 cable



#### EXTENSION CORD

**Product Code: 5m | A0000409**  
**Product Code: 10m | A0001531**

- White
- 16A plug top and Janus coupler
- 10A cable
- Size: 1mm<sup>2</sup> x 3 cable



#### 5A 3 PIN CORDSET

**Product Code: A0003413**

- White
- Length: 3m
- Size: 0.5mm<sup>2</sup> x 3 cable



### EXTENSION REELS



#### KOSMO STEEL EXTENSION REEL - EMPTY

**Product Code:**  
**30m (1.5mm cable) | L0003901**

**Product Code:**  
**30m (2.5mm cable) | L0003874**

**Product Code:**  
**50m (2.5mm cable) | L0003902**

- Double 16A sockets + switches



#### KOSMO STEEL EXTENSION REEL WITH CABLE

**Product Code:**  
**15m (1.0mm cable) | L0004075**

**Product Code:**  
**20m (1.0mm cable) | L0002717**

**Product Code:**  
**20m (2.5mm cable) | L0002716**

**Product Code:**  
**30m (1.5mm cable) | L0002718**

**Product Code:**  
**40m (2.5mm cable) | L0004076**

- Double 16A sockets + switches

# GENERAL PRODUCTS

## PLUGS AND MULTIPLUGS



### EXTENSION REELS



### WACO EXTENSION REELS

Product Code	Description
L0015654	Waco extension reel steel duo + Schuko sso empty 16A illuminated switch
L0015655	Waco extension reel steel duo + Schuko sso 30m 2.5mm 16A illuminated switch
L0015656	Waco extension reel steel duo + Schuko sso 20m 2.5mm 16A illuminated switch
L0015657	Waco extension reel steel duo + Schuko sso 30m 1.5mm 16A illuminated switch
L0015658	Waco extension reel steel duo + Schuko sso 20m 1mm 16A illuminated switch

## GENERAL LIGHTING



### BRASS LAMP HOLDERS



#### BRASS BC

Product Code: J0002634

- 10mm entry + earth terminal



#### BRASS BC

Product Code: J0016486

- 10mm entry



#### BRASS CORDGRIP BC

Product Code: J0003145



#### BRASS BACKPLATE

Product Code: 10mm entry | J0002635

Product Code: 12mm entry | J0002636



#### BRASS BATTEN BC

Product Code: J0016485

- 50mm



### PORCELAIN LAMP HOLDERS



#### PORCELAIN BC

**Product Code:** J0003395

- Supplier Code: GPO10BT
- With base



#### PORCELAIN GES/E40

**Product Code:** J0002647

- Supplier Code: #55 J69



#### PORCELAIN ES/E27

**Product Code:** J0016952

- Supplier Code: #33 J62
- No base/un-skirted



#### PORCELAIN ES/E27

**Product Code:** J0014006

- Supplier Code: #66 J67
- With base

### NYLON LAMP HOLDERS



#### NYLON BC/B22

**Product Code:** Black | J0016503

**Product Code:** White | J0002641

- Batten 50mm



#### NYLON BC/B22

**Product Code:** Black | J0016505

**Product Code:** White | J0003097

- Cord-grip 10mm



#### ILLUMINATION HOLDER BC/B22

- Product Code: J0002638

# GENERAL PRODUCTS

## GENERAL LIGHTING



### LIGHTING ACCESSORIES



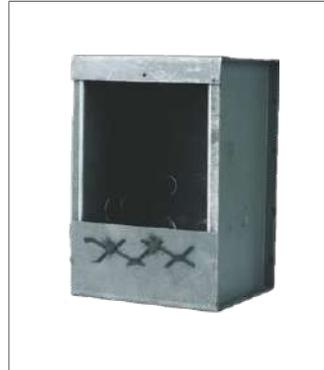
#### GALVANISED SLAB BOX LIDS

Product Code: 65mm | C0000731

Product Code: 75mm | C0000732

Product Code: 85mm | C0000733

- Other sizes available on request



#### SLAB BOX

Product Code: C0000716

- Galvanised boxes for downlights
- Size: 220mm x 150mm x 130mm
- Other sizes available on request



#### WHITE PENDANT CORD AND HOLDER

Product Code: J0003238

### PULL SWITCHES AND LIGHT SWITCHES



#### CEILING FAN SWITCH

Product Code: L0004334

- 4way
- 250V
- AC 3A
- 3 Speed



#### EAGLE CANOPY PULL SWITCH

Product Code: J0002947

- Supplier Code: ZE-109
- 250V
- AC 2A
- Screw connection



### PULL SWITCHES AND LIGHT SWITCHES



#### CEILING PULL SWITCH

Product Code: 6A 1 way | A0004998  
Product Code: 6A 2 way | A0004381



#### FOOT SWITCH

Product Code: Black | J0016461  
Product Code: White | D0002548

- For domestic use



#### THRU SWITCH

Product Code: Black | A0004184  
Product Code: White | A0001591

- 3A 250V AC



#### TABLE LAMP SWITCH

Product Code: J0002942

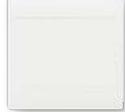
- 2A 250V AC
- Screw connection

# GENERAL PRODUCTS

## GENERAL LIGHTING



### WACO W-RANGE

Type	Product Code	Description	Type	Product Code	Description
	A0011141	Switch + cover 100 x 50 1 lever 1 way PVC		A0011149	SSO + cover 100 x 100 DUO 16A PVC
	A0011142	Switch + cover 100 x 50 2 lever 1 way PVC		A0011150	SSO Comb + cover 100 x 100 16A + slim PVC
	A0011143	Switch + cover 100 x 50 3 lever 1 way PVC		A0013398	SSO comb + cover 100 x 100 16A + 3x slim PVC
	A0011144	Switch + cover 100 x 50 4 lever 1 way PVC		A0011321	Isolator + cover 100 x 100 45A DP PVC
	A0011145	Switch + cover 100 x 50 1 lever 2 way PVC		A0011322	Isolator + cover 100 x 50 32A DP PVC
	A0011146	Switch + cover 100 x 50 2 lever 2 way PVC		A0011151	Cover plate blank 100 x 50 PVC
	A0011147	SSO + cover 100 x 50 SGL 16A PVC		A0011152	Cover plate blank 100 x 100 PVC
	A0011148	SSO + cover 100 x 100 SGL 16A PVC			



### WACO PREMIUM RANGE

Type	Product Code	Description	Type	Product Code	Description
	A0012548	Switch + cover 100 x 50 1 Lever 1 way PVC		A0012570	Switch + cover 100 x 100 5 lever 1 way PVC
	A0012549	Switch + cover 100 x 50 2 lever 1 way PVC		A0012571	Switch + cover 100 x 100 6 lever 1 way PVC
	A0012550	Switch + cover 100 x 50 3 Lever 1 way PVC		A0012554	SSO + cover 100 x 100 SGL 16A PVC
	A0012551	Switch + cover 100 x 50 4 lever 1 way PVC		A0012555	SSO + cover 100 x 100 DUO 16A PVC
	A0012552	Switch + cover 100 x 50 1 lever 2 way PVC		A0012556	SSO + cover 100 x 50 SGL 16A PVC
	A0012553	Switch + cover 100 x 50 2 lever 2 way PVC		A0012557	SSO comb + cover 100 x 100 16A + slim PVC
	A0012560	Bell press switch complete 100 x 50 PVC		A0012569	Socket comb + cover 100 x 100 16A 3P Std + 2x USB PVC
	A0012561	Dimmer + cover 100x 50 1 lever 500W PVC		A0012564	Isolator + cover 100 x 100 45A DP PVC
	A0012562	Dimmer + cover 100 x 50 2 lever 500W PVC			

# GENERAL PRODUCTS

## GENERAL LIGHTING



### WACO PREMIUM RANGE

Type	Product Code	Description	Type	Product Code	Description
	A0012565	Isolator + cover 100 x 50 32A DP PVC		A0012566	TV outlet 100 x 50 PVC
	A0012558	Cover plate blank 100 x 50 PVC		A0012567	TV + telephone outlet 100 x 50 PVC
	A0012559	Cover plate blank 100 x 100 PVC		A0012568	Telephone outlet 100 x 50 PVC

### GERALD JOSEPH RANGE

Type	Product Code	Supplier Code	Description	Type	Product Code	Supplier Code	Description
	A0003980	JOS42/SS1G2W	Switch + cover 100 x 50 1 lever 2 way Stainless steel		A0003988	JOS42/BSSSES	SSO + cover 100 x 100 16A + slim Stainless steel
	A0003981	JOS42/SS2G2W	Switch + cover 100 x 50 2 lever 2 way Stainless steel		A0003989	JOS44/BSSDSS	SSO + cover 100 x 100 DUO 16A Stainless steel
	A0003982	JOS42/SS3G2W	Switch + cover 100 x 50 3 lever 2 way Stainless steel		A0003987	JOS44/BSS60A3P	Isolator + cover 100 x 100 60A Stainless steel
	A0003983	JOS42/SS4G2W	Switch + cover 100 x 50 4 lever 2 way Stainless steel		A0003984	JOS42/SS4G2W	Telephone outlet 100 x 100 Stainless steel
	A0003985	JOS44/BSSSSS	SSO + cover 100 x 100 16A Stainless steel		A0003986	JOS44/BSSTVSAT	TV + sat outlet 100 x 100 Stainless steel



### GALLERIES



#### WATERTIGHT FITTING COMPLETE

Product Code: 100W | J0003259  
Product Code: 200W | J0002571



#### NYLON GALLERY B22/BC LAMP HOLDER

Product Code: 6"/160mm | J0000671  
Product Code: 8"/200mm | J0000676



#### FIBREGLASS GALLERY WITH PORCELAIN B22/BC LAMP HOLDER

Product Code: 6"/160mm | J0000667  
Product Code: 8"/200mm | J0000672



#### GALLERY ONLY

Product Code: 100W BC nylon lamp holder | J0000676  
Product Code: 200W BC nylon lamp holder | J0003214

### BULKHEADS



#### RECTANGULAR BULKHEAD

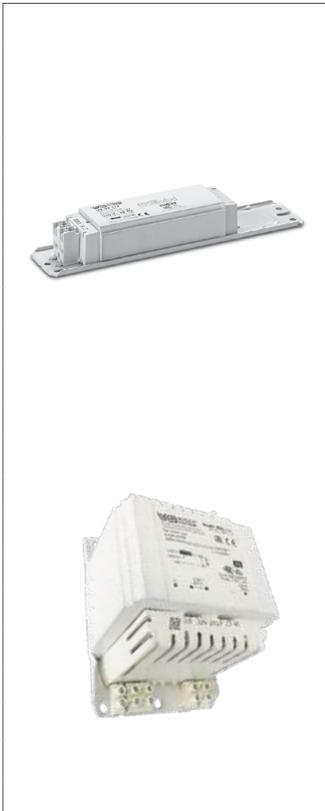
Product Code: 60W | J0003390  
Product Code: 100W | J0016953

- UV stabilised techno plastic base and polycarbonate visor
- Must be mounted with lamp holder in upward position
- Protection rating: IP44

## GENERAL LIGHTING



### BALLASTS/CHOKES



#### MAGNETIC

- Low noise and low heat
- High grade luminations
- For high pressure sodium (HS) and metal halide (HI) lamps

Product Code	Supplier Code	Description
J0013539	VS169645	Fluorescent 30W
J0013540	VS509044	Fluorescent 58W
J0013542	VS534074	Fluorescent 36W
J0024941	503875	Fluorescent switch start 9W
J0024942	163711	Fluorescent switch start 13W
J0024943	163730	Fluorescent switch start 16W
J0024944	503871	Fluorescent switch start 18W
J0000261	VS533568	LCI VOSL HS/HI 70W
J0000260	VS533565	VSL HS/HI 150W
J0000259	VS504109	LCI HS/HI 250W
J0014292	178790	HPS/HID 400W
J0000255	VS167304	VSL VOSL 80W MV
J0000254	VS167263	Mercury vapour 125W
J0000257	VS167367	VSL 250W MV
J0000256	VS167330	Mercury vapour 400W
J0013541	VS528548	HS/HI 1000W
J0013565	140430	Ignitor HPS/HID 1000W

### TRIDONIC



#### ELECTRONIC

- Electronic control gear (ECG) operates lamps with high-frequency voltages and currents (over 40 kHz)

Product Code	Supplier Code	Description
J0000225	22176000	1 x 18-24W Basic SL
J0008557	22185227	PC 2 x 58W T8 Top SL
J0013531	22185222	PC 1 x 18W T8 Top SL
J0013532	22185225	PC 2 x 18W T8 Top SL
J0013533	22185223	PC 1 x 36W T8 Top SL
J0013534	22185226	PC 2 x 36W T8 Top SL
J0013536	22185224	PC 1 x 58W T8 Top SL
J0023459	188618	2 x 54W (Vossloh - Schwabe)
J0023460	188094	2 x 28W (Vossloh - Schwabe)



### FLUORESCENT STARTERS



#### FLUORESCENT STARTERS

Product Code	Supplier Code	Wattage (W)
J0002884	FS2	22
J0002883	FSU	80

## PHILIPS



#### FLUORESCENT STARTERS

Product Code	Supplier Code	Wattage (W)
J0002886	S10	65
J0002887	S2	22



### GALVANISED STEEL CHAIN FOR FLUORESCENT FITTINGS



**Product Code: J0014295**

- Supplier Code: CHJBL
- Single jack chain
- 2mm x 30m

### LIGHT TRANSFORMERS

#### LOW VOLTAGE TRANSFORMERS FOR LIGHTING



- Double insulated/double wound, wire wound
- Thermal cut-out

Product Code	Description
J0000448	50VA 12V fused
J0000449	100VA 12V fused
J0000450	150VA 12V fused
J0000451	200VA 12V fused
J0000452	250VA 12V fused
J0000453	300VA 12V fused
J0000454	350VA 12V fused

# GENERAL PRODUCTS

## GENERAL LIGHTING



### READYLIGHTS



#### ECO LIGHT

**Product Code: J0024829**

- LED lamp



#### BUDGET LIGHT

**Product Code: J0008456**

- Energy saving lamp



#### BRAAI LITE 220V

**Product Code: J0015726**

- Supplier code: Q1011
- 1.2m high with cord and plug
- Portable and ready to use light
- Large poly bowl (200mm)



#### BOWL

Product Code	Type	Description	Size (mm)
J0000332	Screw neck	Waco glass opal	160
J0000333			200
J0002555	Screw neck	Polycarbonate	160
J0015712			200

## ENCLOSURES



#### SOCKET OUTLET BOXES

- Generally used in residential and commercial buildings

Product Code	Supplier Code	Description	Dimensions (HWD) (mm)
C0008903	040-607	PSO-1 stealth GRP lid	176 x 132 x 94
C0008904	040-608	PSO-1 stealth clear poly lid	176 x 132 x 94
C0008818	040-609	PSO-1 Box empty	85 x 130 x 70
C0008819	040-610	PSO-2 Box empty	130 x 173 x 88
C0001347	040-662	PSO-1/A with single socket outlet	85 x 130 x 70
C0008820	040-663	PSO-2/A with double socket outlet	130 x 173 x 88



### SURFACE WALL BOX

Product Code	Supplier Code	Description	Dimensions (HWD) (mm)
C0008798	040-724	A-44 double surface mount socket outlet box	118 x 118 x 36



### POOL BOXES

Product Code	Supplier Code	Description	Type	Dimensions (HWD) (mm)
C0001353	040-659	WP-1 with 125VA PCB transformer and standard timer	Fitted	315 x 185 x 120
I0006706	040-617	Din E+N bar with socket WP-1D	Empty	315 x 185 x 120
C0001354	040-667	Sam E+N bar with socket WP-1S	Empty	315 x 185 x 120



### SURFACE DISTRIBUTION BOXES

Product Code	Supplier Code	Description	Dimensions (HWD) (mm)
C0001053	040-758	YB5 Sam	200 x 110 x 60
C0001054	YB6 - BL	Blank lid box	240 x 190 x 70
C0001056	YB8 - DIN	Screw lid box	
C0001032	YB - 16B	Blank screw lid box	365 x 255 x 73
C0000861	YB - 16S	YB-16 with E+N Bar and Sam	365 x 255 x 73



### WEATHERPROOF DISTRIBUTION BOXES - HINGE LIDS

Product Code	Supplier Code	Description	Dimensions (HWD) (mm)
C0000027	040-746	WDB12-B 12 way sam surface box	350 x 250 x 160
C0001031	040-747	WDB20-B 20 way din surface box	400 x 300 x 140
C0000738	040-743	WDB24-B 24 way sam surface box	400 x 300 x 140



### WEATHERPROOF DISTRIBUTION BOXES - SLIDE LIDS

Product Code	Supplier Code	Description	Dimensions (HWD) (mm)
C0001352	040-690	F081-Sam	215 x 150 x 80
C0008790	040-621	F081-Din	215 x 150 x 80

# GENERAL PRODUCTS

## ENCLOSURES



### AP RANGE

Product Code	Supplier Code	Description	Dimensions (HWD) (mm)
C0007350	AP2-A	General purpose box	600 x 450 x 165
C0007351	AP3-A	General purpose box	600 x 450 x 260



### ENLEC POLYCARBONATE GENERAL PURPOSE ENCLOSURES

Product Code	Supplier Code	Description	Dimensions (HWD) (mm)
I0006557	ENL080806C	ENL080806C grey base + clear lid	80 x 80 x 55
I0006559	ENL120806C	ENL120806C grey base + clear lid	120 x 80 x 55
I0006561	ENL120809C	ENL120809C grey base + clear lid	120 x 80 x 90
I0006563	ENL121206C	ENL121206C grey base + clear lid	120 x 120 x 55
I0006565	ENL121209C	ENL121209C grey base + clear lid	120 x 120 x 90
I0006567	ENL160806C	ENL160806C grey base + clear lid	160 x 80 x 55
I0006569	ENL160809C	ENL160809C grey base + clear lid	160 x 80 x 90
I0006571	ENL161209C	ENL161209C grey base + clear lid	160 x 120 x 90
I0006573	ENL161609C	ENL161609C grey base + clear lid	160 x 160 x 90
I0006575	ENL201209C	ENL201209C grey base + clear lid	200 x 120 x 90
I0006577	ENL201509C	ENL201509C grey base + clear lid	200 x 150 x 90
I0006579	ENL241210C	ENL241210C grey base + clear lid	240 x 120 x 100
I0006581	ENL241610C	ENL241610C grey base + clear lid	240 x 160 x 100
I0006583	ENL241613C	ENL241613C grey base + clear lid	240 x 160 x 130
I0006585	ENL302310C	ENL302310C grey base + clear lid	300 x 230 x 100
I0006587	ENL302313C	ENL302313C grey base + clear lid	300 x 230 x 130
I0006589	ENL362015C	ENL362015C grey base + clear lid	360 x 200 x 150
I0006558	ENL080806P	ENL080806P grey base + grey lid	80 x 80 x 55
I0006560	ENL120806P	ENL120806P grey base + grey lid	120 x 80 x 55
I0006562	ENL120809P	ENL120809P grey base + grey lid	120 x 80 x 90
I0006564	ENL121206P	ENL121206P grey base + grey lid	120 x 120 x 55
I0006566	ENL121209P	ENL121209P grey base + grey lid	120 x 120 x 90
I0006568	ENL160806P	ENL160806P grey base + grey lid	160 x 80 x 55
I0006570	ENL160809P	ENL160809P grey base + grey lid	160 x 80 x 90
I0006572	ENL161209P	ENL161209P grey base + grey lid	160 x 120 x 90
I0006574	ENL161609P	ENL161609P grey base + grey lid	160 x 160 x 90
I0006576	ENL201209P	ENL201209P grey base + grey lid	200 x 120 x 90
I0006578	ENL201509P	ENL201509P grey base + grey lid	200 x 150 x 90
I0006580	ENL241210P	ENL241210P grey base + grey lid	240 x 120 x 100
I0006582	ENL241610P	ENL241610P grey base + grey lid	240 x 160 x 100
I0006584	ENL241613P	ENL241613P grey base + grey lid	240 x 160 x 130
I0006586	ENL302310P	ENL302310P grey base + grey lid	300 x 230 x 100
I0006588	ENL302313P	ENL302313P grey base + grey lid	300 x 230 x 130
I0006590	ENL362015P	ENL362015P grey base + grey lid	360 x 200 x 150



### DEVICE PLATES FOR ENLEC RANGE

Product Code	Supplier Code	Dimensions (HxW)
I0006543	ENL0808DP	80 x 80
I0006544	ENL1208DP	120 x 80
I0006545	ENL1212DP	120 x 120
I0006546	ENL1608DP	160 x 80
I0006547	ENL1612DP	160 x 120
I0006548	ENL1616DP	160 x 160
I0006549	ENL2012DP	200 x 120
I0006550	ENL2015DP	200 x 150
I0006551	ENL2412DP	240 x 120
I0006552	ENL2416DP	240 x 160
I0006553	ENL3023DP	300 x 230
I0006554	ENL3620DP	360 x 200



### READY BOARDS

- There are endless variations on ready boards as the specifications of different utility companies vary greatly.
- The variations below are more common and some are available from stock.
- Please consult with our technical department for any variations you may require.

Product Code	Supplier Code	Description
C0001033	RBA000ZF0E22	RBA-1B Vertical R/B (63Amp E/L, 2x 20Amp mcb, 3x SSO) No Bulkhead
C0001038	RBAB00ZF0E22	RBA-1B Vertical R/B (63Amp E/L, 2x 20Amp mcb, 3x SSO) With Bulkhead



### METER BOXES

Product Code	Supplier Code	Description	Dimensions (HWD) (mm)
I0006648	SMB-11	Box c/w metal gland plate	315 x 225 x 155
I0006649	SMB-12	Box without metal gland plate	315 x 225 x 155
C0008804	040-697	TMB-3B blank lid	445 x 465 x 200
I0006652	TMB-3	TMB-3 with 3 windows	445 x 465 x 200
C0008787	040-781	DMB-A single window	445 x 430 x 210
C0008788	040-782	DMB-A2 double window	445 x 430 x 211
C0008789	DMB-A3	DMB-A3 with 3 window lid	445 x 430 x 211

# GENERAL PRODUCTS

## ENCLOSURES



### POLE MOUNTING ENCLOSURE

Product Code	Supplier Code	Description	Dimensions (HWD) (mm)
I0006539	040-638	14 way	325 x 200 x 110



### POLE MOUNTING BRACKETS

Product Code	Supplier Code	Description	Dimensions (HWD) (mm)
I0006630	PB-S	Small	27 x 21 x 140
I0006629	PB-M	Medium	43 x 30 x 165
I0006628	PB-L	Large	56 x 37 x 277



### JUNCTION BOXES - SCREW LIDS

Product Code	Supplier Code	Description	Dimensions (HWD) (mm)
C0008806	040-601	MPA box (S10)	170 x 106 x 78
C0008815	040-602	MPB box (S12)	205 x 155 x 70
I0006594	040-603	MPC box (US3)	305 x 205 x 110
C0008803	040-626	MPE box (J1)	87 x 87 x 50
I0006595	040-600	MPX box (S5B)	120 x 80 x 55
C0001052	040-755	MPX deep (S5 deep)	110 x 70 x 80
C0001049	040-756	S11	200 x 110 x 40
C0008816	040-653	MPS13 box (S13)	230 x 130 x 120
C0001050	040-757	MPS13 deep (S13 deep)	230 x 130 x 160
C0008817	040-654	MPS14 box (S14)	260 x 160 x 93
I0006626	040-605	PB-1 box	100 x 97 x 77
I0006627	040-606	PB-2 box	141 x 97 x 77
C0008799	040-633	ST-1 box (S64)	149 x 109 x 55
H0001455	040-702	Junction Box UB40/A1/20 (round junction box IP68)	68 x 108
C0008908	040-941	Adjustable slab lid box	140 x 140 x 125



### JUNCTION BOXES - SLIDE LIDS

Product Code	Supplier Code	Description	Dimensions (HWD) (mm)
C0008800	040-615	UB-4 box slide lid	315 x 185 x 120
I0006660	040-666	UB-4 box slide lid with wood	315 x 185 x 120
C0001068	040-661	UB-7 box slide lid	305 x 305 x 155
C0008802	040-623	UB-7 box slide lid with wood	305 x 305 x 155
I0006591	040-646	LC42 box utility hinged lid	350 x 350 x 130
I0006540	040-701	CB60 box utility slide lid	160 x 140 x 60



### UTILEC MODERN GENERAL PURPOSE ENCLOSURES FOR INDUSTRIAL OR DOMESTIC APPLICATIONS



Product Code	Supplier Code	Description	Dimensions (HWD) (mm)
C0000938	040-751	UT1 screw lid enclosure	80 x 80 x 60
I0006680	040-752	UT1-S slide lid enclosure	80 x 80 x 60
C0000944	040-655	UT2 screw lid enclosure	110 x 110 x 90
I0006684	040-714	UT2-S slide lid enclosure	110 x 110 x 90
I0006685	040-670	UT3 screw lid enclosure	160 x 110 x 90
I0006686	040-715	UT3-S slide lid enclosure	160 x 110 x 90
C0000940	040-656	UT4 screw lid enclosure	210 x 160 x 90
C0000939	040-716	UT4-S slide lid enclosure	210 x 160 x 90
C0001064	040-753	UT4-D screw lid enclosure (deep)	211 x 160 x 180
C0001065	040-761	UT4-SD slide lid enclosure (deep)	211 x 160 x 180
C0000935	040-657	UT5 screw lid enclosure	210 x 210 x 125
I0006690	040-717	UT5-S slide lid enclosure	210 x 210 x 125
I0006691	040-658	UT6 screw lid enclosure	260 x 210 x 125
I0006692	040-718	UT6-S slide lid enclosure	260 x 210 x 125
I0006693	040-671	UT7 screw lid enclosure	310 x 210 x 125
I0006694	040-719	UT7-S slide lid enclosure	310 x 210 x 125
I0006695	040-672	UT8 screw lid enclosure	310 x 260 x 165
I0006696	040-720	UT8-S slide lid enclosure	310 x 260 x 165
I0006697	040-673	UT9 screw lid enclosure	310 x 310 x 165
I0006698	040-721	UT9-S slide lid enclosure	310 x 310 x 165
I0006681	040-674	UT10 screw lid enclosure	410 x 410 x 165
I0006682	040-722	UT10-S slide lid enclosure	410 x 410 x 165

# GENERAL PRODUCTS

## ENCLOSURES



### RL-RANGE GENERAL PURPOSE ENCLOSURES

Product Code	Supplier Code	Description	Dimensions (HWD) (mm)
C0001046	040-764	RL-2CHP hinged plain box	200 x 145 x 165
C0001047	040-765	RL-2CHW hinged window box	200 x 145 x 165
C0001048	040-766	RL-2CP plain box	200 x 145 x 165
C0008793	040-767	RL-3HP hinged plain box	260 x 220 x 230
C0008794	040-768	RL-3HW hinged window box	260 x 220 x 230
I0006640	040-769	RL-3P plain box	260 x 220 x 230
C0008809	040-731	RL-4HP hinged plain box	350 x 250 x 160
C0008810	040-732	RL-4HW hinged window box	350 x 250 x 160
C0001351	040-733	RL-4P plain box	350 x 250 x 160
I0006641	040-734	RL-4DHP deep hinged plain box	350 x 250 x 200
I0006642	040-735	RL-4DHW deep hinged window box	350 x 250 x 200
C0008795	040-736	RL-5HP hinged plain box	390 x 300 x 200
C0008796	040-737	RL-5HW hinged window box	390 x 300 x 200
I0006647	040-738	RL-5P plain box	390 x 300 x 200
C0008812	040-739	RL-5BHP shallow hinged plain box	390 x 300 x 141
C0008811	040-740	RL-5BHW shallow hinged window box	390 x 300 x 142
I0006646	040-741	RL-5BP shallow plain box	390 x 300 x 142
C0007349	040-640	RL-6D-P deep hinged plain box	480 x 315 x 200



### RL-RANGE DEVICE PLATES

Product Code	Supplier Code	Description
C0001058	020-082	Device plate RL1 (DEV-C)
C0001059	020-081	Device plate RL2 (DEV-D)
C0001040	020-084	Device plate RL3 (DEV-H)
C0001041	020-085	Device plate RL4 (DEV-O)
C0001042	020-086	Device plate RL5 (DEV-Q)



### SLAB BOX

Product Code	Supplier Code	Description
C0008908	040-941	Slab box complete
-	AE114	Protective cap
-	AE113	Mounting plate

**Note** Protective cap is sold separately and is not included in complete Slab Box

**Note** Items above with (-) in the Product Code column are available on special request.



### ALLBROX RANGE



Product Code	Supplier Code	Description	Dimensions (HWD) (mm)
C0007619	ALL-003	Allbrox 3 with SMC device plate	350 x 250 x 200
C0008538	ALL-004	Allbrox4 with SMC device plate	400 x 300 x 200
-	ALL-004/D	Allbrox 4 deep with SMC device plate	400 x 300 x 273
-	ALL-005	Allbrox 5 with SMC device plate	500 x 350 x 200
C0007621	ALL-006	Allbrox 6 with SMC device plate	600 x 400 x 200
-	ALL-006/D	Allbrox 6 deep with SMC device plate	600 x 400 x 250
-	ALL-006_5-L	Allbrox 6_5 landscape with SMC device plate	500 x 700 x 246
-	ALL-006_5-P	Allbrox 6_5 portrait with SMC device plate	700 x 500 x 246
-	ALL-007_1-P	Allbrox 7_1 portrait with SMC device plate	828 x 710 x 287
-	ALL-007_1-L	Allbrox 7_1 landscape with SMC device plate	710 x 828 x 27
-	ALL-008-P	Allbrox 8 portrait with SMC device plate	1000 x 800 x 320
-	ALL-008-L	Allbrox 8 landscape with SMC device plate	800 x 1000 x 320

## METERS



### KWH METERS

#### SINGLE PHASE



**Product Code: E0000269**

- Single phase 20 - 80A
- SABS IEC 60521/SABS 1607
- Two wire - 230V AC
- 1/12
- Can withstand test peak 8kV 10 times

#### THREE PHASE



**Product Code: E0000270**

- Three phase 3x 20 - 80A
- IEC 521
- Four wire - 380V AC
- Type: SAM4
- 1/6
- Can withstand test peak 8kV 10 times

#### WACO KWH METER



**Product Code: E0012144**

- Electronic
- Single phase
- 20 - 60A

**Note** Items above with (-) in the Product Code column are available on special request.



Please note: Subject to any applicable laws from time to time: (1) All the product images shown in this catalogue are for marketing purposes and may differ from the actual product. (2) All factual information in this catalogue was correct at the time of going to print and is subject to change without prior notice. Errors and Omissions Excepted. Voltex (Pty) Ltd and its Marketing Agency do not accept responsibility or liability for any incorrect listing of any merchandise or information. Voltex Terms & Conditions of Sale which can be found at [www.voltex.co.za](http://www.voltex.co.za) and the Disclaimer which is set out at the end of this catalogue apply

# GENERAL PRODUCTS

## METERS



### PREPAID METERS (SUB-METERING)



#### HEXING THREE PHASE PLC (HXE310-P)

**Product Code: L0021952**

- Supplier Code: H003
- The Three Phase meter is a split PLC meter with keypad
- This 100A meter is used as a split meter, is STS compliant and features extensive tamper protection



#### HEXING DIN RAIL PLC (HXP100DI)

**Product Code: L0021950**

- Supplier Code: H001
- The Din Rail PLC HXP100DI is a split PLC meter with keypad
- This 80A meter is used as a split meter, is mounted on a DIN rail, is STS compliant and features extensive tamper protection



#### HEXING PLC CIU

**Product Code: L0021956**

- Supplier Code: H006
- The Hexing PLC CIU is a smart Customer Interface Unit that works with split keypad prepaid meters



#### UTILITY SYSTEMS AMANZI WATER METER

**Product Code: L0022436**

- Supplier Code: W003
- The Utility Systems water management device, the WMD, is a remote communicating electronic water control valve
- When linked to a pulse output water meter, the WMD enables two-way communication, configuration and valve control as well as the option for STS-approved prepaid water supply



#### UTILITY SYSTEMS WATER METER CIU

**Product Code: L0022528**

- Supplier Code: U001
- The Utility Systems Water meter CIU is a Customer Interface Unit that works with prepaid water meters



#### HEXING THREE PHASE (HXE 310-KP)

**Product Code: L0022472**

- Supplier Code: H010
- The Three Phase HXE310-KP is an integrated meter with optional keypad.
- This 100A meter is used as an integrated or split meter, is STS compliant and features tamper protection.



#### LANDIS+GYR CIU (WIRED KEYPAD)

**Product Code: L0021932**

- Supplier Code: K001
- The Landis+Gyr CIU is a smart Customer Interface Unit that works with split keypad prepaid meters



#### LANDIS+GYR GEMINI HMI

**Product Code: L0021951**

- Supplier Code: G003
- The Gemini HMI is a single phase integrated meter with additional optional keypad
- This 80A meter is used as an integrated or split meter, is STS compliant and features tamper protection



### PREPAID METERS (SUB-METERING)



#### LANDIS+GYR DIN RAIL

**Product Code: L0021933**

- Supplier Code: G002
- The Din Rail is a single phase wired split meter that works with the CIU wired keypad
- This 80A meter is used as a split meter, is mounted on a DIN rail, is STS compliant and features extensive tamper protection



#### LANDIS+GYR THREE PHASE

**Product Code: L0003964**

- Supplier Code: G005
- The Three Phase is an integrated meter with optional keypad
- This 100A meter is used as an integrated or split meter, is STS compliant and features tamper protection



#### LANDIS+GYR GEM LITE

**Product Code: L0021027**

- Supplier Code: G009
- The Gem Lite is a single phase integrated meter with keypad
- This 80A meter is used as an integrated meter and is STS compliant



#### LANDIS+GYR SABRE

**Product Code: E0003548**

- Supplier Code: G013
- The Landis+Gyr Sabre is a compact, single phase meter with keypad in a housing compatible with the standard common base electricity dispenser socket
- This 60A (80A optional) meter is used as an integrated meter and is STS compliant



#### LANDIS+GYR COMMON BASE SABRE

**Product Code: L0003939**

- Supplier Code: G012
- The Landis+Gyr Common Base Sabre is a standard common base that works with the Landis+Gyr Sabre meter



#### HEXING HXE115-KP

**Product Code: L0021968**

- Supplier Code: H007
- The HXE115-KP is a single phase integrated meter with keypad
- This 80A meter is used as an integrated meter and is STS compliant



#### PREPAID READY BOARD

**Product Code: C0008563**

- This prepaid ready board includes a mounting base, prepaid meter, DB board, circuit breakers, switches, plugs and a light

# GENERAL PRODUCTS

## MISCELLANEOUS



### LEAD LIGHTS



#### P10 AND P11

**Product Code: ES | J0016279**

- Supplier Code: P10
- Product Code: BC | J0016278**
- Supplier Code: P11
- Wire guard, rubber handle and impact ring
- 250V
- Complies with local and international regulations
- Protection rating: IP55



#### P12 AND P13

**Product Code: ES | O0000333**

- Supplier Code: P12
- Product Code: BC | J0002659**
- Supplier Code: P13
- Wire guard and rubber handle
- 250V
- Complies with local and international regulations
- Protection rating: IP55



#### EXPLOSION PROOF

**Product Code: J0015067**

- Wire guard
- ES lamp holder
- 250V
- Explosion and shock proof rubber handle
- Protection rating: IP54
- Recommended cable: - H07 - F 2x 1.5mm<sup>2</sup>



#### PVC LEADLIGHT

**Product Code: J0016311**

- Body is totally nylon/PVC
- 1m cord with 16A 3 pin



#### LEADLIGHT SPARE GLASS

**Product Code: O0004673**

- For P10 and P13



### INSECT KILLERS



#### INDUSTRIAL AND OUTDOOR

Product Code: 2 x 8W | J0002819

Product Code: 2 x 15W | J002820

Product Code: 2 x 20W | J0014020

- Modern, safe and effective
- Made for wall mounting, suspended from ceiling or free standing
- Ideal for restaurants, factories, kitchens and patios
- Spare lamps available



#### WACO 2 X 20W INSECT KILLER FITTING

Product Code: J0014020

- Supplier Code: GC-40W



#### WACO 11W INSECT KILLER LED UV BLACK

Product Code: J0069897

- Supplier Code: GB-16L



#### WACO 13W INSECT KILLER LED UV BLACK

Product Code: J0069898

- Supplier Code: GB-30L



#### WACO MINI INSECT TRAP UV-A LED TUBE WITH INDICATOR LIGHT

Product Code: J0014235

- Supplier Code: GH1C

# GENERAL PRODUCTS

## MISCELLANEOUS



### TAPES



#### BARRIER TAPE

Product Code: H0000485

- Size: 75mm x 75mm x 500m



#### DANGER TAPE

Product Code: H0001208

- Size: 75mm x 150mm x 500m



#### DETECTOR TAPE

Product Code: H0000484

- Size: 75mm x 150mm x 500m
- Type: skull and crossbones



#### MASKING TAPE

Product Code:

18mm x 40m long | B0000017

Product Code:

24mm x 40m long | O0000615

Product Code:

48mm x 40m long | B0000027

Product Code:

36mm x 40m long | O0000616



### FLOAT SWITCHES



#### MECHANICAL SWITCHING FLOAT SWITCH

Product Code: 6m | D0002360

Product Code: 13m | D0007317

- Chemical resistant
- Can be wired for emptying or for filling
- Switch rating AC resistive load 250V 10A
- Temperature maximum: 70°C



#### MERCURY SWITCHING FLOAT SWITCH

Product Code: 6m | D0002421

Product Code: 13m | D0007316

- Chemical resistant
- Can be wired for emptying or for filling
- Switch rating AC resistive load 250V 10A
- Temperature maximum: 50°C

### MONEY SCANNER



#### PROFESSIONAL LED ULTRAVIOLET MONEY DETECTOR

Product Code: Q0009964

- Supplier Code: BJ-137
- Power voltage: 220V/50Hz
- Power consumption: 2W

## SWITCHES



### ENCLOSED ISOLATORS

- Isolators with padlock handles
- Isolators with auxiliaries available on request
- Interlock in On position
- Protection rating: IP66

Product Code	Supplier Code	Dimensions HxWxD	Rating A	kW
<b>3 Pole</b>				
L0001018	H216-41300-700N4	125 x 100 x 85	20	5.5
L0001026	H220-41300-700N4		25	7.5
L0001035	H226-41300-700N4		32	11
L0001045	H233-41300-710N4	175 x 115 x 100	40	15
L0001052	B263-41300-710N4		63	22
<b>3 Poles and Neutral</b>				
L0001056	H406-41300-730N4	250 x 160 x 120	63	22
L0001065	H408-41300-730N4		80	30
L0001076	H410-41300-730N4		100	37
<b>3 Poles and Auxiliary</b>				
L0001084	H412-41300-477N4	320 x 220 x 180	125	45



### BASE MOUNT ISOLATORS

- Isolators with extension shaft + padlock handle + door interlock, metal shaft not included. Please order separately
- Protection rating: IP66

Product Code	Supplier Code	Dimensions HxWxD	Rating A	kW
<b>3 Pole</b>				
L0001017	H216-41300-281N4	70 x 36 x 300	20	5.5
L0001025	H220-41300-281N4		25	7.5
L0001034	H226-41300-281N4		32	11
L0001044	H233-41300-281N4		40	15
L0001051	B263-41300-281N4	72 x 50 x 300	63	22
L0001057	H406-41300-281N4	80 x 70 x 300	63	22
L0001066	H408-41300-281N4		80	30
L0001077	H410-41300-281N4		100	37
L0001083	H412-41300-281N4	80 x 70 x 300	125	45



### PANEL MOUNT ISOLATORS

- Isolator with padlock handles
- Isolators with auxillaries available on request
- Protection rating: IP66

Product Code	Supplier Code	Dimensions HxWxD	Rating A	kW
3 Pole				
L0001015	H216-41300-033M4	70 x 36 x 60	20	5.5
L0001022	H220-41300-033M4		25	7.5
L0001033	H226-41300-033M4		32	11
L0001042	H233-41300-033M4		40	15
L0001050	B263-41300-281M4	70 x 50 x 60	63	22
-	H406-41300-033M4	80 x 70 x 75	63	22
L0001063	H408-41300-033M4		80	30
L0001074	H410-41300-033M4		100	37
L0001082	H412-41300-033M4		125	45



### PANEL MOUNT ROTARY CAM SWITCHES

- Front mounting/two hole mounting 20mm
- With black handle Off-On
- Auxillary contacts, neutrals and additional main poles are available on request
- Protection rating: IP66

Product Code	Supplier Code	Rating A
1 Pole		
L0001239	M220-61001-003M1	20
L0003122	M225-61001-003M1	25
-	T225-61001-003M1	32
2 Pole		
L0001240	M220-61002-003M1	20
L0003123	M225-61002-003M1	25
-	T225-61002-003M1	32
3 Pole		
L0001243	M220-61003-003M1	20
-	M225-61003-003M1	25
-	T225-61003-003M1	32
4 Pole		
-	M220-61004-003M1	20
-	M225-61004-003M1	25
-	T225-61004-003M1	32

**Note** Items above with (-) in the Product Code column are available on special request.



### CHANGE-OVER SWITCHES WITH CENTRE OFF

- 1-0-2 Panel mount

Product Code	Supplier Code	Dimensions HxWxD	Rating A
<b>1 Pole</b>			
L0001245	M220-61025-003M1	48 x 48 x L	20
-	M225-61025-003M1		25
L0003209	T225-61025-003M1		32
-	S432-61025-003M1	64 x 64 x L	50
-	S440-61025-003M1		63
L0003169	S606-61025-003M1	88 x 88 x L	80
-	S608-61025-003M1		100
-	S612-61025-003M1		160
L0003197	S825-61025-003M1	130 x 130 x L	315
<b>2 Pole</b>			
L0001247	M220-61026-003M1	48 x 48 x L	20
D0007405	M225-61026-003M1		25
L0003210	T225-61026-003M1		32
-	S432-61026-003M1	64 x 64 x L	50
-	S440-61026-003M1		63
L0003170	S606-61026-003M1	88 x 88 x L	80
L0003178	S608-61026-003M1		100
L0003186	S612-61026-003M1		160
-	S825-61026-003M1	130 x 130 x L	315
<b>3 Pole</b>			
L0001250	M220-61027-003M1	48 x 48 x L	20
L0004271	M225-61027-003M1		25
L0003211	T225-61027-003M1		32
L0001297	S432-61027-003M1	64 x 64 x L	50
D0007417	S440-61027-003M1		63
-	S606-61027-003M1	88 x 88 x L	80
L0003180	S608-61027-003M1		100
L0003187	S612-61027-003M1		160
L0003198	S825-61027-003M1	130 x 130 x L	315
<b>4 Pole</b>			
L0001252	M220-61028-003M1	48 x 48 x L	20
L0003125	M225-61028-003M1		25
L0003212	T225-61028-003M1		32
L0003154	S432-61028-003M1	64 x 64 x L	50
L0001305	S440-61028-003M1		63
L0003172	S606-61028-003M1	88 x 88 x L	80
L0003181	S608-61028-003M1		100
D0007403	S612-61028-003M1		160
L0003199	S825-61028-003M1	130 x 130 x L	315

**Note** Items above with (-) in the Product Code column are available on special request.

### PANEL MOUNT MOTOR SWITCHES



Product Code	Supplier Code	Dimensions HxWxD	Rating A
<b>Reversing 3 Phase</b>			
L0001281	M220-61211-003M1	48 x 48 x 70	20
-	M225-61211-003M1		25
L0004263	T225-61211-003M1	48 x 48 x 75	32
-	S432-61211-003M1		50
-	S440-61211-003M1	64 x 64 x 100	63
<b>2-Speed 3 Phase</b>			
L0001283	M220-61212-003M1	48 x 48 x 70	20
-	M225-61212-003M1		25
L0004244	T225-61212-003M1	48 x 48 x 75	32
-	S432-61212-003M1		50
-	S440-61212-003M1	64 x 64 x 100	63
<b>Star Delta 3 Phase</b>			
-	M220-61200-003M1	48 x 48 x 70	20
L0003123	M225-61200-003M1		25
L0003554	T225-61200-003M1	48 x 48 x 75	32
-	S432-61200-003M1		50
-	S440-61200-003M1	64 x 64 x 100	63

**Note** Items above with (-) in the Product Code column are available on special request.

## SWITCHES



### PANEL MOUNT MOTOR SWITCHES

Product Code	Supplier Code	Dimensions HxWxD	Rating A
Reversing 3 Phase			
L0001281	M220-61211-003M1	48 x 48 x 70	20
-	M225-61211-003M1		25
L0004263	T225-61211-003M1	48 x 48 x 75	32
-	S432-61211-003M1		50
-	S440-61211-003M1	64 x 64 x 100	63
2-Speed 3 Phase			
L0001283	M220-61212-003M1	48 x 48 x 70	20
-	M225-61212-003M1		25
L0004244	T225-61212-003M1	48 x 48 x 75	32
-	S432-61212-003M1		50
-	S440-61212-003M1	64 x 64 x 100	63
Star Delta 3 Phase			
-	M220-61200-003M1	48 x 48 x 70	20
L0003123	M225-61200-003M1		25
L0003554	T225-61200-003M1	48 x 48 x 75	32
-	S432-61200-003M1		50
-	S440-61200-003M1	64 x 64 x 100	63



### PANEL MOUNT MOTOR SWITCHES

- Voltmeter switches

Product Code	Supplier Code	Dimensions HxWxD	Rating A
4 Position			
-	OFF-RW-WB-BR	48 x 48 x 70	16
7 Position			
-	BN-WR-RN-OFF RW-WB-BR	48 x 48 x 70	16



### PANEL MOUNT MOTOR SWITCHES

- Ammeter switches

Product Code	Supplier Code	Dimensions HxWxD	Rating A
3 CTS			
L0003103	M220-61312-003M1	48 x 48 x 70	20
Direct			
-	M220-61328-003M1	48 x 48 x 70	20

**Note** Items above with (-) in the Product Code column are available on special request.



### ENCLOSED ISOLATORS

- "ME" series
- Size: 120 x 80mm
- Rated voltage: 240 to 415 VAC
- Threaded entries: top and bottom
- Padlockable in Off position
- Drain hole to eliminate condensation
- Protection rating: IP66

Product Code	Supplier Code	Rating A
2 Pole		
L0001934	MED220	20
-	MED225	25
L0001935	MED232	32
3 Pole + N		
L0002293	MET320	20
-	MET325	25
L0002294	MET332	32
4 Pole		
L0001936	MEF320	20
L0001937	MEF325	25
-	MEF332	32



### ENCLOSED ISOLATORS

- "E" series
- Size: 165 x 82mm
- Rated voltage: 240 to 415 VAC
- Threaded entries: top and bottom
- Padlockable in Off position
- Drain hole to eliminate condensation
- Protection rating: IP56

Product Code	Supplier Code	Rating A
2 Pole		
L0001398	WPD20ADP	20
-	WPD25ADP	25
L0001400	WPD32ADP	32
L0001943	WPD45ADP	45
L0001402	WPD63ADP	63
3 Pole + N		
L0001399	WPD20ATP	20
-	WPD25ATP	25
L0001401	WPD32ATP	32
-	WPD45ATP	45
L0001403	WPD63ATP	63
4 Pole		
-	EF420	20
-	EF425	25
-	EF432	32
-	EF345	45
-	EF363	63

**Note** Items above with (-) in the Product Code column are available on special request.

## ENCLOSED ISOLATORS



### WEATHERPROOF SWITCHED SOCKET OUTLET

- "ESS" series
- Size: 225 x 100 x 80mm
- Rated voltage: 250 VAC, 50/60Hz
- Rated current: 16A
- Threaded entries: top and bottom
- Cable entry: 1 x 25mm threaded entry
- UV resistant
- Padlockable in Off position
- Protection rating: IP66

Product Code	Supplier Code	Rating A
L0001941	ESS1666/S Mini	16
L0001940	ESS1666	16



### WEATHERPROOF UNSWITCHED SOCKET OUTLET

- "WUS" series
- Size: 100 x 100 x 90mm
- Rated voltage: 250 VAC, 50/60Hz
- Rated current: 16A
- Threaded entries: top and bottom
- Cable entry: 1 x 25mm threaded entry
- UV resistant
- Protection rating: IP66

Product Code	Supplier Code	Rating A
L0001945	WSU1666	16



### SURFACE MOUNT SWITCH SOCKET

- "M" series Switch Plug 3x3
- Metal clad surface mounted switch socket outlet
- Rated current: 16A
- Rated voltage: 250V AC
- Protection rating: IP66

Product Code	Supplier Code	Rating A
A0001975	GSSSO	16



### ALUMINIUM FIREMAN SWITCH "FS" - SERIES

Product Code	Supplier Code	Type	Current (A)
A0001577	FS220	2 Pole	20
L0003265	FS232	2 Pole	32



### BUSCH-DIN METAL CLAD

- Socket
- Wall mounted switch and interlocked (WACO System)
- Protection rating: IP44

Product Code	Supplier Code	Rating (A)	Pins P	Voltage (V)
A0000386	61425	25	3 + Earth	500
A0000387	61440	40		
A0000388	61463	63		



### BUSCH-DIN METAL CLAD

- Epoxy-coated, cast-aluminium housing
- Abrasion resistant
- High impact strength
- Protection rating: IP44

Product Code	Supplier Code	Rating (A)	Pins P	Voltage (V)
L0001405	61025	25	3 + Earth	500
L0001406	61040	40		
L0001407	61063	63		



### NOVA

- Socket
- Epoxy-coated, cast-aluminium housing
- Wall mounted switch
- Protection rating: IP44

Product Code	Supplier Code	Rating (A)	Pins P	Voltage (V)
A0000391	4084	16	3 + Earth	380
A0000392	4085	25		



### NOVA

- Plug
- Nylon housing
- Abrasion resistant
- High impact strength
- Protection rating: IP44

Product Code	Supplier Code	Rating (A)	Pins P	Voltage (V)
L0001408	2384	16	3 + Earth	380
L0001409	2385	25		



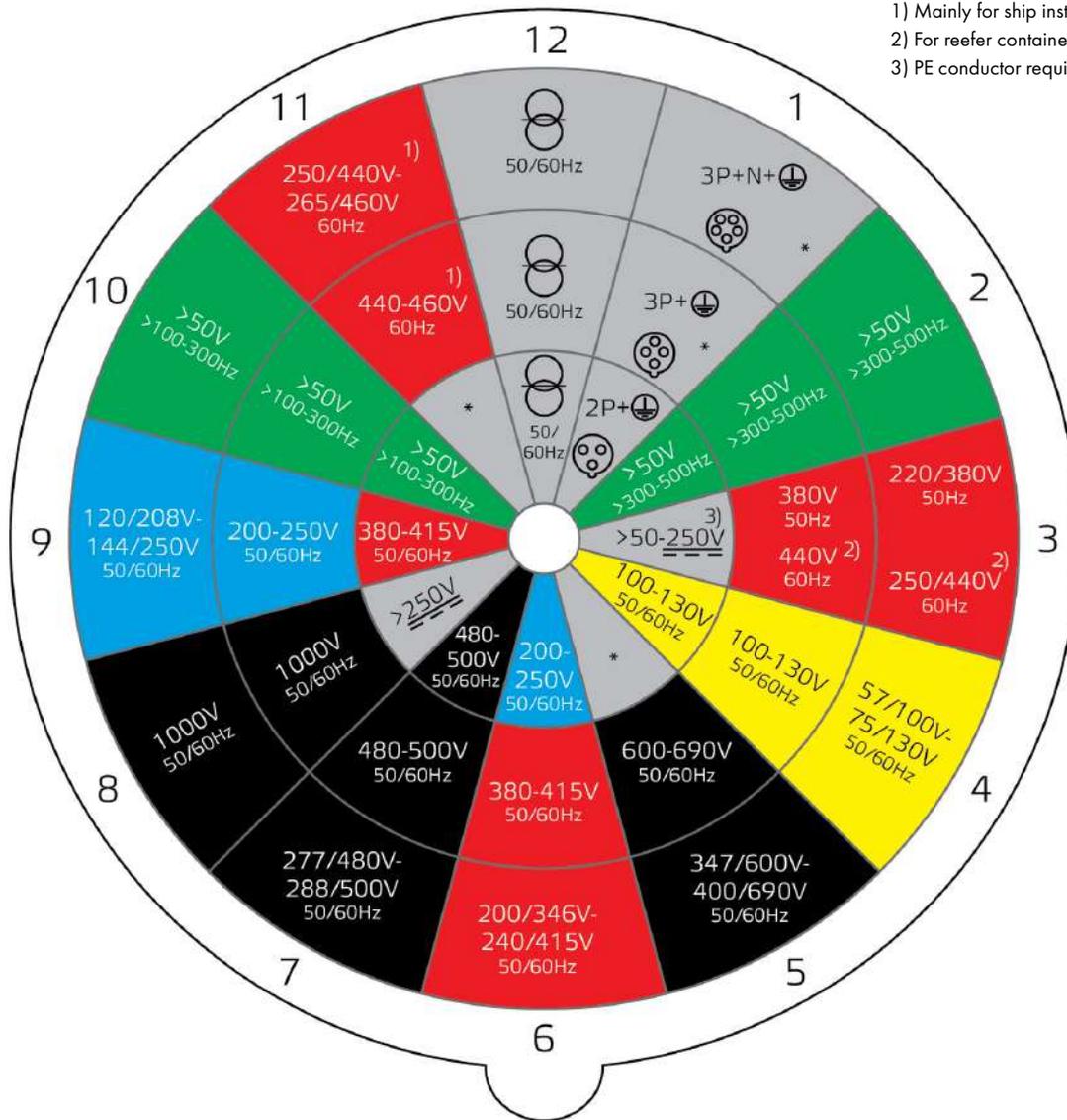
### METAL CLAD 63A SOCKET OUTLET

- Wall mounted, switch and interlocked
- Switch socket outlet with earth leakage
- Device and isolator
- Technical details:
- Colour: electric orange
- RAL B26
- Cable entries:
  - Top: 2x 25mm
  - Bottom: 1x 25mm
- Standard socket:
  - 63A 4 pin & 5 pin 380V
  - 63A 4 pin & 5 pin 500V
- Also with 525V earth leakage circuit breaker 30mA
- Protection rating: IP55

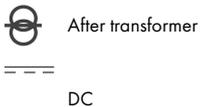
Product Code	Supplier Code	Rating (A)	Pins P	Voltage (V)
3 Pins + Earth				
L0002575	1253646-COMBI	63	4	380
L0002577	1253647-COMBI		4	500
3 Pins Neutral + Earth				
L0002578	1253656-COMBI	63	5	380
L0002579	1253657-COMBI		5	500



The illustration shows the position of the protective contact of a socket (front view) with rated operating voltages above 50 V, in accordance with DIN EN 60309-2. Plugs and inlets are mirror-inverted.



- 1) Mainly for ship installations
- 2) For reefer containers only (ISO standardised)
- 3) PE conductor required



\* All other configurations not covered by the rated operating voltage and/or frequencies. This clock face position can be additionally used in special applications when a distinction to standardised positions is required.

# POWER PRODUCTS

## INDUSTRIAL PLUGS AND SOCKETS



			SOCKET - OUTLETS										
			Panel Mounting Socket-Outlets - Straight -		Panel Mounting Socket-Outlets - Angled -		Surface mounting Socket-Outlets - Unswitched -		Surface Mounting Socket-Outlets - Switched -		Surface Mounting Switched with Interlock		Metal Clad Socket-Outlets
			IP44	IP67	IP44	IP67	IP44	IP67	IP44	IP67	IP44	IP67	IP55
Volts	Amperes	No. of Pins											
110V	16A	3		83134				103134	112134		122134	123134	
	32A	3											
	63A	3											
200V-250V	16A	3	82136	83136	92136	93136	101136	103136	112136	113136		123136	
	32A	3	82336	83336	92336	93336	101336	103336	112336	113336	122336	123336	
	63A	3		83636	92636	93636		103636					
	125A	3											
380V-415V	16A	4	82146	83146	92146	93146	101146		112146	113146		123146	
		5	82156	83156	92156	93156	101156	103156	112156	113156		123156	
		7	82176		92176	93176		103176					
	32A	4	Container Socket	83343				103343			Container Socket	123343	
		4	82346	83346	92346	93346	101346	103346	112346	113346	122346	123346	
		5	82356	83356	92356	93356	101356	103356	112356	113356	122356	123356	
	63A	7	82376		92376								
		4	82646	83646	92646	93646		103646					1253646
		5	82656	83656	92656	93656		103656					1253656
	125A	4				93846		103846					123846
		5				93856							123856
	500V (525)	16A	4	82147	83147	92147	93147			112147	113147		123147
5													
32A		4	82347	83347	92347			103347	112347	113347		123347	
		5				93647							1253647
63A		4											1253657
		5											
125A		4		83847									123847
		5											123857

### Caravan Inlets

### Caravan and Marine Plugs and Sockets



Product Code: L0001890

Product Code: L0001808

Product Code: L0000470

Product Code: L0000420

Supplier Code: 262136-01

Supplier Code: 262136

Supplier Code: 301136

Supplier Code: 201136



Surface Mounting Switch with Interlock	PLUGTOPS		APPLIANCE INLETS				COUPLERS			Complies with: DIN 49462/63 VDE 0623 IEC 60309-1/2 SANS 1239 SANS 10142 SANS 60309			
	Straight Plugtops	Metal Clad Plugtops	Surface Mounting Appliance Inlets (without lids)	Panel Mounting Appliance Inlets (without lids)	In-line Connectors (Couplers)	Metal Clad Couplers	No. of Pins	Amperes	Volts				
IP67	IP44	IP67	IP55	IP44	IP67	IP44	IP67	IP44	IP67	IP55			
		203134									3	16A	110V
											3	32A	
											3	63A	
	201136	203136		272136		292136	293136	301136	303136		3	16A	200V - 250V
	201336	203336		272336		292336		301336	303336		3	32A	
	202636	203636					293636	302636	303636		3	63A	
		203836							303836		3	125A	
	201146	203146		272146		292146	293146	301146	303146		4	16A	380V - 415V
	201156	203156		272156	273156	292156		301156	303156		5		
	201176							301176	303176		7		
	Container Plug	203343				Container Inlet	293343	Container Coupler	303343		4	32A	
	201346	203346		272346		292346	293346	301346	303346	3053646	4		
	201356	203356		272356	273356	292356	293346	301356	303356	3053656	5		
	201376	203376		273376				301376	303376		7		
123646	202646	203646	2053646		273646		293646		303646	3053646	4	63A	
123656	202656	203656	2053656		273656		293656		303656		5		
		203846			273846		293846		303846		4	125A	
		203856			273856		293856		303856		5		
	201147	203147							303147		4	16A	
											5		
	201347	203347							303347		4	32A	500V (525)
123647		203647	2053647						303647	3053647	4	63A	
123657		203657	2053657						303657	3053657	5		
		203847			273847				303847		4	125A	
		203857									5		

### QUICK CONNECT by Bals



- Screwless terminals based on a patented spring loaded contact
- Maintenance free, vibration & thermal shock approved wiring technology
- Complete CEE product range available from 16A/3p up to 63A/5p in all configurations
- Easy to use for every installer, wiring without special tools, skills or training
- Accepts all conductor types (flexible, solid and other), easy rewiring
- Time (75% faster) & money saving cable lugs-terminals are not necessary for wiring

# POWER PRODUCTS

## ENCLOSURES



### TERMINAL BOXES



Product Code	Supplier Code	Dimensions HxWxD (mm)	Description
L0001097	001.CS	65 x 40	Press on lid
L0001098	002.CS	80 x 40	Press on lid
L0001099	003.CS	80 x 40 x 40	Press on lid
L0001100	005.CS	100 x 100 x 50	Screw on lid



Product Code	Supplier Code	Dimensions HxWxD (mm)	Description
L0001101	006.PL	100 x 100 x 65	Enclosure with grey screw on lid
L0001102	007.PL	125 x 75 x 50	
L0001105	008.PL	150 x 110 x 70	
L0001108	009.PL	190 x 145 x 70	
L0001112	010.PL	240 x 190 x 90	
L0001115	011.PL	240 x 190 x 110	



Product Code	Supplier Code	Dimensions HxWxD (mm)	Description
L0001104	008.CA.G	150 x 110 x 135	Enclosure with grey screw on lid
L0001107	009.CA.G	190 x 145 x 135	
L0001111	010.CA.G	240 x 190 x 155	
L0001116	012.CA.G	310 x 230 x 160	
L0001121	014.CA.G	380 x 300 x 180	
L0001124	015.CA.G	460 x 380 x 180	



Product Code	Supplier Code	Dimensions HxWxD (mm)	Description
C0001243	008.PK	150 x 110 x 70	Enclosure with clear screw on lid
C0001244	009.PK	190 x 145 x 70	
C0001245	010.PK	240 x 190 x 90	
C0001246	011.PK	240 x 190 x 110	
C0001248	012.PK	310 x 230 x 115	



Product Code	Supplier Code	Dimensions HxWxD (mm)	Description
-	009.A.PL	150 x 140 x 70	Enclosure with grey hinged lid
-	010.A.PL	240 x 190 x 90	
C0001247	012.A.PL	300 x 220 x 115	
L0001120	014.A.PL	380 x 300 x 120	
L0001123	015.A.PL	460 x 380 x 120	

## DISTRIBUTION BOXES



Product Code	Supplier Code	Dimensions HxWxD (mm)	Description
L0001167	91.08	200 x 160 x 90	Surface DB 8 mod
L0001168	91.12	225 x 200 x 110	Surface DB 12 mod



Product Code	Supplier Code	Dimensions HxWxD (mm)	Description
L0001169	92.04	160 x 120 x 90	Surface mount Din 4 way
L0001170	92.08	200 x 160 x 90	Surface mount Din 8 way
L0001171	91.12	250 x 200 x 110	Surface mount Din 12 way



Product Code	Supplier Code	Dimensions HxWxD (mm)	Description
L0002856	920.12	250 x 250 x 140	Surface DB 12 mod
L0001172	920.24	375 x 250 x 140	Surface DB 24 mod

**Note** Items above with (-) in the Product Code column are available on special request.

# POWER PRODUCTS

## ENCLOSURES



### DISTRIBUTION BOXES



Product Code	Supplier Code	Dimensions HxWxD (mm)	Description
L0001175	940.12	325 x 200 x 90	Surface DB 12 mod
L0001177	940.24	420 x 293 x 133	Surface DB 24 mod
-	940.36	463 x 408 x 133	Surface DB 36 mod



Product Code	Supplier Code	Dimensions HxWxD (mm)	Description
L0001155	6.8200	250 x 125 x 80	Enclosure + lid 6 mod



Product Code	Supplier Code	Dimensions HxWxD (mm)	Description
L0001183	960.30031	440 x 135 x 110	Site DB 6 mod



Product Code	Supplier Code	Dimensions HxWxD (mm)	Description
L0001181	960.20001	240 x 190 x 110	Site DB 4 mod



Product Code	Supplier Code	Dimensions HxWxD (mm)	Description
L0001178	960.10011	360 x 260 x 110	Site DB 12 mod
L0001179	960.10021	440 x 340 x 110	Site DB 14 mod

**Note** Items above with (-) in the Product Code column are available on special request.



### CARAVAN PARK DISTRIBUTION BOARDS



- 2 or 4 socket outlets
- Overload protection: each socket is fitted with a 16A 1P 6kA MCB
- Safety: each board is fitted with a 63A 30mA earth leakage device
- Weather protection: UV stabilised insulated enclosures are IP44 rated

Product Code	Supplier Code	Dimensions HxWxD (mm)	Description
L0001090	CAR-DB-4W	310 x 230 x 150	4 way caravan site DB



Product Code	Supplier Code	Dimensions HxWxD (mm)	Description
L0001089	CAR-DB-2W	440 x 135 x 150	2 way caravan site DB



### DISTRIBUTION BOARDS

#### FLUSH MOUNT WACO DISTRIBUTION BOARDS



- Distribution board complete with earth and neutral bar and DIN rail
- Distribution board with metal tray and poly cover for din rail mount MCB only

Product Code	Cover Dimensions (mm)			Tray Dimensions (mm)			Description
	H	W	D	H	W	D	
C0001694	298	203	95	280	185	76	12 way
C0001696	378	238	95	367	216	76	16 way
C0001698	310	370	95	282	340	76	24 way

#### SURFACE MOUNT WACO DISTRIBUTION BOARDS



- Distribution board complete with earth and neutral bar and DIN rail
- Distribution board with poly base and cover

Product Code	Dimensions (mm)			Description
	H	W	D	
C0001688	323	230	93	12 way
C0001690	398	248	93	16 way
C0001692	323	382	93	24 way

## ENCLOSURES



### CR RANGE MILD STEEL ENCLOSURES

- Enclosures are supplied with base plates, gland plates and wall mounting brackets
- Available in electric orange and grey
- Material: sheet steel 1.4mm - 2.0mm (door CR64 onwards is 2.0mm)
- Protection rating: IP55

Product Code (Grey)	Product Code (Orange)	Supplier Code	Dimensions HxWxD (mm)	Gland Plates	Locks
C0001196	L0000030	CR252010	250 x 200 x 100	0	1
C0001197	L0000031	CR252015	250 x 200 x 150	0	1
L0000033	L0000032	CR302515	300 x 250 x 150	1	1
-	C0000917	CR302520	300 x 250 x 200	1	1
-	L0000035	CR303020	300 x 300 x 200	1	1
L0000037	L0011641	CR403020	400 x 300 x 200	1	1
-	L0000038	CR403030	400 x 300 x 300	1	1
C0001200	L0011642	CR404020	400 x 400 x 200	1	1
-	L0011643	CR504020	500 x 400 x 200	1	1
L0000043	L0000042	CR504025	500 x 400 x 250	1	1
-	L0000044	CR505020	500 x 500 x 200	1	1
-	L0000045	CR505025	500 x 500 x 250	1	1
-	L0011644	CR604020	600 x 400 x 200	2	2
C0001202	L0000047	CR604025	600 x 400 x 250	2	2
-	L0000048	CR605025	600 x 500 x 250	2	2
-	L0000049	CR606025	600 x 600 x 250	2	2
C0001203	L0000050	CR606030	600 x 600 x 300	2	2
L0000052	L0011645	CR705025	700 x 500 x 250	2	2
C0001205	L0011646	CR806025	800 x 600 x 250	2	2
C0001206	L0000056	CR808030	800 x 800 x 300	4	2
C0001194	L0011647	CR1008030	1000 x 800 x 300	4	2
C0001195	L0011648	CR1208030	1200 x 800 x 300	4	2



### CT RANGE MILD STEEL ENCLOSURES

- Protection rating: IP66

Product Code	Supplier Code	Dimensions HxWxD (mm)
L0000058	CT151512	150 x 150 x 120
L0000059	CT202012	200 x 200 x 120

**Note** Items above with (-) in the Product Code column are available on special request.



### CRX RANGE STAINLESS STEEL ENCLOSURES

- Enclosures are supplied with base plates and gland plates
- SS304 with hairline finish
- Material: stainless steel 1.5mm - 2.0mm (door CRX86 onwards is 2.0mm)
- Protection rating: IP65

Product Code	Supplier Code	Dimensions HxWxD (mm)	Gland Plates	Locks
L0000018	CRX302515	300 x 250 x 150	1	1
L0000019	CRX303015	300 x 300 x 150	1	1
L0000020	CRX403020	400 x 300 x 200	1	1
L0000021	CRX404020	400 x 400 x 200	1	1
L0000022	CRX504020	500 x 400 x 200	1	2
L0000023	CRX604020	600 x 400 x 200	1	2
L0000024	CRX606025	600 x 600 x 250	1	2
L0000025	CRX705025	700 x 500 x 250	1	2
L0000026	CRX806025	800 x 600 x 250	1	2
L0000016	CRX1008030	1000 x 800 x 300	2	2
L0000017	CRX1208030	1200 x 800 x 300	2	2



### MILD STEEL ENCLOSURES

- Enclosures are supplied with base plates and gland plates
- Colour: electric orange
- Material: sheet steel 1.2mm
- Protection rating: IP66

Product Code	Supplier Code	Dimensions HxWxD (mm)	Gland Plates	Locks
C0001221	ST2-2515	250 x 200 x 150	1	1
L0002226	ST2-315	300 x 200 x 150	1	1
L0002213	ST25-320	300 x 250 x 200	1	1
L0002214	ST3-320	300 x 300 x 200	1	1
C0001222	ST3-415	400 x 300 x 150	1	1
L0002215	ST3-420	400 x 300 x 200	1	1
C0001223	ST4-420	400 x 400 x 200	1	1
L0002216	ST4-520	500 x 400 x 200	1	1
L0002217	ST5-520	500 x 500 x 200	1	1
L0002218	ST5-520	600 x 400 x 200	1	1
C0001461	ST5-625	600 x 500 x 250	1	2
L0002221	ST5-720	700 x 500 x 200	1	2
L0002220	ST5-725	700 x 500 x 250	1	2
L0002219	ST4-730	700 x 500 x 300	1	2
C0001224	ST6-825	800 x 600 x 250	1	2
C0001225	ST8-103	1000 x 800 x 300	2	3
C0001226	ST8-123	1230 x 800 x 300	2	3



## ELECTRONIC SOUNDERS



### E2S ELECTRONIC SOUNDERS



#### A100 SOUNDER AND AL100 COMBO

- The E2S range of sounder and combination units have been designed to perform at maximum capacity for as long as required.
- The sound output can be decreased by means of a volume control.
- The standard colour is red, but these units are also available in grey.

Product Code	Supplier Code	Description
L0022523	ESY3024	A100 10-30VDC 300M
L0022524	ESY3025	A100 24VAC 300M
L0022525	ESY3110	A100 110VAC 300M
L0022526	ESY3220	A100 220VAC 300M
L0022483	ECY3R01	AL100 10-30VDC 300M RED
L0022484	ECY3A01	AL100 12VDC 300M AMBER
L0022485	ECY3R02	AL100 24VDC 300M RED
L0022486	ECY3A02	AL100 24VDC 300M AMBER
L0022487	ECY3R04	AL100 110VAC 300M RED
L0022488	ECY3A04	AL100 110VAC 300M AMBER
L0022489	ECY3R05	AL100 220VAC 300M RED
L0022490	ECY3A05	AL100 220VAC 300M AMBER

Specifications				
Voltage	10-30 Vdc	24 Vac	110 Vac	220 Vac
Duty cycle	Continuous			
Sound output	104 dB(A) at 1m			
Sound frequency	340/2400Hz (depends on tone selection)			
Sound select	32 user selectable tones with a 3 stage alarm option			
App. range	300m in still air on an open field			
Current consumption	25mA	40mA	13mA	13mA
Current consumption (combo)	12V - 525mA	405mA	120mA	65mA
Lens colour	Red, amber, green or blue			
IP rating	Sounder - IP66		Combo - IP66	
Weight (g)	Sounder - 370		Combo - 570	
Packing dimensions (mm)	Sounder - 110 x 110 x 90		Combo - 190 x 110 x 190	



### A105 SOUNDER AND AL105 COMBO

- The E2S range of sounder and combination units have been designed to perform at maximum capacity for as long as required.
- The sound output can be decreased by means of a volume control.
- The standard colour is red, but these units are also available in grey and white.

Product Code	Supplier Code	Description
L0022527	ESY5024	A105 10-30VDC 500M
L0022473	ESY5025	A105 24VAC 500M
L0022474	ESY5110	A105 110VAC 500M
L0022475	ESY5220	A105 220VAC 500M
L0022491	ECY5R01	AL105 12VDC 500M RED
L0022492	ECY5A01	AL105 12VDC 500M AMBER
L0022493	ECY5R02	AL105 24VDC 500M RED
L0022494	ECY5A02	AL105 24VDC 500M AMBER
L0022495	ECY5R04	AL105 110VAC 500M RED
L0022496	ECY5A04	AL105 110VAC 500M AMBER
L0022497	ECY5R05	AL105 220VAC 500M RED
L0022498	ECY5A05	AL105 220VAC 500M AMBER

Specifications				
Voltage	10-30 Vdc	24 Vac	110 Vac	220 Vac
Duty cycle	Continuous			
Sound output	112 dB(A) at 1m			
Sound frequency	340/2400Hz (depends on tone selection)			
Sound select	32 user selectable tones with a 3 stage alarm option			
App. range	500m in still air on an open field			
Current consumption	25mA	40mA	20mA	15mA
Current consumption (combo)	12V - 525mA	275mA	120mA	65mA
Lens colour	Red, amber, green or blue			
IP rating	Sounder - IP66		Combo - IP66	
Weight (kg)	Sounder - 1		Combo - 1.2	
Packing dimensions (mm)	Sounder - 150 x 150 x 140		Combo - 150 x 220 x 150	

## ELECTRONIC SOUNDERS



### A112 SOUNDER AND AL112 COMBO

- The E2S range of sounder and combination units have been designed to perform at maximum capacity for as long as required.
- The sound output can be decreased by means of a volume control.
- The standard colour is red, but these units are also available in grey and white.

Product Code	Supplier Code	Description
L0003336	ESY8024	A112 10-30VDC 800M
L0022476	ESY8025	A112 24VAC 800M
L0022477	ESY8110	A112 110VAC 800M
L0022478	ESY8220	A112 220VAC 800M
L0022499	ECY8R01	AL112 12VDC 800M RED
L0022500	ECY8A01	AL112 12VDC 800M AMBER
L0022501	ECY8R02	AL112 24VDC 800M RED
L0022502	ECY8A02	AL112 24VDC 800M AMBER
L0022503	ECY8R04	AL112 110VAC 800M RED
L0022504	ECY8A04	AL112 110VAC 800M AMBER
L0022505	ECY8R05	AL112 220VAC 800M RED
L0022506	ECY8A05	AL112 220VAC 800M AMBER

Specifications				
Voltage	10-30 Vdc	24 Vac	110 Vac	220 Vac
Duty cycle	Continuous			
Sound output	119 dB(A) at 1m			
Sound frequency	340/2400Hz (depends on tone selection)			
Sound select	45 user selectable tones with a 3 stage alarm option			
App. range	800m in still air on an open field			
Current consumption	200mA	500mA	100mA	60mA
Current consumption (combo)	700mA	450mA	170mA	95mA
Lens colour	Red, amber, green or blue			
IP rating	Sounder - IP66		Combo - IP66	
Weight (kg)	Sounder - 2.1		Combo - 2.3	
Packing dimensions (mm)	Sounder - 200 x 200 x 160		Combo - 200 x 160 x 260	



### A121 SOUNDER AND AL121 COMBO

- The E2S range of sounder and combination units have been designed to perform at maximum capacity for as long as required.
- The sound output can be decreased by means of a volume control.
- The standard colour is red, but these units are also available in grey.

Product Code	Supplier Code	Description
L0022479	ESY9024	A121 10-30VDC 1000M
L0022480	ESY9025	A121 24VAC 1000M
L0022481	ESY9110	A121 110VAC 1000M
L0022482	ESY9220	A121 220VAC 1000M
L0022507	ECY9R01	AL121 12VDC 1000M RED
L0022508	ECY9A01	AL121 12VDC 1000M AMBER
L0022509	ECY9R02	AL121 24VDC 1000M RED
L0022510	ECY9A02	AL121 24VDC 1000M AMBER
L0022511	ECY9R04	AL121 110VAC 1000M RED
L0022512	ECY9A04	AL121 110VAC 1000M AMBER
L0022513	ECY9R05	AL121 220VAC 1000M RED
L0022514	ECY9A05	AL121 220VAC 1000M AMBER

Specifications				
Voltage	10-30 Vdc	24 Vac	110 Vac	220 Vac
Duty cycle	Continuous			
Sound output	126 dB(A) at 1m			
Sound frequency	340/2400Hz (depends on tone selection)			
Sound select	45 user selectable tones with a 3 stage alarm option			
App. range	1000m in still air on an open field			
Current consumption	950mA	1000mA	240mA	120mA
Current consumption (combo)	1450mA	1200mA	310mA	155mA
Lens colour	Red, amber, green or blue			
IP rating	Sounder - IP66		Combo - IP66	
Weight (kg)	Sounder - 2.7		Combo - 2.9	
Packing dimensions (mm)	Sounder - 220 x 220 x 220		Combo - 220 x 280 x 200	

## ELECTRONIC SOUNDERS



### E2S BEACONS



#### E2S XENON BEACONS

- The E2S Xenon Beacon can be used for any application where a visual warning indicator is required.
- Seven lens colours are available.

Product Code	Supplier Code	Description
L0022515	EBXA012	L101 12VDC AMBER
L0022516	EBXR012	L101 12VDC RED
L0022517	EBXA024	L101 24VDC AMBER
L0022518	EBXR024	L101 24VDC RED
L0022521	EBXA110	L101 110VAC AMBER
L0022522	EBXR110	L101 110VAC RED
L0022519	EBXA220	L101 220VAC AMBER
L0022520	EBXR220	L101 220VAC RED

Specifications				
Voltage	12Vdc	24 Vac	110 Vac	220 Vac
Colour LED	Red, amber, yellow, clear, opal, blue and green			
Duty cycle	Continuous rated			
Light source	5 Joule Xenon @ 1Hz			
Current consumption	500mA	300mA	70mA	35mA
IP rating	IP66			
Weight (g)	200			
Packing dimensions (mm)	100 x 100 x 100			

#### BANSHEE ELECTRONIC SOUNDERS



#### MULTITONE

Product Code	Supplier Code	IP Rating	Description
L0001798	BEMT930	IP44	MULTITONE EXCEL 9 - 30V DC
L0002507	BEMT048	IP44	MULTITONE EXCEL 48V AC/DC
L0014425	BEMT931	IP65	MULTITONE EXCEL 9 - 30V DC DEEP BASE
L0003940	BEMT122	IP65	MULTITONE EXCEL 110 - 220V AC

Specifications			
Voltage	9 - 30Vdc	110Vac	220Vac
Duty cycle	Continuous		
Sound output	110dB(A) at 1m/32 selectable tones		
Sound frequency	420 - 2900Hz		
App. range	600m in still air on an open field		
Current consumption	The amps vary from 40 - 70mA depending on the sound selection		
Weight (g)	200		
Packing dimensions (mm)	100 x 100 x 100		



#### FLASHTONE

Product Code	Supplier Code	IP Rating	Description
L0002508	BFER930	IP44	FLASHTONE EXCEL R/R 9 - 30V DC
L0014463	BFER931	IP65	FLASHTONE EXCEL R/R 9 - 30V DC DEEP BASE
L0001799	BFER220	IP65	FLASHTONE EXCEL R/R 110 - 220V AC

Specifications			
Voltage	9 - 30Vdc	110Vac	220Vac
Duty cycle	Continuous		
Sound output	110dB(A) at 1m/32 selectable tones		
Sound frequency	420 - 2900Hz		
App. range	600m in still air on an open field		
Current consumption	14V - 90mA/24V - 40mA		
Lens colour	Amber, yellow, red, green, blue		
Weight (g)	220		
Packing dimensions (mm)	100 x 100 x 100		

# POWER PRODUCTS

## MAINTENANCE CHEMICALS



### PRECISION CLEANERS



#### QD CONTACT CLEANER

**Product Code: L0000837**

- Supplier Code: 2130
- Plastic safe, quick drying and leaves no residue. Ideal for applications where lower flash-point solvents can be used. Flammable, quick drying, complete evaporation.
- Applications: Telephones, PCs, relays, edge connectors, tape heads, bus bars, circuits, contacts, printed circuit boards, switches and breakers.



#### ISOPROPYL ALCOHOL PRECISION CLEANER

**Product Code: L0002284**

- Supplier Code: 3201
- A quick drying light-duty precision cleaner for use in industrial, electrical, electronic and aviation applications. Its 99% pure formula aggressively dissolves grease, dust, dirt, lint, oils and flux from most non-plastic surfaces. Recommended for light duty cleaning and degreasing.
- Applications: Removal of dirt, adhesives, silicones, anti-oxidation compounds and other contaminants from the semi-conductive cores of high voltage cables when splicing and terminating cables.



#### CONTACT CLEANER 2000

**Product Code: L0021882**

- Supplier Code: 2140
- Non-flammable precision cleaner which rapidly and completely evaporates and assists with thermal stability. It also removes light contaminants, atmospheric oils, dust and lint from precision electrical and electronic equipment. Non-flammable, safe on most plastics, complete evaporation.
- Applications: Contacts, circuit breakers, switches, relays, meters, light bulb sockets, control systems and coils where lubricating and corrosion protection is required.



#### FREEZE SPRAY

**Product Code: L0000819**

- Supplier Code: 14086
- Aerosol coolant system that instantly freezes surfaces to -51°C (-60°F), dissipating heat and cooling equipment, and also assists in locating thermal intermittent components, failures and safe to use on sensitive components and all surface niches. Dries instantly, leaves no residue and is non-abrasive.
- Applications: Thermal intermittent, computers office equipment, electronics, video, audio and communication equipment, data processing equipment, circuit boards, lab equipment, clean rooms, plant machinery and more.



#### CO CONTACT CLEANER

**Product Code: L0000828**

- Supplier Code: 2016
- Formula contains no known ozone depleting substances or VOCs. The non-chlorinated, nonflammable, plastic safe formula is an optimal alternative to CFC, HCFC and flammable contact cleaners.
- Applications: Electrical connectors, printed circuit boards, relays, switches, scales, timers and other electrical and electronic equipment.



**KEY:** Icons are an indication of use. However, please refer to PDS and SDS for accurate information.





### PRECISION CLEANERS



#### NF CONTACT CLEANER

**Product Code: L0000829**

- Supplier Code: 2017
- A revolutionary, technically proven, stable, no flash point, and non-flammable, inert high purity cleaning solvent. Non-conductive, non-corrosive, non-staining, rapid complete evaporation and contains no lubricants.
- Applications: Recommended for cleaning relays, switches, circuit breakers, alarm and signal systems, printed circuit boards, connectors, generators, contacts, laboratory and test equipment, motor and motor controls, sensors, flux removal, terminals, plugs and jacks



#### DUSTER

**Product Code: L0015669**

- Supplier Code: 5185
- Moisture-free dust and lint remover that effectively removes dirt, dust, lint and other contaminants with a dry blast of air. Safely eliminates debris from sensitive electronics, appliances and equipment.
- Applications: Circuit breakers, computer components, contacts, electronics, lab equipment, light sockets, locks, office equipment, PC boards, PCs, photographic equipment, radios, PCV Valve, sensors, smoke detectors, stereos, switches, telephones, televisions, VCRs.



#### CONTACT CLEANER AND PROTECTANT

**Product Code: L0000848**

- Supplier Code: 3140
- Cleans away grease, oil, dirt and other contaminants and helps equipment perform like new. Leaves a fine, microscopic corrosion proof and lubricating film.
- Applications: Contacts, circuit breakers, switches, relays, meters, light bulb sockets, control systems and coils where lubricating and corrosion protection is required.



#### SMART WASHER®

**Product Code: -**

- Supplier Code: 14740
- Model Number: SW23
- Environmentally friendly mobile parts washer kit.
- Non-toxic, non-polluting, non-corrosive, non-flammable, non-hazardous



#### SMART WASHER®

**Product Code: -**

- Supplier Code: 14741
- Model Number: SW37
- Environmentally friendly heavy weight parts washer kit.
- Non-toxic, non-polluting, non-corrosive, non-flammable, non-hazardous

**Note** Items above with (-) in the Product Code column are available on special request.

# POWER PRODUCTS

## MAINTENANCE CHEMICALS



### INDUSTRIAL DEGREASERS AND CLEANERS



#### LECTRA CLEAN

**Product Code: L0000830**

- Supplier Code: 2018
- Quickly and effectively removes grease, oil, tar, dirt, grime corrosion, sludge and other stubborn substances to increase operating efficiency of electric motors and equipment. It offers quick and effective degreasing action, fast evaporation and leaves no residue.
- Applications: Energised electrical cleaner.



#### LECTRA CLEAN

**Product Code: L0002741**

- Supplier Code: 2020
- Quickly and effectively removes grease, oil, tar, dirt, grime corrosion, sludge and other stubborn substances to increase operating efficiency of electric motors and equipment. It offers quick and effective degreasing action, fast evaporation and leaves no residue.
- Applications: Energised electrical cleaner.



#### HYDRO-FORCE INDUSTRIAL STRENGTH DEGREASER

**Product Code: L0000820**

- Supplier Code: 14414
- Upon contact instantly begins to hunt-down, break-up and lift-off heavy deposits of grease, oil and dirt. Non-flammable, safe on most plastics, biodegradable and non-abrasive. Perfect for machinery, motors, concrete and non-porous surfaces. Use caution on soft metals and painted surfaces.
- Applications: Tools, grills, tyres, engines, drives, motors, shop equipment, lawn equipment, fabric, floors, appliances, vents, tubs, sinks, showers, plastic, fibreglass, canvas, vinyl, pressure washers, vehicle washing, walls, chrome, stainless steel, polished metals, etc.



#### HYDRO-FORCE INDUSTRIAL STRENGTH DEGREASER

**Product Code: L0000821**

- Supplier Code: 14416
- Upon contact instantly begins to hunt-down, break-up and lift-off heavy deposits of grease, oil and dirt. Non-flammable, safe on most plastics, biodegradable and non-abrasive. Perfect for machinery, motors, concrete and non-porous surfaces. Use caution on soft metals and painted surfaces.
- Applications: Tools, grills, tyres, engines, drives, motors, shop equipment, lawn equipment, fabric, floors, appliances, vents, tubs, sinks, showers, plastic, fibreglass, canvas, vinyl, pressure washers, vehicle washing, walls, chrome, stainless steel, polished metals, etc.



**Note** Items above with (-) in the Product Code column are available on special request.

**KEY:** Icons are an indication of use. However, please refer to PDS and SDS for accurate information.





### INDUSTRIAL DEGREASERS AND CLEANERS



#### LECTRA CLEAN II LOW VOC

**Product Code: —**

- Supplier Code: 2120
- Upon contact it instantly begins to hunt-down, break-up and lift-off heavy deposits of grease, oil and dirt. Non-flammable, safe on most plastics, biodegradable and non-abrasive. Perfect for machinery, motors, concrete and non-porous surfaces. Use caution on soft metals and painted surfaces.
- Applications: Electric motors, fusible disconnects, switch-gears, transformers, circuits, insulators, relays, switches, air tools, mechanical brakes, clutches, chains, bearings, generators, compressors, pumps, tools, dies, molds and many other electrical/industrial equipment.



#### LECTRA CLEAN II LOW VOC

**Product Code: —**

- Supplier Code: 2121
- Upon contact it instantly begins to hunt-down, break-up and lift-off heavy deposits of grease, oil and dirt. Non-flammable, safe on most plastics, biodegradable and non-abrasive. Perfect for machinery, motors, concrete and non-porous surfaces. Use caution on soft metals and painted surfaces.
- Applications: Electric motors, fusible disconnects, switch-gears, transformers, circuits, insulators, relays, switches, air tools, mechanical brakes, clutches, chains, bearings, generators, compressors, pumps, tools, dies, molds and many other electrical/industrial equipment.



#### BRAKLEEN

**Product Code: L0000858**

- Supplier Code: 5089
- Quickly and safely removes brake fluid, grease, oil and other contaminants from brake linings, pads, drums and callipers. Non-staining, non-corrosive and leaves no residue. Safely settles and removes asbestos dust from brake assemblies, preventing inhalation of airborne particles.
- Applications: ABS, disc, drum, brake cylinders, brake drums, brake linings, brake shoes, callipers, clutch discs, disc brake pads, discs. Safe for use on all brake systems, including springs and wedge brakes.



#### NATURAL DEGREASER

**Product Code: —**

- Supplier Code: 14005
- A blend of natural citrus and organic solvents that effectively clean and degrease. Leaves no sticky residue.
- Applications: Air tools, mechanical brakes, clutches, chains, wire ropes, motors, dies, molds, parts, bearings, generators and compressors.



**Note** Items above with (-) in the Product Code column are available on special request.

# POWER PRODUCTS

## MAINTENANCE CHEMICALS



### LUBRICANTS



#### ELECTRICAL SILICONE LUBRICANT

**Product Code: L0000835**

- Supplier Code: 2094
- Specially formulated to lubricate, waterproof and protect electrical components. Meets FDA Regulation CFR 21-178.3570 for incidental food contact. NSF H1 Registered.
- Applications: Helps prevent corrosion to electrical equipment located in wet or harsh environments.



#### COPPER ANTI-SEIZE

**Product Code: L0002737**

- Supplier Code: 14095
- A general purpose anti-seize lubricant that prevents seizing caused by high temperature, heavy loads, vibrations and corrosion. Working temperature -53°C - +982°C.
- Applications: Recommended to lubricate fittings, bushings, flanges, headers, nuts, screws, studs, threaded surfaces, pipes, plugs and manifolds to prevent seizing and galling of surfaces.



#### 2-26 MULTI-PURPOSE LUBRICANT

**Product Code: L0000827**

- Supplier Code: 92005
- Plastic safe lubricant, penetrant and corrosion inhibitor that helps prevent electrical malfunctions caused by water penetration, humidity, condensation or corrosion. Restores resistance values and helps stop current leakage.
- Applications: Connectors, relays, circuit breakers, transformers, switchgear, motors, generators, controls, instruments, communication assemblies, electronics, alarm systems, starters, tubing, castings, gears, weld rod, wire, fixtures, dies, jigs, shim stock, chucks.



#### 3-36 MULTI-PURPOSE LUBRICANT AND CORROSION INHIBITOR

**Product Code: L0000838**

- Supplier Product Code: 3005
- Multi-purpose lubricant, penetrant and corrosion inhibitor. Forms a clear, thin film that lubricates, prevents corrosion, displaces moisture, penetrates and cleans.
- Applications: Tubing, castings, gears, weld rod, wire, fixtures, dies, jigs, shim stock, chucks, drill rod, heat treated parts, machined surfaces, finished welds, aluminium extrusions, air actuated tools, conveyors, frozen joints, locks, hoists, etc.

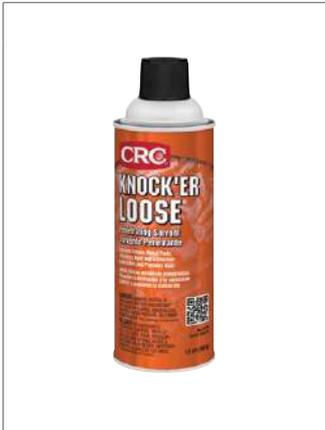


**KEY:** Icons are an indication of use. However, please refer to PDS and SDS for accurate information.





### LUBRICANTS



#### KNOCK'ER LOOSE

**Product Code:** L0021533

- Supplier Code: 3020
- An industrial strength, low viscosity super penetrant designed to quickly loosen and free seized, bound or frozen fasteners. Quickly permeates rust, scale, gum, grease and corrosion on nuts and bolts, pins, screws, bushings, clips, hinges, snaps, lugs, caps, locks, washers and sliding mechanisms.
- Applications: Nuts and bolts, pins, screws, bushings, clips, hinges, snaps, lugs, caps, locks, washers and sliding mechanisms.



#### KNOCK'ER LOOSE PLUS PENETRATING SOLVENT

**Product Code:** —

- Supplier Code: 3027
- A unique penetrant that immediately drops the temperature of the area in contact with the spray. The freeze shock action cracks rusted surfaces allowing it to reach deeper and work more effectively than other penetrants.
- Applications: Nuts and bolts, pins, screws, bushings, clips, hinges, snaps, lugs, caps, locks, washers and sliding mechanisms.



#### CHAIN AND WIRE ROPE LUBRICANT

**Product Code:** L0000842

- Supplier Code: 3050
- Extends the working life of chains and wire rope and reduces wear caused by friction and corrosion. Resists water wash-off and high temperature sling-off. Absorbs pin/bushing shock and cushions rollers, pins and bushings. Can be applied with guards in place to eliminate costly downtime.
- Applications: Low speed conveyor, drive chains, hoists, winches, pulleys, cushion pins, rollers, garage doors, bushings, seals, o-rings, and come-alongs.



#### DRY PTFE LUBE

**Product Code:** L0000840

- Supplier Code: 3044
- Multi-purpose, micro-thin film lubricant containing PTFE that penetrates and bonds to most surfaces including metal, wood, rubber, plastic and glass. Prevents sticking, reducing friction and wear, while sealing out moisture.
- Applications: Hinges, locks, catches, pulleys, conveyors, machine parts, chutes and slides, coin mechanisms, window guides, drawers, rollers, control buttons, switches, electrical wires and harnesses.



#### DRY MOLY LUBE

**Product Code:** —

- Supplier Code: 3084
- Lowers friction, prevents galling and helps to reduce torque and energy consumption. High antifriction and anti-seizure properties. Fast drying film resists dirt and dust build-up.
- Applications: Gaskets, transfer belts, conveyor belts, motors, plant machinery and handling equipment, rubber moldings, high temperature, low load, or high rpm slides, rollers, wheels, gears, chains and hoists.



#### DRY GRAPHITE LUBE

**Product Code:** —

- Supplier Code: 3094
- Ideal where a dry lubricant is required or where petroleum products must be avoided. Resists dirt, dust and oil build-up. Working temperature 454.4°C (constant) 537.8°C (intermittent).
- Applications: Gaskets, transfer belts, conveyor belts, motors, plant machinery and handling equipment, rubber moldings, high temperature, low load, or high rpm slides, rollers, wheels, gears, chains and hoists.



**Note** Items above with (-) in the Product Code column are available on special request.

# POWER PRODUCTS

## MAINTENANCE CHEMICALS



### LUBRICANTS



#### DI-ELECTRIC GREASE

**Product Code: L0017668**

- Supplier Code: 3082
- Non-curing silicone compound used for electrical sealing, lubricating, protecting and insulating. Waterproofs electrical connections and components. Improves electrical performance in adverse weather conditions.
- Applications: Electrical panels, outdoor lighting, scoreboards, traffic lights, high voltage poles, transformers, disconnects, switching mechanisms, electrical contacts, spark plugs, battery terminals, fasteners, o-rings, rubber and plastic parts.



#### DI-ELECTRIC GREASE

**Product Code: L0021526**

- Supplier Code: 2085
- Non-curing silicone compound used for electrical sealing, lubricating, protecting and insulating. Waterproofs electrical connections and components. Improves electrical performance in adverse weather conditions.
- Applications: Electrical panels, outdoor lighting, scoreboards, traffic lights, high voltage poles, transformers, disconnects, switching mechanisms, electrical contacts, spark plugs, battery terminals, fasteners, o-rings, rubber and plastic parts.



#### MARINE BOAT TRAILER AND 4X4 WHEEL BEARING GREASE

**Product Code: —**

- Supplier Code: SL3120
- Blue tacky, aluminium complex grease using a highly refined base oil. Formulated with a polymer to provide adhesive, non-blend and water wash-out characteristics. Will resist water under the most severe water conditions.
- Applications: Anti-friction bearings, blocks, boat trailer bearings, deck equipment, marine equipment, shaft log seals, sleeve bearings, slides, steering cables, steering dockside machinery, steering quadrants, turn-buckles, wheel bearings, winches.



#### 6-56 MARINE LUBRICANT AND WATER DISPLACER

**Product Code: L0000861**

- Supplier Code: 6007
- Displaces moisture in salt water. Multi-purpose, plastic-safe, moisture displacer, lubricant, penetrant and corrosion inhibitor that helps prevent electrical malfunctions caused by water penetration, humidity, condensation or corrosion. Helps to restore water damaged electrical equipment.
- Applications: Fishing reels, winches, pulleys, metal components, starts wet engines, frees rusted parts, as a corrosion inhibitor.



**Note** Items above with (-) in the Product Code column are available on special request.

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### LUBRICANTS



#### GEL-TAC

**Product Code: L0004133**

- Supplier Code: 3135
- Ideal to use on highly loaded reciprocal moving parts. Operates in a temperature range of -35°C to +300°C. Compatible with O-ring chains. Water resistant, multi-purpose lubricant that is a specially formulated blend of high quality synthetic oils, with anti-wear additives, friction modifiers and tackiness agents.
- Applications: Conveyors, hinges, forklifts, farm equipment, window mechanisms, coupling mechanisms, car-wash equipment and chains.



#### TAC 2® ADHESIVE CHAIN LUBRICANT

**Product Code: L0000855**

- Supplier Code: 3076
- An exceptional lubricant, with a tough adhesive quality which will bond to chain/wear surfaces to keep them in peak operating condition by reducing friction and wear that causes metal fatigue.
- Applications: Drive chains, open gears, hoists, winches, pulleys, fork lifts, rollers, garage doors, bushings, seals, o-rings, and wire ropes.



#### 5-56 MULTIPURPOSE LUBRICANT AND PENETRANT

**Product Code: L0001990**

- Supplier Code: 5005A
- Multi-purpose product with superior penetrating power that breaks through rust and corrosion while it cleans away scale and dirt. Eliminates the need for many disassembly operations. Lubricates, penetrates, eliminates moisture and protects against corrosion.
- Applications: Metal components, engines.



#### POWERLUBE MULTIPURPOSE LUBRICANT AND PENETRANT

**Product Code: L0000853**

- Supplier Code: 5005
- Fast acting multi-purpose lubricant. This all in one product quickly penetrates, lubricates, stops squeaks, fights corrosion and loosens rusted parts.
- Applications: Hinges, speedometer cables, seat slides, door locks, distributors, power antennas, wheels, lug nuts, battery terminals, air tools, switches, computers, clocks, firearms, fishing reels, bicycles, etc.



### PROTECTION AND CORROSION INHIBITORS



#### ZINC-IT INSTANT COLD GALVANISE

**Product Code: L0022251**

- Supplier Code: 18412
- Excellent touch-up for damaged galvanised coatings and actively fights rust and corrosion. Protects base metal even when scratched, abraded or dented and has excellent weldability. Dries to touch in 20 minutes.
- Applications: Threads, exposed edges, fasteners, conduit, strapping, welds, fencing, railings, grates, electrical poles, breaker panel housings, rain spouts, signs, doors, trailers, waste containers, catwalks and guard rails.



#### RUST CONVERTER

**Product Code: L0002739**

- Supplier Code: 18418
- Neutralises rust and converts it to a tough, black primer in one easy step. No more scraping or sandblasting. Protects surfaces for years. Hundreds of applications for auto, marine, RV, heavy trucking, construction, utility service, hardware and home.
- Applications: Cars, truck frames/beds, boats and trailers, railings, bridges, storage tanks, transmission towers, fences, iron or steel furniture, equipment, tools, etc.



# POWER PRODUCTS

## MAINTENANCE CHEMICALS



### PROTECTION AND CORROSION INHIBITORS



#### STEEL RE-NU

**Product Code:** —

- Supplier Code: 18211
- A coating containing 316L stainless steel pigment to provide corrosion resistance and protection against sunlight, oil and water. Authorised for use in food processing plants.
- Applications: On threads, exposed edges, fasteners, conduit, strapping, welds, fencing, railings, grates, electrical poles, breaker panel housings, rain spouts, signs, doors, trailers, waste containers, catwalks and guard rails.



#### CORROSION INHIBITOR

**Product Code:** L0000851

- Supplier Code: 3282
- Medium-term corrosion inhibitor for machined surfaces and assemblies subjected to long periods of storage or adverse shipping conditions. It is an easily removable film that will provide protection of all equipment subject to heat humidity, chemicals and severely corrosive atmospheres. Medium-term protection for all metals during shipment or extended storage.
- Applications: Precision machine surfaces, shafts, motors, start-up lubricant for stored machinery, assemblies in storage or in shipment, equipment exposed to elements, outdoor storage of raw materials and finished stock.



#### URETHANE RED SEAL COAT

**Product Code:** L0000824

- Supplier Code: 18410
- Polyurethane coating that insulates electrical equipment and seals out water and moisture. The red formula allows for visualization of equipment.
- Applications: On motor windings, terminals, bus bars, commutator ends, stator coils and PC boards.



#### URETHANE CLEAR SEAL COAT

**Product Code:** L0000825

- Supplier Code: 18411
- Provides a coating that insulates electrical equipment and seals out water and moisture. This clear formulation is an excellent insulator of PC boards since it allows visualisation of circuit paths. Red provides for a striking contrast. Dries quickly to a hard, durable, flexible and nonconductive film.
- Applications: Motor windings, terminals, bus bars, commutator ends, stator coils and PC boards.



**Note** Items above with (-) in the Product Code column are available on special request.

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### SPECIALITY



#### HYDROFORCE GLASS CLEANER

**Product Code: L0002738**

- Supplier Code: 14412
- Cuts through dirt, dust, fingerprints and haze deposits. Provides streak-free glass cleaning even on delicate glass surfaces. Biodegradable, ready to use.
- Applications: Glass, mirrors.



#### HYDROFORCE STAINLESS STEEL CLEANER

**Product Code: L0000822**

- Supplier Code: 14424
- Exclusive ultra-shine formula eliminates dirt, dust, fingerprints and watermarks. Leaves behind a protective, non-greasy barrier that resists the return of stains.
- Applications: Aluminium, chrome, other shiny metal surfaces located in heavily industrial environments, stainless steel



#### TRUE TAP AQUA CUTTING FLUID

**Product Code: —**

- Supplier Code: 3440
- Water-soluble cutting fluid with excellent cooling and lubrication properties. Suitable replacement for solvent or oil-based cutting fluids. Works well in machine tools containing water-soluble coolants.
- Applications: Tapping, threading, drilling, sawing, shearing, turning, reaming metal parts, pipes, conduit, screws, bolt holes, housings, aluminium sheets, strapping, gears and chains.



#### WELDER'S ANTI-SPATTER

**Product Code: L0002745**

- Supplier Code: 3083
- Prevents spatter from adhering to surrounding metal surfaces during welding. Eliminates the need to chisel, grind or wire brush after welding. Water based formula allows easy clean-up without the use of solvent cleaners. Does not contain silicone. Contains no ODCs. Rust inhibiting additive prevents flash rust on in-process and surrounding metal surfaces. Non-hazardous composition. Low odour.
- Applications: Resistance welding tips, mig and tig tips, weldments, electrode holders, contact tips, tools, metal molds and bench top splash guards.



**Note** Items above with (-) in the Product Code column are available on special request.

# POWER PRODUCTS

## MAINTENANCE CHEMICALS



### SPECIALITY



#### SMOKE TEST

**Product Code: L0000836**

- Supplier Code: 2105
- A convenient, easy and safe product to test the functional ability of a smoke detector. It also checks for obstructions or debris, which clog detector vents and prevents smoke from properly entering the sensing chamber. Simulates smoke to provide a true, functional test for smoke detectors.
- Applications: Commercial or residential smoke detectors.



#### LEAK DETECTOR

**Product Code: B0000083**

- Supplier Code: 14503
- Formulated for the quick detection of gas and air leaks. The water based formula contains no oils, silicones or harmful solvents. Quickly and reliably locates gas leaks and pressure losses in pipes and pressurised systems by forming highly visible bubbles when applied over any leak.
- Applications: Refrigeration units, air conditioning systems, exhausts, pipes, valves, screw connectors, welding seams and compressors.



#### TACKLE GUARD

**Product Code: L0000862**

- Supplier Code: 6028
- Cleans, lubricates, drives out moisture, prevents corrosion and protects tackle even through periods of storage.
- Applications: Ideal for protecting and lubricating all types of fresh and salt water reels without damaging mono-filament lines, fly fishing lines, EVA grips, seals and varnish.



**Note** Items above with (-) in the Product Code column are available on special request.

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### SPECIALITY



### INDUSTRIAL ADHESIVE REMOVER

**Product Code: —**

- Supplier Code: 3250
- A low VOC, industrial strength adhesive remover specially formulated for quick removal of adhesives. Specially formulated to remove adhesive labels from many substrates.
- Applications: Removing labelling from machinery, removing tar from equipment, softening liquid adhesive and adhesive tape residue.



### HAND CLEANER TOWELS

**Product Code: —**

- Supplier Code: 4100
- Hand Cleaner Towels are powerful, yet safe cleaning agents work together with an absorbent, no scratching abrasive hand cleaning towel. The result is hands that are clean, with a pleasant fragrance.
- Applications: Lubricants, tar, sealants, heavy grease, oils, wax, paint, adhesives, ink, caulk, epoxy, and much more.



### BATTERY TERMINAL PROTECTOR

**Product Code: L0000857**

- Supplier Code: 5046
- Specially designed to protect battery terminals from corrosion, a leading cause of hard starting and battery failure. Provides a lead-free soft protective coating.
- Applications: Battery posts, terminals, hold-downs and casings used in vehicles, boats, handling equipment and uninterrupted power supplies (UPS), and used for computer, security and emergency back-up systems.



### WHITE LITHIUM GREASE

**Product Code: L0000856**

- Supplier Code: 5037
- A high purity, high quality grade white lithium-based grease lubricant. Provides long lasting lubrication with excellent water and heat resistance, corrosion protection and film strength. Reduces friction and wear in metal-to-metal and metal-to-plastic application and being white in colour allows easy visual film check.
- Applications: Recommended to lubricate hinges, latches, overhead door tacks, open gears and chains, cables, slide conveyors, guide rails, cams and pistons. Excellent as a break-in lubrication for bearings. Also used for general purpose lubrication and corrosion protection for machinery, tools and equipment.



### JUMP START

**Product Code: L0000860**

- Supplier Code: 5671
- Assures fast, economical starts in cold or humid conditions. Also contains an upper cylinder lubricant to minimise wear during cold starts.
- Applications: For use in both gasoline and diesel engines. Spray in air intake or air cleaner while engine is off.



**Note** Items above with (-) in the Product Code column are available on special request.

# POWER PRODUCTS

## MAINTENANCE CHEMICALS



### AUTOMOTIVE



#### MASS AIR FLOW SENSOR CLEANER

**Product Code: L0000859**

- Supplier Code: 5110
- Safely cleans and protects MAF sensors and is proven to increase horsepower and improve air/fuel ratio. Reduces rough idle, hesitation and pinging and improves fuel mileage. Plastic safe and leaves no residue.
- Applications: Mass air flow sensors and housing.



#### BATTERY CLEANER WITH ACID INDICATOR

**Product Code: L0000854**

- Supplier Code: 5023
- Penetrates and removes corrosion allowing for maximum current flow. Yellow foam turns pink to instantly detect acid leaks and neutralise acid. Effectively cleans terminals, connectors, cases and hold-downs.
- Applications: Battery terminals, battery casings, cable connectors and hold-downs.



### FOOD GRADE LUBRICANTS



#### FOOD GRADE SILICONE

**Product Code: L0000839**

- Supplier Code: 3040
- Features and Benefits:
  - Harmless to most rubbers and plastics.
  - Wide effective temperature range -40°C to +200°C.
  - Excellent release agent and lubricant for all surfaces.
- Applications: Food processing and handling equipment, chutes, guides, rails, conveyors, bottling machinery, slicers, ovens, freezers, knives, saws, coin mechanisms, linkages, locks, pulleys, timers, rubber seals, tools, vending machines and ceramic insulators.



#### FOOD GRADE CHAIN LUBE

**Product Code: L0000844**

- Supplier Code: 3055
- Features and Benefits:
  - Non-drying film effectively lubricates metal surfaces.
  - Formula contains anti-wear properties to extend chain life.
  - Foaming action penetrates chain bushings and pins, and provides maximum adhesion.
- Applications: Conveyor chains, packaging equipment, hoist chains, link and roller assemblies, forklift trucks and many other industrial applications.



#### FOOD GRADE DIELECTRIC GREASE

**Product Code: L0017669**

- Supplier Code: 3085
- Non-curing silicone compound used for electrical sealing, lubricating, protecting and insulating. Waterproofs electrical connections and components. Improves electrical performance in adverse weather conditions.
- Applications: Gaskets, transfer belts, conveyor belts, motors, plant machinery and handling equipment, rubber moldings, high temperature, low load, or high rpm slides, rollers, wheels, gears, chains and hoists.





### FOOD GRADE LUBRICANTS



#### FOOD GRADE PENETRATING OIL

**Product Code: L0002212**

- Supplier Code: 3086
- Features and Benefits:
  - General, non-silicone lubricant for use on all food processing equipment.
  - Eases disassembly of mechanical equipment, fittings and fixtures.
  - 360° valve.
  - Temperature range 0°C to +150°C.
- Applications: Food processing equipment directly exposed to food products including scales, fans, carts, galleys, bottlers, chutes, conveyors, racks, ovens, stoves, fillers, mixers, freezers, rails and cooking appliances.



#### FOOD GRADE WHITE GREASE

**Product Code: L0002746**

- Supplier Code: 3038
- Features and Benefits:
  - Excellent adhesion resists throw-off and shear breakdown.
  - Resistant to water, salt spray and detergent.
  - Wide operating temperature range -18°C to +232°C.
- Applications: Bakeries, bottlers, breweries, canneries, dairies.



#### FOOD GRADE BELT DRESSING

**Product Code: L0000845**

- Supplier Code: 3065
- Features and Benefits:
  - Tacky, non-drying, water resistant film minimises belt slippage.
  - Colourless – will not stain finished goods transported on conveyor systems.
- Applications: Industrial machinery, conveyor systems, portable motorized equipment and vehicle belts.



#### FOOD GRADE MULTIPURPOSE GREASE

**Product Code: -**

- Supplier Code: SL35605
- An aluminum complex premium grade USDA H1 greasing for use in food production and processing industries. This NLGI Grade 2 multi-purpose lubricant is white in colour and has a smooth buttery texture.
- Applications: Anywhere lubrication is needed where it may come in contact with food, bottling machinery, breweries, canneries, carton/packaging equipment, dairies, food processing and handling equipment, meat processing plants, seamers at high speeds and pressure.



#### FOOD GRADE MACHINE OIL

**Product Code: L0000847**

- Supplier Code: 3081
- Features and Benefits:
  - Contains no silicone.
  - Will not harm wood, metal, plastic or painted surfaces.
  - Working temperature range 0°C to 149°C
  - 360° valve.
- Applications: Food processing equipment directly exposed to food products including scales, fans, carts, galleys, bottlers, chutes, conveyors, racks, ovens, stoves, fillers, mixers, freezers, rails and cooking appliances.



#### FOOD GRADE MULTI-PURPOSE GREASE

**Product Code: L0002751**

- Supplier Code: SL35600
- Features and Benefits:
  - Wide temperature range -35°C to +150°C.
  - Timken OK load of 40lbs.
- Applications: Anywhere lubrication is needed where it may come in contact with food, bottling machinery, breweries, canneries, carton/packaging equipment, dairies, food processing and handling equipment, meat processing plants, seamers at high speeds and pressure.



**Note** Items above with (-) in the Product Code column are available on special request.

## INDUSTRIAL RELAYS



### RMS-T RELAYS 2 AND 3 CONTACTS WITH INDICATION FLAG

Features:

- Universal power relay for general applications

Product Code	Supplier Code	Nominal Voltage	Pin	Amp	Changeover
D0005514	RMS20L012DCOT	12VDC	8	10	2
D0005519	RMS30L012DCOT		11		3
D0005520	RMS30L024DCOT	24VDC	8		2
D0005513	RMS20L012ACOT	12VAC			
D0005515	RMS20L024ACOT	24VAC	11		3
D0005517	RMS20L120ACOT	120VAC			
D0005523	RMS30L230ACOT	230VAC	8		2
D0005518	RMS20L230ACOT		11		3
D0005521	RMS20L048ACOT	48VAC	11		3
D0005522	RMS20L120ACOT	120VAC			



### RQS-T RELAYS 1, 2 AND 4 CONTACTS WITH INDICATION FLAG

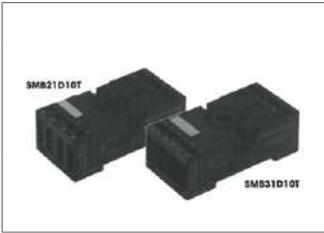
Features:

- Miniature power relay for general applications

Product Code	Supplier Code	Nominal Voltage	Pin	Amp	Changeover
-		6VDC	8	16	2
-		12VDC			
-		24VDC			
-		48VDC			
-		115VDC			
D0005524	RQS20LT	230VDC	14	16	4
-	6VAC				
-	12VAC				
-	24VAC				
-	48VAC				
-	120VAC				
D0005527	RQS40LT	230VAC			

**Note** Items above with (-) in the Product Code column are available on special request.

## INDUSTRIAL RELAYS



### SOCKETS/POWER RELAYS SM-T SOCKETS

Features:

- DIN rail (35mm) or panel mountable

Product Code	Supplier Code	Pin	Colour
D0005530	SMB21D10T0000	8	Black
D0005532	SMB30D11T0000	11	Black



### SOCKETS/POWER RELAYS SQ SOCKETS

Features:

- DIN rail (35mm) or panel mountable

Product Code	Supplier Code	Pin	Colour
D0005533	SQB20D10T0000	8	Grey
D0005535	SQB31D10T0000	14	
D0005536	SQB31D10T0000B		Black
D0005537	SQB41D01T0000		Grey

## LIFT AND CRANE CONTROL



### FOOT SWITCHES - IP SERIES - IP54 THERMOPLASTIC TYPE-SINGLE

Product Code	Supplier Code	Contacts	IP Rating
D0007655	IP7007	1 NO	54

## TEST TERMINAL BLOCKS

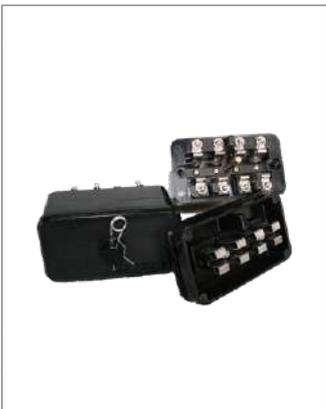


### TEST TERMINAL BLOCKS

**Features:**

- Offer easy access for on-site testing of Ammeters, KWH Meters, Demand Indicators, Trivector Meters, Relays and Instrument Transformers without disconnecting from load and avoid C.T open circuit problems
- Connections for testing can be easily made
- Test Terminal Blocks are an important element of the metering solution
- Designed for projection mounting with either front or back connection possibilities, designated with FC or BC
- For 3-phase, 3-wire or 3-phase 4-wire application for up to 50A continuous rating at 600V and generally conform to IEC60947-7-1
- The most popular Test Terminal Block has 13 terminals in total of which 9 are current terminals and 4 are voltage terminals
- The current terminals are separated into groups of 3 with inter-terminal shorting links for short-circuiting of the CT terminals and testing
- The base is made of excellent quality electrical grade black bakelite moulding powder
- The base moulding is provided with integrally moulded barriers between the terminals for complete protection against flash-overs
- In addition, a bakelite shield is provided in front to avoid flash-over or shorting at cable entries
- A moulded shroud is provided for safety against the voltage terminals
- For viewing the inside connections without removing the cover, thus saving time of the operator, a transparent, sturdy and flame retardant (UL94V0) poly-carbonate top cover is provided
- Optionally, the top cover is offered in bakelite
- The top cover is secured in place by knurled knobs and a sealing arrangement is provided to prevent unauthorised access
- The Test Terminal Block can be fitted to any panel by means of 4 holes provided on the base
- All terminals, shorting links, screws, nuts, etc. used in the electrical connections are of bright nickel-plated brass to prevent corrosion and to provide high connectivity
- The screws are provided with rounded edges to prevent any damage to cable strands. Each terminal has 6mm (dia) hole for cable entry and two M5 screws secure the cables
- For the back connected Test Terminal Blocks, colour coded sleeves of brown, black, grey and blue (neutral) are provided to indicate different phases

Product Code	Supplier Code	Approval Specifications
L000908	TTB 13WBCB	13 way test block back connected - bakelite
L000909	TTB 13WBPC	13 way test block back connected - polycarbonate
L000910	TTB 13WFCB	13 way test block front connected - bakelite
L000911	TTB 13WFPC	13 way test block front connected - polycarbonate



### TEST TERMINAL BLOCKS

**Application:**

- For mounting on switchboard panels for use in conjunction with test equipment to facilitate the testing of AC instruments, meters and relays

**Features:**

- Type TTB4-W test blocks are essentially 4 pole jacks, provided with moulded phenolic covers, that have internal plug contacts which make a through connection when the cover is in place
- The contacts in the blocks are of the line-pressure type and provide positive contact with minimum contact resistance
- For current circuits, auxiliary contacts are used which automatically short circuit the current transformer when the cover or plug is removed
- Routine testing can be accomplished simply by removing the cover and substituting the properly connected test plug. Normal connections are restored by replacing the cover
- Contact rating is 250 volts, 10 amperes continuously
- A hole in the cover allows for securing against unauthorised use

Product Code	Supplier Code	Approval Specifications
L0000912	TTB4WBPC	4 way test block back connected - moulded bakelite



### MINIATURE DISCONNECTORS "ISOLATORS"/E200/SHD200 SERIES

Function:

- Suitable for under load operations and equipped with lockable control lever in both positions
- Each switch-disconnector must be protected on the supply side by a co-ordinated device which safeguards it against short-circuits

Application:

- Commercial and industrial



#### E201/SHD201 SINGLE POLE ISOLATOR DIN RAIL MOUNT (230 VAC) (1NO)

Product Code	Supplier Code	Number of Poles (17.5mm)	Rated Current (A)	Rated kA 230V VAC (ICW)
E0002661	SHD201/63	1	63	10
E0001934	E201/80r		80	25
E0002663	E201/100r		100	25
E0002664	E201/125r		125	6



#### E202/SHD202 DOUBLE POLE ISOLATORS DIN RAIL MOUNT (415 VAC) (2NO)

Product Code	Supplier Code	Number of Poles (35mm)	Rated Current (A)	Rated kA 415VAC (ICW)
E0002665	SHD202/63	2	63	10
E0002666	E202/100r		100	25
E0002667	E202/125r		125	6



#### E203/SHD203 TRIPLE POLE ISOLATORS DIN RAIL MOUNT (415 VAC) (3NO)

Product Code	Supplier Code	Number of Poles (52.5mm)	Rated Current (A)	Rated kA 415VAC (ICW)
E0001936	SHD203/63	3	63	10
E0001937	E203/80r		80	25
E0001935	E203/100r		100	25
E0002671	E203/125r		125	6

# POWER PRODUCTS

## MINIATURE CIRCUIT BREAKERS

**ABB**



### E204/SHD204 FOUR POLE ISOLATORS DIN RAIL MOUNT (415VAC) (4NO)

Product Code	Supplier Code	Number of Poles (70mm)	Rated Current (A)	Rated kA 415VAC (ICW)
E0002672	SHD204/63	4	63	10
E0002673	E204/100r		100	25
E0002674	E204/125r		125	6

### MINIATURE CIRCUIT BREAKERS CURVE C 10kA - S200 SERIES

Miniature Circuit Breaker S200 (C - Curve /Curve 2) up to 10kA

Function:

- Protection and control of circuits against overloads and short-circuits;
- Protection for resistive and inductive loads with low inrush current

Application:

- Domestic, commercial and industrial



### S201 SINGLE POLE MCB 10kA DIN RAIL MOUNT (230VAC - 60VDC)

Product Code	Supplier Code	Number of Poles (17.5mm)	Rated Current (A)	Rated kA 230VAC (Icu)
E0001944	S201-C2	1	2	10
E0001945	S201-C6		6	
E0001946	S201-C10		10	
E0001948	S201-C16		16	
E0001949	S201-C20		20	
E0001950	S201-C25		25	
E0001951	S201-C32		32	
E0001952	S201-C40		40	
E0002688	S201-C50		50	
E0002689	S201-C63		63	
E0001955	S201-C80		80	
E0001947	S201-C100		100	



### S202 DOUBLE POLE MCB 10kA DIN RAIL MOUNT (415VAC - 125VDC)

Product Code	Supplier Code	Number of Poles (35mm)	Rated Current (A)	Rated kA 230VAC (Icu)
E0001956	S202-C6	2	6	10
E0002700	S202-C10		10	
E0001957	S202-C16		16	
E0001958	S202-C20		20	
E0001959	S202-C25		25	
E0001960	S202-C32		32	
E0002705	S202-C40		40	
E0002706	S202-C50		50	
E0002707	S202-C63		63	
-	S202-C80		80	
-	S202-C100		100	



### S203 TRIPLE POLE MCB 10kA DIN RAIL MOUNT (400VAC)

Product Code	Supplier Code	Number of Poles (52.5mm)	Rated Current (A)	Rated kA 230VAC (Icu)
E0012451	S203-C6	3	6	10
E0002708	S203-C10		10	
E0001961	S203-C16		16	
E0001962	S203-C20		20	
E0001963	S203-C25		25	
E0001964	S203-C32		32	
E0002713	S203-C40		40	
E0002714	S203-C50		50	
E0002715	S203-C63		63	
-	S203-C80		80	
E0012224	S203-C100		100	

**Note** Items above with (-) in the Product Code column are available on special request.

# POWER PRODUCTS

## MINIATURE CIRCUIT BREAKERS



### MINIATURE CIRCUIT BREAKERS CURVE D 10kA - S200 SERIES

Miniature Circuit Breaker S200 (D - Curve/Curve 1) up to 10kA

Function:

- Protection and control of circuits against overloads and short circuits
- Protection for circuits with high inrush current with circuit closing

Application:

- Domestic, commercial and industrial



#### S201 SINGLE POLE MCB 10kA DIN RAIL MOUNT (230VAC - 60VDC)

Product Code	Supplier Code	Number of Poles (17.5mm)	Rated Current (A)	Rated kA 230VAC (Icu)
E0010764	S201-D6	1	6	10
E0010761	S201-D10		10	
E0010738	S201-D16		16	
E0010759	S201-D20		20	
E0010760	S201-D25		25	
E0010758	S201-D32		32	
E0010739	S201-D40		40	
E0010763	S201-D50		50	
E0010762	S201-D63		63	



#### S202 DOUBLE POLE MCB 10kA DIN RAIL MOUNT (400VAC - 125VDC)

Product Code	Supplier Code	Number of Poles (35mm)	Rated Current (A)	Rated kA 230VAC (Icu)
E0010741	S202-D6	2	6	10
E0010742	S202-D10		10	
E0010745	S202-D16		16	
E0010740	S202-D20		20	
E0010746	S202-D25		25	
E0010747	S202-D32		32	
E0010748	S202-D40		40	
E0010744	S202-D50		50	
E0010743	S202-D63		63	



### S203 TRIPLE POLE MCB 10kA DIN RAIL MOUNT (400VAC)

Product Code	Supplier Code	Number of Poles (52.5mm)	Rated Current (A)	Rated kA 400VAC (Icu)
E0010749	S203-D6	3	6	10
E0010756	S203-D10		10	
E0010755	S203-D16		16	
E0010751	S203-D20		20	
E0010754	S203-D25		25	
E0010970	S203-D32		32	
E0010752	S203-D40		40	
E0010750	S203-D50		50	
E0010757	S203-D63		63	

### MINIATURE CIRCUIT BREAKERS S200 SERIES ACCESSORIES

MCB S200 (C-Curve /Curve 2) 10kA with disconnecting neutral NA (VC8036)

Function:

- Protection and control circuits against overloads and short-circuits; protection for resistive and inductive loads with low inrush current

Application:

- Domestic, commercial and industrial



### S201 NA SINGLE POLE AND NEUTRAL MCB 10kA DIN MOUNT (230VAC - 60VDC)

Product Code	Supplier Code	Number of Poles (35mm)	Rated Current (A)	Rated kA 230VAC (Icu)
E0002690	S201-C6NA	1 + Neutral	6	10
E0002691	S201-C10NA		10	
E0002692	S201-C16NA		16	
E0002693	S201-C20NA		20	
E0002694	S201-C25NA		25	
E0002695	S201-C32NA		32	
E0002696	S201-C40NA		40	
E0002697	S201-C50NA		50	

# POWER PRODUCTS

## MINIATURE CIRCUIT BREAKERS

**ABB**



### AUXILIARY CONTACT - SIDE MOUNTING

Function:

- Indication of the position of the device's contacts
- Suitable for MCB's S200, S200 M, S200 P

Product Code	Supplier Code	Mounting Position	Description
D0019855	S2C-S/H6R	Side	Auxiliary contact (1NO)



### BUSBARS FOR MCCB'S WITHOUT SUPPLEMENTARY DEVICES

Product Code	Supplier Code	Connector Capacity (mm)	Number of Poles	Description
E0002675	PS 1/60	10	1	1 phase insulated busbar 60 way
E0002676	PS 1/60/16	16		
E0002677	PS 3/60	10	3	3 phase insulated busbar 60 way
E0002678	PS 3/60/16	16		

## RESIDUAL CURRENT DEVICES

Residual Current Devices (ELCB) - RCCB's

Residual Current Devices "Earth Leakage" F 200 AC type without Overload Protection

Function:

- Protection against the effects of sinusoidal alternating earth fault currents
- Protection against indirect contacts and additional protection against direct (with  $I_n = 30\text{mA}$ ) contacts
- Command and isolation of resistive and inductive circuits

Application:

- Residential, commercial and industrial



### F202 SINGLE POLE AND NEUTRAL RCCB DIN RAIL MOUNT 30mA 10kA

Product Code	Supplier Code	Number of Poles	Rated Current (A)	Sensitivity (mA)	Withstand kA at 230VAC (Inc)
E0001938	F202 AC - 63/0.03	2	63	30	10
E0001939	F202 AC - 100/0.03		100		

## MINIATURE CIRCUIT BREAKERS



### F204 TRIPLE POLE AND NEUTRAL RCCB DIN RAIL MOUNT 30mA 10kA

Product Code	Supplier Code	Number of Poles	Rated Current (A)	Sensitivity (mA)	Withstand kA at 230VAC (Inc)
E0001940	F204 AC - 63/0.03	4	63	30	10
E0002728	F204 AC - 100/0.03		100		



### DDA202 AC DOUBLE POLE

Product Code	Supplier Code	Number of Poles	Rated Current (A)	Sensitivity (mA)
E0010259	DDA202AC - 63/0.03	2	63	30



### DDA204 FOUR POLE

Product Code	Supplier Code	Number of Poles	Rated Current (A)	Sensitivity (mA)
E0011772	DDA204AC - 63/0.03	4	63	30

## ESB INSTALLATION CONTACTORS (ALSO AVAILABLE IN 12, 24, 48 AND 110VAC)

Application:

- Buildings, both residential and commercial



### MINIATURE DIN RAIL COMPONENTS (MDRCS)

Product Code	Supplier Code	Description
E0002754	ESB20-20/230	230 VAC contactor 20A (2NO)
E0002755	ESB40-40/230	230 VAC contactor 40A (4NO)
E0002756	ESB63-40/230	230 VAC contactor 63A (4NO)



### DIGITAL TIME SWITCH (230VAC, 16A RESISTIVE LOAD)

Product Code	Supplier Code	Description
D0005651	D1	Weekly digital time switch 1 x CO, 6 year power reserve

# POWER PRODUCTS

## MINIATURE CIRCUIT BREAKERS



### SURGE PROTECTION DEVICES

Function:

- Provide incoming protection for electrical and electronic equipment against over-voltage and impulse currents such as switching and lightning surges

Application:

- Residential, commercial and industrial



#### CLASS II - IMAX (8/20): 20kA SINGLE POLE

Product Code	Supplier Code	Number of Poles	Maximum Discharge Current (kA)	Maximum Operating Voltage (V)
E0001941	OVR T2 20 275	1	20	275



#### CLASS II - IMAX (8/20): 20kA THREE POLE AND NEUTRAL

Product Code	Supplier Code	Number of Poles	Maximum Discharge Current (kA)	Maximum Operating Voltage (V)
E0001942	OVR T2 3N 20 275SP	3 + Neutral	20	275



#### CLASS II - IMAX (8/20): 40kA SINGLE POLE

Product Code	Supplier Code	Number of Poles	Maximum Discharge Current (kA)	Maximum Operating Voltage (V)
E0002735	OVR T2 40 275P	1	40	275



#### CLASS II - IMAX (8/20): 40kA THREE POLE AND NEUTRAL

Product Code	Supplier Code	Number of Poles	Maximum Discharge Current (kA)	Maximum Operating Voltage (V)
E0002736	OVR T2 3N 40 275P	3 + Neutral	40	275



### MOULDED CASE CIRCUIT BREAKERS FOR POWER DISTRIBUTION

Function:

- Protection and control of the circuits against overloads and short-circuit for power distribution.
- All Tmax circuit breakers are suitable for current limiting in standard release.

Application:

- Power distribution for commercial and industrial installations.



#### XT1 160 TMD - FIXED (F) - 3 POLES - FRONT TERMINALS (F)

Thermomagnetic Trip Unit - TMD	B C N			
	In	Icu @ 415Vac = 18kA	Icu @ 415Vac = 25kA	Icu @ 415Vac = 36kA
TMD	12 - 16A	1SDA066799R1	1SDA080825R1	1SDA080827R1
TMD	14 - 20A	1SDA066800R1	1SDA080826R1	1SDA080828R1
TMD	18 - 25A	1SDA066801R1	1SDA067391R1	1SDA080829R1
TMD	22 - 32A	1SDA066802R1	1SDA067392R1	1SDA067411R1
TMD	28 - 40A	1SDA066803R1	1SDA067393R1	1SDA067412R1
TMD	35 - 50A	1SDA066804R1	1SDA067394R1	1SDA067413R1
TMD	44 - 63A	1SDA066805R1	1SDA067395R1	1SDA067414R1
TMD	56 - 80A	1SDA066806R1	1SDA067396R1	1SDA067415R1
TMD	70 - 100A	1SDA066807R1	1SDA067397R1	1SDA067416R1
TMD	88 - 125A	1SDA066808R1	1SDA067398R1	1SDA067417R1
TMD	112 - 160A	1SDA066809R1	1SDA067399R1	1SDA067418R1



#### XT1 160 TMD - FIXED (F) - 4 POLES - FRONT TERMINALS (F)

Thermomagnetic Trip Unit - TMD	B C N			
	In	Icu @ 415Vac = 18kA	Icu @ 415Vac = 25kA	Icu @ 415Vac = 36kA
TMD	12 - 16A	1SDA066810R1	1SDA080840R1	1SDA080842R1
TMD	14 - 20A	1SDA066811R1	1SDA080841R1	1SDA080843R1
TMD	18 - 25A	1SDA066812R1	1SDA067400R1	1SDA080844R1
TMD	22 - 32A	1SDA066813R1	1SDA067401R1	1SDA067419R1
TMD	28 - 40A	1SDA066814R1	1SDA067402R1	1SDA067420R1
TMD	35 - 50A	1SDA066815R1	1SDA067403R1	1SDA067421R1
TMD	44 - 63A	1SDA066816R1	1SDA067404R1	1SDA067422R1
TMD	56 - 80A	1SDA066817R1	1SDA067405R1	1SDA067423R1
TMD	70 - 100A	1SDA066818R1	1SDA067406R1	1SDA067424R1
In N=50%	88 - 125A	1SDA066819R1	1SDA067407R1	1SDA067425R1
In N=50%	112 - 160A	1SDA066820R1	1SDA067408R1	1SDA067426R1
In N=100%	88 - 125A	1SDA066888R1	1SDA067409R1	1SDA067427R1
In N=100%	112 - 160A	1SDA066821R1	1SDA067410R1	1SDA067428R1

# POWER PRODUCTS

## MOULDED CASE CIRCUIT BREAKERS

**ABB**



### XT1D - SWITCH-DISCONNECTOR

Type	Iu	3 Poles	4 Poles
XT1D 160*	160A	1SDA068208R1	1SDA068209R1



### XT3 250 TMD - FIXED (F) - 3 POLES - FRONT TERMINALS (F)

Thermomagnetic Trip Unit - TMD	In	N	S
		Icu @ 415Vac = 36kA	Icu @ 415Vac = 50kA
TMD	44 - 63A	1SDA068053R1	1SDA068215R1
TMD	56 - 80A	1SDA068054R1	1SDA068216R1
TMD	70 - 100A	1SDA068055R1	1SDA068217R1
TMD	88 - 125A	1SDA068056R1	1SDA068218R1
TMD	112 - 160A	1SDA068057R1	1SDA068219R1
TMD	140 - 200A	1SDA068058R1	1SDA068220R1
TMD	175 - 250A	1SDA068059R1	1SDA068221R1



### XT3 250 TMD - FIXED (F) - 4 POLES - FRONT TERMINALS (F)

Thermomagnetic Trip Unit - TMD	In	N	S
		Icu @ 415Vac = 36kA	Icu @ 415Vac = 50kA
TMD	44 - 63A	1SDA068060R1	1SDA068222R1
TMD	56 - 80A	1SDA068061R1	1SDA068223R1
TMD	70 - 100A	1SDA068062R1	1SDA068224R1
In N=50%	88 - 125A	1SDA068063R1	1SDA068225R1
In N=50%	112 - 160A	1SDA068064R1	1SDA068226R1
In N=50%	140 - 200A	1SDA068065R1	1SDA068227R1
In N=50%	175 - 250A	1SDA068066R1	1SDA068228R1
In N=100%	88 - 125A	1SDA068067R1	1SDA068229R1
In N=100%	112 - 160A	1SDA068068R1	1SDA068230R1
In N=100%	140 - 200A	1SDA068069R1	1SDA068231R1
In N=100%	175 - 250A	1SDA068070R1	1SDA068232R1



### XT3D - SWITCH-DISCONNECTOR

Type	Iu	3 Poles	4 Poles
XT3D 250*	250A	1SDA068210R1	1SDA068211R1

**Note** \*The above disconnector rating is based on AC22 conditions.

### ACCESSORIES FOR MOULDED CASE CIRCUIT BREAKERS TMAX XT1 AND XT3

#### FIXED PARTS, CONVERSION KIT AND ACCESSORIES FOR FIXED PARTS



Supplier Code	Type	Number of Poles	Item Description	For use with
1SDA068183R1	Kit P PF EF	3	Fixed plug-in base	XT1
1SDA066276R1	P MP KIT	3	Conversion kit for MCCB to plug-in	XT1
1SDA066260R1	EF - Front Extended terminals	3	Terminals for conversion kit	XT1
1SDA068192R1	Kit P PF EF	3	Fixed plug-in base	XT3
1SDA066280R1	P MP KIT	3	Conversion kit for MCCB to plug-in	XT3
1SDA066264R1	EF - Front Extended terminals	3	Terminals for conversion kit	XT3
1SDA068953R1	PS - Rear phase separators 90mm	3	Rear phase separators 90mm	XT3
1SDA066412R1	Socket-plug panel connector	3	15 pin for rear	XT1/XT3



#### SHUNT OPENING RELEASE - SOR

Supplier Code	Type	For use with
1SDA066321R1	SOR-C 12V DC	XT1/XT3
1SDA066322R1	SOR-C 24 - 30V AC/DC	XT1/XT3
1SDA066324R1	SOR-C 110 - 127V AC / 110 - 125V DC	XT1/XT3
1SDA066325R1	SOR-C 220 - 240V AC / 220 - 250V DC	XT1/XT3
1SDA066326R1	SOR-C 380 - 440V AC	XT1/XT3
1SDA066327R1	SOR-C 480 - 525V AC	XT1/XT3



#### UNDER VOLTAGE RELEASE - UVR

Supplier Code	Type	For Use With
1SDA066396R1	UVR-C 24 - 30V AC/DC	XT1/XT3
1SDA066398R1	UVR-C 110 - 127V AC / 110 - 125V DC	XT1/XT3
1SDA066399R1	UVR-C 220 - 240V AC / 220 - 250V DC	XT1/XT3
1SDA066400R1	UVR-C 380 - 440V AC	XT1/XT3
1SDA066401R1	UVR-C 480 - 525V AC	XT1/XT3



#### DELAY DEVICE FOR UNDER VOLTAGE RELEASE - UVD

Supplier Code	Type	For Use With
1SDA051357R1	UVD 24 - 30V AC/DC	XT1/XT3
1SDA051360R1	UVD 110 - 125V AC/DC	XT1/XT3
1SDA051361R1	UVD 220 - 250V AC/DC	XT1/XT3

# POWER PRODUCTS

## MOULDED CASE CIRCUIT BREAKERS

**ABB**



### AUXILIARY CONTACTS - AUX

Supplier Code	Type	For Use With
1SDA066426R1	AUX-C 3Q 250V AC/DC	XT1
1SDA066428R1	AUX-C 3Q 250V AC/DC	XT3
1SDA066431R1	AUX-C 1Q+1SY 250V AC/DC	XT1/XT3
1SDA066433R1	AUX-C 2Q+1SY 250V AC/DC	XT1/XT3



### MOTOR OPERATORS

Supplier Code	Type	For Use With
1SDA066457R1	MOD 24V DC	XT1/XT3
1SDA066459R1	MOD 110 - 125V AC/DC	XT1/XT3
1SDA066460R1	MOD 220 - 250V AC/DC	XT1/XT3
1SDA066461R1	MOD 380 - 440V AC	XT1/XT3



### ROTARY HANDLE OPERATING MECHANISM

Supplier Code	Type	For Use With
1SDA066475R1	RHD normal direct handle	XT1/XT3
1SDA066479R1	RHE normal transmitted handle	XT1/XT3



### T5 630 - FIXED (F) - 3 POLES - FRONT TERMINALS (F)

	In	N	S	H	V
Trip Unit – TMA		Icu @ 415Vac = 36kA	Icu @ 415Vac = 50 kA	Icu @ 415Vac = 70 kA	Icu @ 415Vac = 200 kA
TMA	350 - 500A	1SDA054456R1	1SDA054461R1	1SDA054465R1	1SDA054473R1



### T5 630 - FIXED (F) - 3 POLES - FRONT TERMINALS (F)

	In	N	S	H	V
Electronic Trip Unit		Icu @ 415Vac = 36kA	Icu @ 415Vac = 50 kA	Icu @ 415Vac = 70 kA	Icu @ 415Vac = 200 kA
PR221DS-LS/I	252 - 630A	1SDA054396R1	1SDA054404R1	1SDA054412R1	1SDA054428R1
PR222DS/P-LSI	252 - 630A	1SDA054398R1	1SDA054406R1	1SDA054414R1	1SDA054430R1

## MOULDED CASE CIRCUIT BREAKERS



### T5 630 - FIXED (F) - 4 POLES - FRONT TERMINALS (F)

Trip Unit – TMA	In	N	S	H	V
		Icu @ 415Vac = 36kA	Icu @ 415Vac = 50 kA	Icu @ 415Vac = 70 kA	Icu @ 415Vac = 200 kA
N=50%	350 - 500A	1SDA054459R1	1SDA054463R1	1SDA054467R1	1SDA054475R1
N=100%	350 - 500A	1SDA054487R1	1SDA054489R1	1SDA054491R1	1SDA054495R1



### T5 630 - FIXED (F) - 4 POLES - FRONT TERMINALS (F)

Electronic Trip Unit	In	N	S	H	V
		Icu @ 415Vac = 36kA	Icu @ 415Vac = 50 kA	Icu @ 415Vac = 70 kA	Icu @ 415Vac = 200 kA
PR221DS-LS/I	252 - 630A	1SDA054400R1	1SDA054408R1	1SDA054416R1	1SDA054432R1
PR222DS/P-LSI	252 - 630A	1SDA054402R1	1SDA054410R1	1SDA054418R1	1SDA054434R1



### T5D 400 & 630 - SWITCH-DISCONNECTOR - FIXED (F)

Type	Icw	3 Poles	4 Poles
T5D 400	400A	1SDA054599R1	1SDA054600R1
T5D 630	630A	1SDA054601R1	1SDA054602R1



### T6 630 - FIXED (F) - 3 POLES - FRONT TERMINALS (F)

Thermomagnetic Trip Unit – TMA	In	N	S	H	L
		Icu @ 415Vac = 36kA	Icu @ 415Vac = 50 kA	Icu @ 415Vac = 70 kA	Icu @ 415Vac = 100 kA
TMA	440 - 630A	1SDA060202R1	1SDA060204R1	1SDA060206R1	1SDA060208R1



### T6 630 - FIXED (F) - 3 POLES - FRONT TERMINALS (F)

Electronic Trip Unit	In	N	S	H	L
		36kA	50 kA	70 kA	100 kA
PR221DS-LS/I	252 - 630A	1SDA060226R1	1SDA060236R1	1SDA060246R1	1SDA060256R1
PR222DS/P-LSI	252 - 630A	1SDA060228R1	1SDA060238R1	1SDA060248R1	1SDA060258R1

# POWER PRODUCTS

## MOULDED CASE CIRCUIT BREAKERS

**ABB**



### T6 630 - FIXED (F) - 4 POLES - FRONT TERMINALS (F)

Thermomagnetic Trip Unit – TMA	In	N	S	H	L
		Icu @ 415Vac = 36kA	Icu @ 415Vac = 50 kA	Icu @ 415Vac = 70 kA	Icu @ 415Vac = 100 kA
N=50%	441 - 630A	1SDA060203R1	1SDA060205R1	1SDA060207R1	1SDA060209R1
N=100%	441 - 630A	1SDA060210R1	1SDA060211R1	1SDA060212R1	1SDA060213R1



### T6 630 - FIXED (F) - 4 POLES - FRONT TERMINALS (F)

Electronic Trip Unit	In	N	S	H	L
		Icu @ 415Vac = 36kA	Icu @ 415Vac = 50 kA	Icu @ 415Vac = 70 kA	Icu @ 415Vac = 100 kA
PR221DS-LS/I	252 - 630A	1SDA060231R1	1SDA060241R1	1SDA060251R1	1SDA060262R1
PR222DS/P-LSI	252 - 630A	1SDA060233R1	1SDA060243R1	1SDA060253R1	1SDA060264R1



### FIXED PARTS, CONVERSION KIT AND ACCESSORIES FOR FIXED PARTS

Function:

- Protection and control of the circuits against overloads and short-circuit for power distribution.
- All Tmax circuit breakers are suitable for current limiting in standard release.

Application:

- Power distribution for commercial and industrial installations.

Supplier Code	Description	Number of Poles	Item Description	For Use With
1SDA054737R1	T4 FPEF	3	Fixed plug -in base	T4
1SDA054839R1	Kit P MP T4	3	Conversion kit for the MCCB to plug-in	T4
1SDA054749R1	T5 400P FPEF	3	Fixed plug -in base	T5 400
1SDA054843R1	Kit P MP T5 400	3	Conversion kit for the MCCB to plug-in	T5 400
1SDA054762R1	T5 630 P FPEF	3	Fixed plug -in base	T5 630
1SDA054847R1	Kit P MP T5 630	3	Conversion kit for the MCCB to plug-in	T5 630
1SDA054944R1	FLD T4-T5 F/P		Front lever operating mechanism	T4,T5



### SHUNT OPENING RELEASE

Supplier Code	Description	For Use With
1SDA054870R1	SOR-C 24 - 30V AC/DC	T4/T5/T6
1SDA054872R1	SOR-C 110 - 127V AC /110 - 125V DC	T4/T5/T6
1SDA054873R1	SOR-C 220 - 240V AC /220 - 250V DC	T4/T5/T6
1SDA054874R1	SOR-C 380 - 440V AC	T4/T5/T6
1SDA054875R1	SOR-C 480 - 525V AC	T4/T5/T6
1SDA062065R1	SOR-C 24 - 30V AC/DC	T7/T7M
1SDA062069R1	SOR-C 110 - 120V AC/DC	T7/T7M
1SDA063548R1	SOR-C 220 - 240V AC/DC	T7/T7M
1SDA062071R1	SOR-C 380 - 440V AC	T7/T7M



### SHUNT CLOSING RELEASE

Supplier Code	Description	For Use With
1SDA062076R1	SCR-C 24 - 30V AD/DC	T7M
1SDA062080R1	SCR-C 110 - 120V AC/DC	T7M
1SDA062081R1	SCR-C 220 - 240V AC/DC	T7M
1SDA062082R1	SCR-C 380 - 440V AC*	T7M



### UNDER VOLTAGE RELEASE

Supplier Code	Description	For Use With
1SDA054887R1	UVR-C 24 - 30V AC/DC	T4/T5/T6
1SDA054890R1	UVR-C 110 - 127V AC /110 - 125V DC	T4/T5/T6
1SDA054891R1	UVR-C 220 - 240V AC/220 - 250V DC	T4/T5/T6
1SDA054892R1	UVR-C 380 - 440V AC	T4/T5/T6
1SDA054893R1	UVR-C 480 - 525V AC	T4/T5/T6
1SDA062087R1	UVR-C 24 - 30V AC/DC	T7/T7M
1SDA062091R1	UVR-C 110 - 120V AC/DC	T7/T7M
1SDA063552R1	UVR-C 220 - 240V AC/DC	T7/T7M
1SDA062093R1	UVR-C 380 - 440V AC	T7/T7M



### DELAY DEVICE UNDER VOLTAGE RELEASE

Supplier Code	Description	For Use With
1SDA051357R1	UVD 24 - 30V AC/DC	T4/T5/T6
1SDA051360R1	UVD 110 - 125V AC/DC	T4/T5/T6
1SDA051361R1	UVD 220 - 250V AC/DC	T4/T5/T6
1SDA038316R1	UVD 24 - 30V AC/DC	T7/T7M
1SDA038319R1	UVD 110 - 125V AC/DC	T7/T7M
1SDA038320R1	UVD 220 - 250V AC/DC	T7/T7M



### AUXILIARY CONTACTS - AUX

Supplier Code	Description	For Use With
1SDA054910R1	AUX-C 1Q+1SY 250V	T4/T5/T6
1SDA054911R1	AUX-C 3Q+1SY 250V	T4/T5/T6
1SDA054912R1	AUX-C 1Q+1SY 400V	T4/T5/T6
1SDA054913R1	AUX-C 2Q 400V	T4/T5/T6
1SDA062102R1	AUX 2Q 400V AC	T7/T7M
1SDA062101R1	AUX 2Q 24V AC	T7/T7M
1SDA063553R1	AUX-SA 1 S51 T7 - T7M 250V	T7M

## 3 POLE BLOCK CONTACTORS



### 3 POLE CONTACTORS, FOR MOTOR CONTROL AND POWER SWITCHING



AF09



AF12



AF38



AF40



AF52

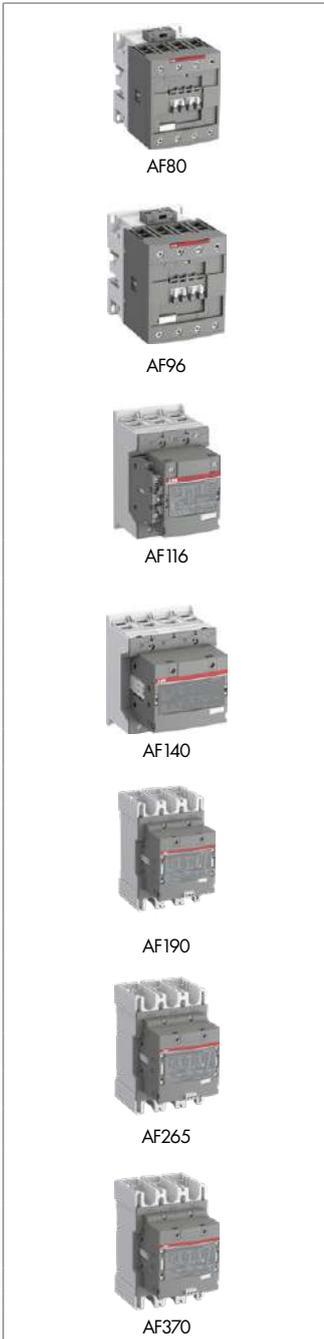


AF65

AC / DC Control Supply	Type	AF09	AF12	AF16	AF26	AF30	AF38	AF40	AF52	AF65	
IEC AC-3 Rated Operational Power 0 ≤ 60°C for AF09- AF370 0 ≤ 55°C for AF400- AF2650	220 - 230 - 240V	kW	2.2	3	4	6.5	9	11	11	15	18.5
	380 - 400V	kW	4	5.5	7.5	11	15	18.5	18.5	22	30
	415V	kW	4	5.5	9	11	15	18.5	22	30	37
	440V	kW	4	5.5	9	15	18.5	22	22	30	37
	500V	kW	5.5	7.5	9	15	18.5	22	22	30	37
	690V	kW	5.5	7.5	9	15	18.5	22	22	30	37
1000V	kW	-	-	-	-	-	-	-	-	-	
Rated Operational Current	380 - 400V	A	9	12	18	26	32	38	40	53	65
AC-1 Rated Operational current	u ≤ 40°C, 690V	A	25	28	30	45	50	50	70	100	105
UL / CSA 1-Phase Motor Rating	120V	hp	0.75	1	1.5	2	2	2	3	3	5
	240V	hp	1.5	2	3	3	5	5	7.5	10	15
3-Phase Motor Rating	200 - 208V	hp	2	3	5	7.5	10	10	10	15	20
	220 - 240V	hp	2	3	5	7.5	10	10	15	20	25
	440 - 480 V	hp	5	7.5	10	15	20	25	30	40	50
General Use Rating	550 - 600V	hp	7.5	10	15	20	25	30	40	50	60
General Use Rating	600V	A	25	28	30	45	50	50	60	80	90
NEMA Size			00	0	-	1	-	-	2	-	-
"1000 V IEC ratings available for AF80, AF96 and AF146-AF2650 contactors. ≤ 55°C AF400-AF2650 contactors."											
Main Accessories											
Auxiliary Contact Blocks	Front Mounting										
	Side Mounting	CAL4-11 (1 x N.O. + 1 x N.C.)									
Timers	Electronic	TEF4-ON									
		TEF4-OFF									
Interlocking Units (3)	Mechanical	VM4									
	Mechanical / Electrical	VEM4					VM96-4				
Connection Sets	For Reversing Contactors	BER16-4			BER 38-4			BER65-4			
Surge Suppressors	Varistor (AC/DC)										
	RC Type (AC)										
	Transil Diode (DC)										
(3) See available reversing contactors VB6, VB7 and VAS09-VAS16.											



### 3 POLE CONTACTORS, FOR MOTOR CONTROL AND POWER SWITCHING



AC/DC Control Supply		Type	AF80	AF96	AF116	AF140	AF146	AF190	AF205	AF265	AF305	AF370
IEC AC-3 Rated Operational Power 0 ≤ 60°C for AF09- AF370 0 ≤ 55°C for AF400- AF2650	220 - 230 - 240V	kW	22	25	30	37	45	55	55	75	90	110
	380 - 400V	kW	37	45	55	75	75	90	110	132	160	200
	415V	kW	45	55	55	75	75	90	110	132	160	200
	440V	kW	45	55	75	90	90	110	132	160	160	200
	500V	kW	45	55	75	90	90	110	132	160	200	250
	690V	kW	45	55	55	75	90	132	160	200	250	315
1000V	kW	35	40	-	-	75	110	132	132	132	132	132
Rated Operational Current	380 - 400V	A	80	96	116	140	146	190	205	265	305	370
AC-1 Rated Operational Current	u ≤ 40°C, 690V	A	125	130	160	200	225	275	350	400	500	600
UL/CSA 1-Phase Motor Rating	120V	hp	7.5	7.5	-	-	-	-	-	-	-	-
	240V	hp	15	20	-	-	-	-	-	-	-	-
3-Phase Motor Rating	200 - 208V	hp	25	30	30	40	40	50	60	75	100	125
	220 - 240V	hp	30	30	40	50	50	60	75	100	125	150
	440 - 480V	hp	69	60	75	100	100	125	150	200	250	300
	550 - 600V	hp	75	75	100	125	125	150	200	250	300	350
General Use Rating	600V	A	105	115	160	200	200	250	300	350	400	520
NEMA Size			3	-	-	4	-	-	-	5	-	-
"1000 V IEC ratings available for AF80, AF96 and AF146-AF2650 contactors. ≤ 55°C AF400-AF2650 contactors."												
Main Accessories												
Auxiliary Contact Blocks	Front Mounting	CA4-10(1 x N.O.) CA4-01(1 x N.C.)										
	Side Mounting	CAL19-11 (1 x N.O. + 1 x N.C.)										
Timers	Electronic											TEF4-ON
												TEF4-OFF
Interlocking Units (3)	Mechanical	VM96-4					VM19 (for same size contactors)					
	Mechanical/ Electrical											
Connection Sets	For Reversing Contactors	BER96-4			BER140-4			BER205-4			BER370-4	
Surge Suppressors	Built-in surge protection											
(3) See available reversing contactors VB6, VB7 and VAS09-VAS16.												

# POWER PRODUCTS

## 3 POLE BLOCK CONTACTORS



### 3 POLE CONTACTORS, FOR MOTOR CONTROL AND POWER SWITCHING



AC / DC Control Supply		Type	AF400	AF460	AF580	AF750	AF1250	AF1350	AF1650	AF2050	AF2650	
IEC AC-3 Rated Operational Power 0 ≤ 60°C for AF09-AF370 0 ≤ 55°C for AF400-AF2650	220 - 230 - 240V	kW	110	132	160	220	-	257	315	-	-	
	380 - 400V	kW	200	250	315	400	-	475	560	-	-	
	415V	kW	220	250	355	425	-	500	630	-	-	
	440V	kW	220	250	355	450	-	560	710	-	-	
	500V	kW	250	315	400	520	-	560	710	-	-	
	690V	kW	315	355	500	600	-	800	1000	-	-	
Rated Operational Current	380 - 400V	A	400	460	580	750	-	860	1060	-	-	
AC-1 Rated Operational Current	u ≤ 40°C, 690V	A	600	700	800	1050	1260	1350	1650	2050	2650	
UL / CSA 1-Phase Motor Rating	120V	hp	-	-	-	-	-	-	-	-	-	
	240V	hp	-	-	-	-	-	-	-	-	-	
3-Phase Motor Rating	200 - 208V	hp	125	150	200	250	-	-	-	-	-	
	220 - 240V	hp	150	200	250	300	-	400	450	-	-	
	440 - 480V	hp	350	400	500	600	-	800	900	-	-	
	550 - 600V	hp	400	500	600	700	-	1000	1150	-	-	
General Use Rating	600V	A	550	650	750	900	1210	1350	1650	2100	2700	
NEMA Size			-	6	-	7	-	-	8	-	-	
"1000 V IEC ratings available for AF80, AF96 and AF146-AF2650 contactors. ≤ 55 °C AF400-AF2650 contactors."												
Main Accessories												
Auxiliary Contact Blocks	Front Mounting											
	Side Mounting										CAL18-11 (1 x N.O. + 1 x N.C.)	
Timers	Electronic											
Interlocking Units (3)	Mechanical	VM750H VM750V									VM1650H	
	Mechanical / Electrical											
Connection Sets	For Reversing Contactors	BEM460-30					BEM750-30					
Surge Suppressors	Built-in surge protection											
(3) See available reversing contactors VB6, VB7 and VAS09-VAS16.												

## 3 POLE BLOCK CONTACTORS



### 3 POLE CONTACTORS, FOR MOTOR CONTROL AND POWER SWITCHING



Overload Relays											
Thermal Relays	Class 10 (Class 10A for TF140, TA200DU)	TF42 (0.10-38A)	TF65 (22-67A)	TF96 (40-96A)	TF140DU (66-142A) 0≤55°C	TA200DU (66-200A) 0≤55°C					
	Electronic Relays Class 10E, 20E, 30E	EF19 (0.10-18.9 A)	EF19 (0.10-18.9 A) EF45 (9-45 A)	EF65 (20-70A)	EF96 (36-100A)	EF146 (54-150A)	EF205 (63-210A)	EF370 (115-380A)	EF460 (150-500A)	EF750 (250-800A)	E1250DU (375-1250)



Manual Motor Starters			
Thermal/ Magnetic Protection Class 10	MS116 (0.10-32A) lcs up to 50 kA for Class 10A	MS165 (10-65A) lcs up to 100kA	MS5100 (40-100 A) lcs up to 50 kA
	MS132 (0.10-32A) lcs up to 100kA	MS495 (45-100A) lcs up to 50kA	MS497 (22-100A) lcs up to 100kA
Magnetic Only Types	MO132 (0.16-32 A) lcs up to 100kA	MO165 (16-65A) lcs up to 100kA	MS497 (22-100A) lcs up to 100kA
			MO495 (63-100A) lcs up to 50kA



Accessories			
For Contactor Mounting	BEA16-4	BEA38-4	BEA65-4 (5)
(4) MS165/MO165 are suitable for use with AF09-AF30 for North american applications.			
(5) BEA65-4 suitable for MS165 and MO165 only.			

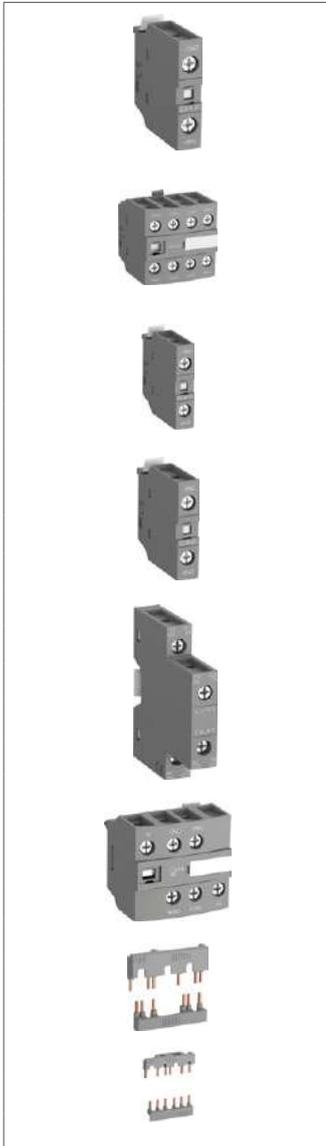


Short-circuit Protection Devices
MCCB and Switch-fuses

## 3 POLE BLOCK CONTACTORS



### MAIN ACCESSORIES FOR AF CONTACTOR RANGE



### ADDITIONAL AUXILIARY CONTACT BLOCKS

Product Code	Supplier Code	For Contactors	Type	Auxiliary Contacts
<b>Front-mounted Instantaneous Auxiliary Contact Blocks</b>				
D0003572	1SBN010110R1010	AF09 - AF96	CA4-10	1 0
D0003571	1SBN010110R1001	AF09 - AF96	CA4-01	0 1
-	1SBN010110T1001	AF09 - AF96	CA4-10-T	1 0
-	1SBN010140R112	AF09 - AF96	CA422M	2 2
D0015543	1SBN010140R1022	AF26 - AF38	CA4-22E	2 2
-	1SBN010140R1322	AF09 - AF16	CA4-22U	2 2
<b>Front-mounted Instantaneous Auxiliary Contact Blocks with N.O Leading Contact and N.C. Lagging Contact</b>				
-	1SBN010111R1010	AF09 - AF96	CC4-10	1 0
-	1SBN010111R1001		CC4-01	0 1
<b>Side-mounted Instantaneous Auxiliary Contact Blocks</b>				
D0018826	1SBN010120R1011	AF09 - AF96	CAL4-11	1 1
-	1SBN010120T1011		CAL4-11-T	
<b>Front-mounted Instantaneous Auxiliary Contact and A1 / A2 Coli Terminal Blocks</b>				
-	1SBN010151R1111	AF09 - AF96	CAT4-11M	1 1
-	1SBN010151R1011	AF26 - AF96	CAT4-11-E	
-	1SBN010151R1311	AF09 - AF96	CAT4-11U	
<b>Interlocks - Mechanical Interlock Unit</b>				
-	1SBN03015T1000	AF09 - AF38	VM4	Note Vm4 includes 2 fixing clips (BB4) to maintain together both contactors
<b>Mechanical and Electrical Interlock Set</b>				
D0003610	1SBN030111R1000	AF09 - AF38	VEM4	0 2
Note: VEM4 includes a Vm4 mechanical unit with 2 fixing clips (Bb4), z Ve4 electrical interlock block. Ve4 block must be used with A2-A2 connection to respect the electrical connection diagram.				
<b>Connection Sets For Reversing Contactors</b>				
D0003567	1SBN081311R1000	AF09 - AF16	BER16-4	-
D0003568	1SBN082311R1000	AF26 - AF38	BER38-4	-

**Note** Items above with (-) in the Product Code column are available on special request.



### CONTACTORS AND CONTACTORS RELAYS AF RANGE AC/DC OPERATED - WITH SCREW TERMINALS

Contactors AF09 to AF38

Application:

- AF09-AF38 contactors are used for controlling power circuits up to 690V AC and 220V DC
- They are mainly used for controlling 3-phase motors, non-inductive or slightly inductive loads

Description:

- AF09-AF38 contactors use an electronic coil interface accepting a wide control voltage  $U_c$  min- $U_c$  max
- Only four coils cover control voltage between 24-500V 50/60 Hz or 20-500V DC
- AF Contactors can manage large control voltage variations. One coil (e.g. 100-250V 50/60 Hz-DC) can be used for different control voltage used worldwide without any coil change
- AF-Z contactors equipped with a Z coil type type allow direct control by 24V DC 500mA PLC-Output and obtain a reduced holding coil consumption
- AF-Z contactors withstand short dips and voltage interruptions (SEMI F47-0706 compliance)
- AF contactors have built in surge protection and do not require any additional surge suppressors
- The built in N.C contact is a mirror contact in compliance with annex F of IEC 60947-4-1



AF09



AF12



AF38

Product Code	Supplier Code	EC Rated Power 400V AC-3 kW	Type	Control Voltage		Auxiliary Contacts Fitted	
				$U_c$ Min V 50/60 Hz	$U_c$ Max V DC	NO	NC
D0003566	1SBL137001R1110	4	AF09-30-10-11	24 - 60	20 - 60	1	0
D0002758	1SBL137001R1210		AF09-30-10-12	48 - 130	48 - 130		
D0002759	1SBL137001R1310		AF09-30-10-13	100 - 250	100 - 250		
D0003550	1SBL157001R1110	5.5	AF12-30-10-11	24 - 60	20 - 60	1	0
D0003547	1SBL157001R1210		AF12-30-10-12	48 - 130	48 - 130		
D0003548	1SBL157001R1310		AF12-30-10-13	100 - 250	100 - 250		
D0003554	1SBL177001R1110	7.5	AF16-30-10-11	24 - 60	20 - 60	1	0
D0003551	1SBL177001R1210		AF16-30-10-12	48 - 130	48 - 130		
D0003552	1SBL177001R1310		AF16-30-10-13	100 - 250	100 - 250		
D0003558	1SBL237001R1100	11	AF26-30-00-11	24 - 60	20 - 60	0	0
D0003555	1SBL237001R1200		AF26-30-00-12	48 - 130	48 - 130		
D0005556	1SBL237001R1300		AF26-30-00-13	100 - 250	100 - 250		
D0003562	1SBL277001R1100	15	AF30-30-00-11	24 - 60	20 - 60	0	0
D0003559	1SBL277001R1200		AF30-30-00-12	48 - 130	48 - 130		
D0003560	1SBL277001R1300		AF30-30-00-13	100 - 250	100 - 250		
D0005542	1SBL297001R1100	18.5	AF38-30-00-11	24 - 60	20 - 60	0	0
D0004979	1SBL297001R1200		AF38-30-00-12	48 - 130	48 - 130		
D0004978	1SBL297001R1300		AF38-30-00-13	100 - 250	100 - 250		



### AF40 - AF96 3 POLE CONTACTORS



AF40



AF52



AF65



AF80



AF96

Product Code	Supplier Code	IEC		UL/CSA		Rated Control Circuit Voltage		Auxiliary Contacts Fitted		Type
		Rated Operational Power Current 400V u ≤ 40°C		3-phase Motor Rating	General Use Rating 600 V AC	Uc Min	Uc Max			
		AC-3	AC-1							
		(kW)	(A)	(hp)	(A)					
-	1SBL347001R1100	18.5	70	30	60	24 - 60	20 - 60	0	0	AF40-30-00-11
-	1SBL347001R1200					48 - 130	48 - 130	0	0	AF40-30-00-12
D0003537	1SBL347001R1300					100 - 250	100 - 250	0	0	AF40-30-00-13
-	1SBL347001R1400					250 - 500	250 - 500	0	0	AF40-30-00-14
D0020120	1SBL367001R1100	22	100	40	80	24 - 60	20 - 60	0	0	AF52-30-00-11
D0015761	1SBL367001R1200					48 - 130	48 - 130	0	0	AF52-30-00-12
D0004980	1SBL367001R1300					100 - 250	100 - 250	0	0	AF52-30-00-13
D0019390	1SBL367001R1400					250 - 500	250 - 500	0	0	AF52-30-00-14
D0018847	1SBL387001R1100	30	105	50	90	24 - 60	20 - 60	0	0	AF65-30-00-11
-	1SBL387001R1200					48 - 130	48 - 130	0	0	AF65-30-00-12
D0018845	1SBL387001R1300					100 - 250	100 - 250	0	0	AF65-30-00-13
D0018846	1SBL387001R1400					250 - 500	250 - 500	0	0	AF65-30-00-14
-	1SBL397001R1100	37	125	60	105	24 - 60	20 - 60	0	0	AF80-30-00-11
-	1SBL397001R1200					48 - 130	48 - 130	0	0	AF80-30-00-12
D0004981	1SBL397001R1300					100 - 250	100 - 250	0	0	AF80-30-00-13
-	1SBL397001R1400					250 - 500	250 - 500	0	0	AF80-30-00-14
-	1SBL407001R1100	45	130	60	115	24 - 60	20 - 60	0	0	AF96-30-00-11
-	1SBL407001R1200					48 - 130	48 - 130	0	0	AF96-30-00-12
D0004982	1SBL407001R1300					100 - 250	100 - 250	0	0	AF96-30-00-13
-	1SBL407001R1400					250 - 500	250 - 500	0	0	AF96-30-00-14

**Note** Items above with (-) in the Product Code column are available on special request.



### AF116 - AF146 3 POLE CONTACTORS - FOR CONNECTION WITH BUILT-IN CABLE CLAMPS



AF116



AF140

Supplier Code	IEC		UL/CSA		Rated Control Circuit Voltage		Auxiliary Contacts Fitted		Type
	Rated Operational Power Current 400 V $u \leq 40^\circ\text{C}$		3-phase Motor Rating	General Use Rating 600 V AC	Uc Min V50/60 Hz	Uc Max V DC			
	AC-3	AC-1							
	(kW)	(A)	(hp)	(A)					
1SFL427001R1100	55	160	75	160	24 - 60	20 - 60	0	0	AF116-70-00
1SFL427001R1200					48 - 130	48 - 130	0	0	AF116-70-00
1SFL427001R1300					100 - 250	100 - 250	0	0	AF116-70-00
1SFL427001R1400					250 - 500	250 - 500	0	0	AF116-70-00
1SFL447001R1100	75	200	100	200	24 - 60	20 - 60	0	0	AF140-30-00
1SFL447001R1200					48 - 130	48 - 130	0	0	AF140-30-00
1SFL447001R1300					100 - 250	100 - 250	0	0	AF140-30-00
1SFL447001R1400					250 - 500	250 - 500	0	0	AF140-30-00
1SFL467001R1100	75	225	100	200	24 - 60	20 - 60	0	0	AF146-30-00
1SFL467001R1200					48 - 130	48 - 130	0	0	AF146-30-00
1SFL467001R1300					100 - 250	100 - 250	0	0	AF146-30-00
1SFL467001R1400					250 - 500	250 - 500	0	0	AF146-30-00



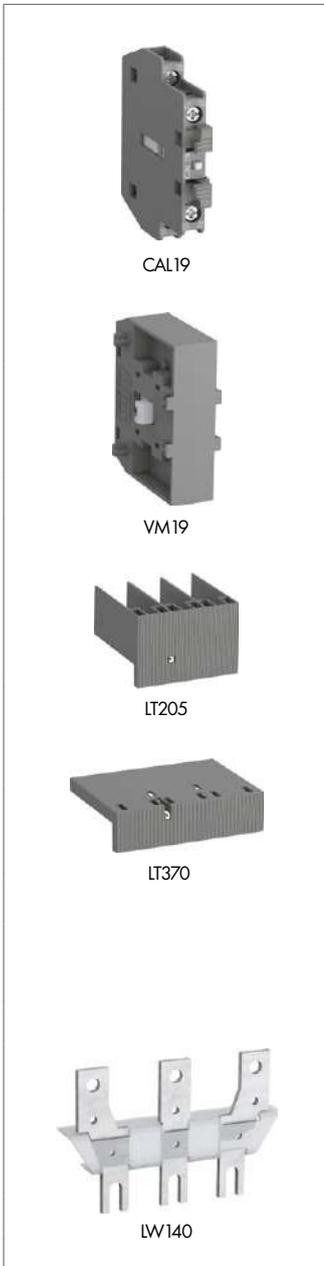
### AF190 - AF370 3 POLE CONTACTORS



Product Code	Supplier Code	IEC		UL/CSA		Rated Control Circuit Voltage		Auxiliary Contacts Fitted	Type	
		Rated Operational		3-phase	General Use Rating 600 V AC	Uc Min	Uc Max			
		Power 400 V AC-3 (kW)	Current $u \leq 40^\circ\text{C}$ AC-1 (A)	Motor Rating (hp)						
-	1SFL487002R1100	90	275	125	250	24 - 60	20 - 60	0	0	AF190-30-00-11
-	1SFL487002R1200					48 - 130	48 - 130	0	0	AF190-30-00-12
D0006358	1SFL487002R1300					100 - 250	100 - 250	0	0	AF190-30-00-13
-	1SFL487002R1400					250 - 500	250 - 500	0	0	AF190-30-00-14
-	1SFL527002R1100	110	350	150	300	24 - 60	20 - 60	0	0	AF205-30-00-11
-	1SFL527002R1200					48 - 130	48 - 130	0	0	AF205-30-00-12
D0005540	1SFL527002R1300					100 - 250	100 - 250	0	0	AF205-30-00-13
-	1SFL527002R1400					250 - 500	250 - 500	0	0	AF205-30-00-14
-	1SFL547002R1100	132	400	200	350	24 - 60	20 - 60	0	0	AF265-30-00-11
-	1SFL547002R1200					48 - 130	48 - 130	0	0	AF265-30-00-12
D0019939	1SFL547002R1300					100 - 250	100 - 250	0	0	AF265-30-00-13
-	1SFL547002R1400					250 - 500	250 - 500	0	0	AF265-30-00-14
-	1SFL587002R1100	160	500	250	400	24 - 60	20 - 60	0	0	AF305-30-00-11
-	1SFL587002R1200					48 - 130	48 - 130	0	0	AF305-30-00-12
D0005541	1SFL587002R1300					100 - 250	100 - 250	0	0	AF305-30-00-13
-	1SFL587002R1400					250 - 500	250 - 500	0	0	AF305-30-00-14
-	1SFL607002R1100	200	600	300	520	24 - 60	20 - 60	0	0	AF370-30-00-11
-	1SFL607002R1200					48 - 130	48 - 130	0	0	AF370-30-00-12
-	1SFL607002R1300					100 - 250	100 - 250	0	0	AF370-30-00-13
-	1SFL607002R1400					250 - 500	250 - 500	0	0	AF370-30-00-14

**Note** Items above with (-) in the Product Code column are available on special request

### AF116 - AF370 - 3 POLE CONTACTORS MAIN ACCESSORIES



Product Code	Supplier Code	For Contactors	Auxiliary Contacts		Type
<b>Side-mounted Instantaneous Auxiliary Contact Blocks</b>					
D0005545	1SFN010820R1011	AF116 - AF370	1	1	CAL19-11
-	1SFN010820R3311		1	1	CAL19-11B
<b>Mechanical Interlock Unit</b>					
D0019941	1SFN030300R1000	AF116 - AF370			VM19
-	1SFN034403R1000	AF116 - AF146 and AF190, AF205			VM140/190
-	1SFN035203R1000	AF190, AF205 and AF265 - AF370			VM205/265
<b>Terminal Shrouds</b>					
-	1SFN124203R1000	AF116 - AF146, with compression lugs			LT140-30L
-	1SFN124801R1000	AF190, AF205, with cable clamps			LT205-30C
-	1SFN124803R1000	AF190, AF205, with compression lugs			LT205-30L
-	1SFN124804R1000	AF190, AF205, with shorting bar or between contactor and TOL/EOL in DOL-starters			LT205-30Y
-	1SFN125401R1000	AF265 - AF370, with cable clamps			LT370-30C
-	1SFN125403R1000	AF265 - AF370, with compression lugs			LT370-30L
-	1SFN125404R1000	AF265 - AF370, with shorting bar or between contactor and TOL/EOL in DOL-starters			LT370-30Y
-	1SFN125406R1000	AF265 - AF370, for use with extending cable clamps, ATK300/2 and OZXB4			LT370-30D
Product Code	Supplier Code	For Contactors	Dimensions		Type
			Hole Ø (mm)	Bar (mm)	
<b>Terminal Enlargements</b>					
-	1SFN074207R1000	AF116 - AF146	6.5	13 x 3	LW140
-	1SFN074807R1000	AF190 - AF205	10.5	17.5 x 5	LW205
-	1SFN075407R1000	AF265 - AF370	10.5	20 x 5	LW370
<b>Terminal Extension</b>					
-	1SFN074210R1000	AF116 - AF146	6.5	13 x 3	LX140
-	1SFN074810R1000	AF190 - AF250	8.5	17.5 x 5	LX205
-	1SFN075410R1000	AF265 - AF370	10.5	20 x 5	LX370

**Note** Items above with (-) in the Product Code column are available on special request.



### AF09 - AF38 - 4 POLE CONTACTORS



AF09



AF38

Product Code	Supplier Code	IEC	UL/CSA	Rated Control Circuit Voltage		Auxiliary Contacts Fitted	Type	
		Rated Operational Current $u \leq 40^\circ\text{C AC-1}$ (A)	General Use Rating 600 V AC (A)	V 50/60 Hz	V DC			
<b>4 N.O. Main Poles</b>								
-	1SBL137201R1100	25	25	24 - 60	20 - 60	0	0	AF09-40-00-11
-	1SBL137201R1200			48 - 130	48 - 130	0	0	AF09-40-00-12
-	1SBL137201R1300			100 - 250	100 - 250	0	0	AF09-40-00-13
-	1SBL137201R1400			250 - 500	250 - 500	0	0	AF09-40-00-14
-	1SBL177201R1100	30	30	24 - 60	20 - 60 <sup>1</sup>	0	0	AF16-40-00-11
-	1SBL177201R1200			48 - 130	48 - 130	0	0	AF16-40-00-12
-	1SBL177201R1300			100 - 250	100 - 250	0	0	AF16-40-00-13
-	1SBL177201R1400			250 - 500	250 - 500	0	0	AF16-40-00-14
-	1SBL237201R1100	45	45	24 - 60	20 - 60 <sup>1</sup>	0	0	AF26-40-00-41
-	1SBL237201R1200			48 - 130	48 - 130	0	0	AF26-40-00-12
D0019927	1SBL237201R1300			100 - 250	100 - 250	0	0	AF26-40-00-13
-	1SBL237201R1400			250 - 500	250 - 500	0	0	AF26-40-00-14
-	1SBL297201R1100	55	55	24 - 60	20 - 60 <sup>1</sup>	0	0	AF38-40-00-11
-	1SBL297201R1200			48 - 130	48 - 130	0	0	AF38-40-00-12
D0019928	1SBL297201R1300			100 - 250	100 - 250	0	0	AF38-40-00-13
-	1SBL297201R1400			250 - 500	250 - 500	0	0	AF38-40-00-14
<b>2 N.O. + 2 N.C. Main Poles</b>								
-	1SBL137501R1100	25	25	24 - 60	20 - 60	0	0	AF09-22-00-11
-	1SBL137501R1200			48 - 130	48 - 130	0	0	AF09-22-00-12
-	1SBL137501R1300			100 - 250	100 - 250	0	0	AF09-22-00-13
-	1SBL137501R1400			250 - 500	250 - 500	0	0	AF09-22-00-14
-	1SBL177501R1100	30	30	24 - 60	20 - 60 <sup>1</sup>	0	0	AF16-22-00-11
-	1SBL177501R1200			48 - 130	48 - 130	0	0	AF16-22-00-12
-	1SBL177501R1300			100 - 250	100 - 250	0	0	AF16-22-00-13
-	1SBL177501R1400			250 - 500	250 - 500	0	0	AF16-22-00-14
-	1SBL237501R1100	45	45	24 - 60	20 - 60 <sup>1</sup>	0	0	AF26-22-00-11
-	1SBL237501R1200			48 - 130	48 - 130	0	0	AF26-22-00-12
-	1SBL237501R1300			100 - 250	100 - 250	0	0	AF26-22-00-13
-	1SBL237501R1400			250 - 500	250 - 500	0	0	AF26-22-00-14
-	1SBL297501R1100	55	55	24 - 60	20 - 60 <sup>1</sup>	0	0	AF38-22-00-11
-	1SBL297501R1200			48 - 130	48 - 130	0	0	AF38-22-00-12
-	1SBL297501R1300			100 - 250	100 - 250	0	0	AF38-22-00-13
-	1SBL297501R1400			250 - 500	250 - 500	0	0	AF38-22-00-14

**Note** <sup>1</sup>For 24-60 V 50/60 Hz - 20-60 V DC, use AF-11.

AF-11 not suitable for direct control by PLC-output.

Items above with (-) in the Product Code column are available on special request.



### AF40 - AF80 4 POLE CONTACTORS



AF40



AF52



AF80

Product Code	Supplier Code	IEC	UL/CSA	Rated Control Circuit Voltage		Auxiliary Contacts Fitted		Type <sup>1</sup>
		Rated Operational Current $u \leq 40^\circ\text{C}$ AC-1 (A)	General Use Rating 600 V AC (A)	Uc Min V 50/60 Hz	Uc Max V DC			
<b>4 N.O. Main Poles</b>								
-	1SBL347201R1100	70	60	24 - 60	20 - 60 <sup>1</sup>	0	0	AF40-40-00-11
-	1SBL347201R1200			48 - 130	48 - 130	0	0	AF40-40-00-12
-	1SBL347201R1300			100 - 250	100 - 250	0	0	AF40-40-00-13
-	1SBL347201R1400			250 - 500	250 - 500	0	0	AF40-40-00-14
-	1SBL367201R1100	100	80	24 - 60	20 - 60 <sup>1</sup>	0	0	AF52-40-00-11
-	1SBL367201R1200			48 - 130	48 - 130	0	0	AF52-40-00-12
-	1SBL367201R1300			100 - 250	100 - 250	0	0	AF52-40-00-13
-	1SBL367201R1400			250 - 500	250 - 500	0	0	AF52-40-00-14
-	1SBL397201R1100	125	105	24 - 60	20 - 60 <sup>1</sup>	0	0	AF80-40-00-11
-	1SBL397201R1200			48 - 130	48 - 130	0	0	AF80-40-00-12
D0019931	1SBL397201R1300			100 - 250	100 - 250	0	0	AF80-40-00-13
-	1SBL397201R1400			250 - 500	250 - 500	0	0	AF80-40-00-14
<b>2 N.O. + 2 N.C. Main Poles</b>								
-	1SBL347501R1100	70	60	24 - 60	20 - 60 <sup>1</sup>	0	0	AF40-22-00-11
-	1SBL347501R1200			48 - 130	48 - 130	0	0	AF40-22-00-12
-	1SBL347501R1300			100 - 250	100 - 250	0	0	AF40-22-00-13
-	1SBL347501R1400			250 - 500	250 - 500	0	0	AF40-22-00-14
-	1SBL397501R1100	125	105	24 - 60	20 - 60 <sup>1</sup>	0	0	AF80-22-00-11
-	1SBL397501R1200			48 - 130	48 - 130	0	0	AF80-22-00-12
-	1SBL397501R1300			100 - 250	100 - 250	0	0	AF80-22-00-13
-	1SBL397501R1400			250 - 500	250 - 500	0	0	AF80-22-00-14

**Note** <sup>1</sup>AF-11 not suitable for direct control by PLC-output.

Items above with (-) in the Product Code column are available on special request.



### MINI CONTACTORS



B6



B7

Supplier Code	IEC		UL/CSA		Rated Control Circuit Voltage U <sub>c</sub>		Auxiliary Contacts Fitted	Type	
	Rated Operational Power 400 V AC-3 (kW)	Current 8 ≤ 40°C AC-1 (A)	3- phase Motor Rating	General Use Rating	50 Hz V AC	60 Hz V AC			
<b>3 Pole AC Operated B6</b>									
GJL1211001R0101	4	20	3	300V/12A	24	24	1	0	B6-30-10-01
GJL1211001R0011	4	20	3	300V/12A			0	1	B6-30-01-01
GJL1211001R0102	4	20	3	300V/12A	42	42	1	0	B6-30-10-02
GJL1211001R0012	4	20	3	300V/12A			0	1	B6-30-01-02
GJL1211001R0103	4	20	3	300V/12A	48	48	1	0	B6-30-10-03
GJL1211001R0013	4	20	3	300V/12A			0	1	B6-30-01-03
GJL1211001R8104	4	20	3	300V/12A	110 - 127	110 - 127	1	0	B6-30-10-84
GJL1211001R8014	4	20	3	300V/12A			0	1	B6-30-01-84
GJL1211001R8100	4	20	3	300V/12A	220 - 240	220 - 240	1	0	B6-30-10-80
GJL1211001R8010	4	20	3	300V/12A			0	1	B6-30-01-80
GJL1211001R8105	4	20	3	300V/12A	380 - 415	380 - 415	1	0	B6-30-10-85
GJL1211001R8015	4	20	3	300V/12A			0	1	B6-30-01-85
<b>3 Pole AC Operated B7</b>									
GJL1311001R0101	5.5	20	5	600V/16A	24	24	1	0	B7-30-10-01
GJL1311001R0011	5.5	20	5	600V/16A			0	1	B7-30-01-01
GJL1311001R0102	5.5	20	5	600V/16A	42	42	1	0	B7-30-10-02
GJL1311001R0012	5.5	20	5	600V/16A			0	1	B7-30-01-02
GJL1311001R0103	5.5	20	5	600V/16A	48	48	1	0	B7-30-10-03
GJL1311001R0013	5.5	20	5	600V/16A			0	1	B7-30-01-03
GJL1311001R8104	5.5	20	5	600V/16A	110 - 127	110 - 127	1	0	B7-30-10-84
GJL1311001R8014	5.5	20	5	600V/16A			0	1	B7-30-01-84
GJL1311001R8100	5.5	20	5	600V/16A	220 - 240	220 - 240	1	0	B7-30-10-80
GJL1311001R8010	5.5	20	5	600V/16A			0	1	B7-30-01-80
GJL1311001R8105	5.5	20	5	600V/16A	380 - 415	380 - 415	1	0	B7-30-10-85
GJL1311001R8015	5.5	20	5	600V/16A			0	1	B7-30-01-85



### MINI CONTACTORS



Supplier Code	IEC		UL/CSA		Rated Control Circuit Voltage U <sub>c</sub> 50 Hz V AC	Auxiliary Contacts Fitted		Type
	Rated Operational Power 400 V AC-3 (kW)	Current 8 ≤ 40°C AC-1 (A)	3-phase Motor Rating	General Use Rating				
<b>3 Pole DC Operated B6</b>								
GJL1213001R0107	4	20	3	300V/12A	12	1	0	BC6-30-10-07
GJL1213001R0017	4	20	3	300V/12A		0	1	BC6-30-01-07
GJL1213001R0101	4	20	3	300V/12A	24	1	0	BC6-30-10-01
GJL1213001R0011	4	20	3	300V/12A		0	1	BC6-30-01-01
GJL1213001R1106	4	20	3	300V/12A	48	1	0	BC6-30-10-16
GJL1213001R1016	4	20	3	300V/12A		0	1	BC6-30-01-16
GJL1213001R0103	4	20	3	300V/12A	60	1	0	BC6-30-10-03
GJL1213001R0013	4	20	3	300V/12A		0	1	BC6-30-01-03
GJL1213001R0104	4	20	3	300V/12A	110 - 125	1	0	BC6-30-10-04
GJL1213001R0014	4	20	3	300V/12A		0	1	BC6-30-01-04
GJL1213001R0105	4	20	3	300V/12A	220 - 240	1	0	BC6-30-10-05
GJL1213001R0015	4	20	3	300V/12A		0	1	BC6-30-01-05
<b>3 Pole DC Operated B7</b>								
GJL1313001R0107	5.5	20	5	600V/16A	12	1	0	BC7-30-10-07
GJL1313001R0017	5.5	20	5	600V/16A		0	1	BC7-30-01-07
GJL1313001R0101	5.5	20	5	600V/16A	24	1	0	BC7-30-10-01
GJL1313001R0011	5.5	20	5	600V/16A		0	1	BC7-30-01-01
GJL1313001R1106	5.5	20	5	600V/16A	48	1	0	BC7-30-10-16
GJL1313001R1016	5.5	20	5	600V/16A		0	1	BC7-30-01-16
GJL1313001R1103	5.5	20	5	600V/16A	60	1	0	BC7-30-10-03
GJL1313001R0013	5.5	20	5	600V/16A		0	1	BC7-30-01-03
GJL1313001R0104	5.5	20	5	600V/16A	110 - 125	1	0	BC7-30-10-04
GJL1313001R0014	5.5	20	5	600V/16A		0	1	BC7-30-01-04
GJL1313001R0105	5.5	20	5	600V/16A	220 - 240	1	0	BC7-30-10-05
GJL1313001R0015	5.5	20	5	600V/16A		0	1	BC7-30-01-05

## CONTACTORS AND CONTACTOR RELAYS



### THERMAL OVERLOAD RELAYS FOR B AND AS RANGE

T16				
Supplier Code	Setting Range A	Short-circuit Protective Device	Trip Class	Type
1SAZ711201R1005	0.10 - 0.13	0.5A, fuse type T	10	T16-0.13
1SAZ711201R1008	0.13 - 0.17	1.0A, fuse type T	10	T16-0.17
1SAZ711201R1009	0.17 - 0.23	1.0A, fuse type T	10	T16-0.23
1SAZ711201R1013	0.23 - 0.31	1.0A, fuse type T	10	T16-0.31
1SAZ711201R1014	0.31 - 0.41	2.0A, fuse type gG	10	T16-0.41
1SAZ711201R1017	0.41 - 0.55	2.0A, fuse type gG	10	T16-0.55
1SAZ711201R1021	0.55 - 0.74	4.0A, fuse type gG	10	T16-0.74
1SAZ711201R1023	0.74 - 1.00	6.0A, fuse type gG	10	T16-1.0
1SAZ711201R1025	1.00 - 1.30	6.0A, fuse type gG	10	T16-1.3
1SAZ711201R1028	1.30 - 1.70	10.0A, fuse type gG	10	T16-1.7
1SAZ711201R1031	1.70 - 2.30	10.0A, fuse type gG	10	T16-2.3
1SAZ711201R1033	2.30 - 3.10	10.0A, fuse type gG	10	T16-3.1
1SAZ711201R1035	3.10 - 4.20	20.0A, fuse type gG	10	T16-4.2
1SAZ711201R1038	4.20 - 5.70	20.0A, fuse type gG	10	T16-5.7
1SAZ711201R1040	5.70 - 7.60	35.0A, fuse type gG	10	T16-7.6
1SAZ711201R1043	7.60 - 10.0	35.0A, fuse type gG	10	T16-10
1SAZ711201R1045	10.0 - 13.0	40.0A, fuse type gG	10	T16-13
1SAZ711201R1047	13.0 - 16.0	40.0A, fuse type gG	10	T16-16



### SINGLE MOUNTING KIT T16

Supplier Code	Suitable For	Description	Type
1SAZ701901R0001	T16	Single mounting kit	DB16

### MAIN ACCESSORIES FOR AF CONTACTORS RANGE

#### AF09 - AF38 3 POLE CONTACTORS TF42 THERMAL OVERLOAD RELAYS

Application:

- Overload protection
- Trip class 10
- Phase loss sensitivity
- Manual/automatic reset selectable

Description:

- 45mm width
- Suitable for contactor AF09-AF38
- Sealable operating elements



Product Code	Supplier Code	Type	Setting Ranges A-A	Suitable for Contactors
-	1SAZ721201R1005	TF42-0.13	0.10 - 0.13	AF09 - AF38
-	1SAZ721201R1008	TF42-0.17	0.13 - 0.17	
-	1SAZ721201R1009	TF42-0.23	0.17 - 0.23	
-	1SAZ721201R1013	TF42-0.31	0.23 - 0.31	
-	1SAZ721201R1014	TF42-0.41	0.31 - 0.41	
-	1SAZ721201R1017	TF42-0.55	0.41 - 0.55	
-	1SAZ721201R1021	TF42-0.74	0.55 - 0.74	
-	1SAZ721201R1023	TF42-1.0	0.74 - 1.00	
D0005065	1SAZ721201R1025	TF42-1.3	1.00 - 1.30	
D0005553	1SAZ721201R1028	TF42-1.7	1.30 - 1.70	
D0005067	1SAZ721201R1031	TF42-2.3	1.70 - 2.30	
D0005554	1SAZ721201R1033	TF42-3.1	2.30 - 3.10	
D0005069	1SAZ721201R1035	TF42-4.2	3.10 - 4.20	
D0005555	1SAZ721201R1038	TF42-5.7	4.20 - 5.70	
D0006025	1SAZ721201R1040	TF42-7.6	5.70 - 7.60	
D0003602	1SAZ721201R1043	TF42-10	7.60 - 10.0	
D0003603	1SAZ721201R1045	TF42-13	10.0 - 13.0	
D0006022	1SAZ721201R1047	TF42-16	13.0 - 16.0	
D0003604	1SAZ721201R1049	TF42-20	16.0 - 20.0	
D0003605	1SAZ721201R1051	TF42-24	20.0 - 24.0	
D0003606	1SAZ721201R1052	TF42-29	24.0 - 29.0	
D0005078	1SAZ721201R1053	TF42-35	29.0 - 35.0	
-	1SAZ721201R1055	TF42-38	35.0 - 38.0/40.0	



#### SINGLE MOUNTING KIT TF42

Supplier Code	SuitableFor	Description	Type
1SAZ701902R0001	TF42	Single mounting kit	DB42

**Note** Items above with (-) in the Product Code column are available on special request.

## CONTACTORS AND CONTACTOR RELAYS



### THERMAL OVERLOAD RELAYS FOR AF40 - AF65 RANGE

- TF65

Product Code	Supplier Code	Setting Range A	Short-circuit Protective Device	Trip Class	Type
-	1SAZ811201R1001	22.0 - 28.0	80A, gG type fuses	10	TF65-28
-	1SAZ811201R1002	25.0 - 33.0	80A, gG type fuses	10	TF65-33
D0020479	1SAZ811201R1003	30.0 - 40.0	100A, gG type fuses	10	TF65-40
-	1SAZ811201R1004	36.0 - 47.0	125A, gG type fuses	10	TF65-47
-	1SAZ811201R1005	44.0 - 53.0	125A, gG type fuses	10	TF65-53
-	1SAZ811201R1006	50.0 - 60.0	125A, gG type fuses	10	TF65-60
-	1SAZ811201R1007	57.0 - 67.0	160A, gG type fuses	10	TF65-67



### SINGLE MOUNTING KIT FOR TF65

Product Code	Supplier Code	Suitable for	Description	Type
-	1SAZ801901R1001	TF65	DB65 single mounting kit	DB65



### THERMAL OVERLOAD RELAYS FOR AF80 - AF96 RANGE

- TF96

Product Code	Supplier Code	Setting Range A	Short-circuit Protective Device	Trip Class	Type
-	1SAZ911201R1001	40.0 - 51.0	125 A, gG type fuses	10	TF96-51
-	1SAZ911201R1002	48.0 - 60.0	160 A, gG type fuses	10	TF96-60
-	1SAZ911201R1003	57.0 - 68.0	160 A, gG type fuses	10	TF96-68
-	1SAZ911201R1004	65.0 - 78.0	200 A, gG type fuses	10	TF96-78
-	1SAZ911201R1005	75.0 - 87.0	200 A, gG type fuses	10	TF96-87
-	1SAZ911201R1006	84.0 - 96.0	250 A, gG type fuses	10	TF96-96



### SINGLE MOUNTING KIT FOR TF96

Product Code	Supplier Code	Suitable For	Description	Type
-	1SAZ901901R1001	TF96	DB96 single mounting kit	DB96

**Note** Items above with (-) in the Product Code column are available on special request.



### THERMAL OVERLOAD RELAYS FOR AF116 - AF140 RANGE

- TF140

Product Code	Supplier Code	Setting Range A	Short-circuit Protective Device	Trip Class	Type
-	1SAZ431201R1001	66 - 90	200A, fuse type gG	10A	TF140DU-90
-	1SAZ431201R1002	80 - 110	224A, fuse type gG	10A	TF140DU-110
-	1SAZ431201R1003	100 - 135	224A, fuse type gG	10A	TF140DU-135
-	1SAZ431201R1004	110 - 142	250A, fuse type gG	10A	TF140DU-142



### THERMAL OVERLOAD RELAYS FOR AF190 - AF205 RANGE

- TA200

Product Code	Supplier Code	Setting Range A	Short-circuit Protective Device	Trip Class	Type
-	1SAZ421201R1001	66 - 90	200A, fuse type gG/125 A aM	10A	TA200DU-90
-	1SAZ421201R1002	80 - 110	224A, fuse type gG/160 A aM	10A	TA200DU-110
-	1SAZ421201R1003	100 - 135	224A, fuse type gG/200 A aM	10A	TA200DU-135
-	1SAZ421201R1004	110 - 150	250A, fuse type gG/200 A aM	10A	TA200DU-150
-	1SAZ421201R1005	130 - 175	315A, fuse type gG/250 A aM	10A	TA200DU-175
D0020119	1SAZ421201R1006	150 - 200	315A, fuse type gG/250 A aM	10A	TA200DU-200



### SINGLE MOUNTING KIT FOR TA200DU

Product Code	Supplier Code	Suitable For	Description	Type
-	1SAZ401110R0001	TA200DU	DB200 single mounting kit	DB200



### BLOCK CONTACTORS - OVERLOAD RELAYS FOR A CONTACTOR RANGE

- TA200

Product Code	Supplier Code	Type	Rating and Adjustment Range	Contactor Fitment	Description
-	1SAZ421201R1004	TA200 DU-150	110 - 150	A145 - A185	Thermal overload for up to 690V
-	1SAZ421201R1005	TA200 DU-175	130 - 175		
-	1SAZ421201R1006	TA200 DU-200	150 - 200		
-	1SAZ511201R1002	TA450 DU 235	165 - 235	A210 - A300	
-	1SAZ511201R1003	TA450 DU 310	220 - 310		

**Note** Items above with (-) in the Product Code column are available on special request.

## CONTACTORS AND CONTACTOR RELAYS

**ABB**



### BLOCK CONTACTORS OVERLOAD RELAYS A RANGE - ELECTRONIC OVERLOAD RELAYS FOR B6/B7 TO AF1250

- For contactors A9-A1650
- E16 - E1250 DU

Product Code	Supplier Code	Type	Rating and Adjustment Range	Contactor Fitment	Description
-	1SAX111001R1101	E16 DU 0.32	0.1 - 0.32	-	Electronic overload
-	1SAX111001R1102	E16 DU 1.0	0.3 - 1.00	-	
-	1SAX111001R1103	E16 DU 2.7	0.9 - 2.70	-	
-	1SAX111001R1104	E16 DU 6.3	2.0 - 6.30	-	
-	1SAX111001R1105	E16 DU 18.9	5.7 - 18.9	-	

**Note** Items above with (-) in the Product Code column are available on special request.



### ELECTRONIC TIMERS CT-D RANGE

**Description:**

- The CT-D range with a width of only 17.5mm fits into all domestic installation and distribution panels.
- The devices offer 4 or 7 time ranges from 0.05 seconds up to 100 hours.
- Offers LEDs for status indication.



Supplier Code	Timing Function	Rated Control Supply Voltage	Time Ranges	Control Input	Output	Type	
1SVR500020R0000	Multifunctional <sup>1</sup>	24-240 VAC 24-48 VDC	7 (0.05s - 100h)	■	1 c/o	CT-MFD.12	
1SVR500020R1100	Multifunctional <sup>1</sup>	12-240 VAC/DC	7 (0.05s - 100h)	■	2 c/o	CT-MFD.21	
1SVR500100R0000	ON-delay	24-240 VAC 24-48 VDC	7 (0.05s - 100h)	-	1 c/o	CT-ERD.12	
1SVR500100R0100				-	2 c/o	CT-ERD.22	
1SVR500110R0000	OFF-delay			■	1 c/o	CT-AHD.12	
1SVR500110R0100				■	2 c/o	CT-AHD.22	
1SVR500130R0000	Impulse-ON			-	1 c/o	CT-VWD.12	
1SVR500150R0000	Flasher starting with ON			-		CT-EBD.12	
1SVR500160R0000	Pulse generator			2x7 (0.05s - 100h)	■	CT-TGD.12 <sup>2</sup>	
1SVR500160R0100				■	2 c/o	CT-TGD.22 <sup>2</sup>	
1SVR500211R0100	Star-delta change-over			4 (0.05s - 10min)	-	2 c/o	CT-SDD.22 <sup>3</sup>
1SVR500210R0100					-		CT-SAD.22 <sup>4</sup>

**Note** Functions: <sup>1</sup> ON-delay, OFF-delay with auxiliary voltage, Impulse-ON, Impulse-OFF with auxiliary voltage, Flasher starting with ON, Flasher starting with OFF, Pulse former

<sup>2</sup> ON and OFF times adjustable independently: 2 x 7 time ranges 0.05 s - 100 h

<sup>3</sup> Transition time 50 ms fixed

<sup>4</sup> Transition time adjustable

Note: ■ Control input with voltage-related triggering

- No triggering

**Synonyms:**

Used expression	alternative expression(s)	Used expression	alternative expression(s)
1 c/o contact	SPDT	voltage-related	wet/non-floating
2 c/o contact	DPDT	volt-free	dry/floating



### ELECTRONIC TIMERS CT-E RANGE

- This range offers highest possible flexibility with:
  - 56 single-function timers with 5 different time ranges
  - 2 multifunction timers with 6 functions and 8 time ranges



Supplier Code	Timing Function	Rated Control Supply Voltage	Time Ranges	Control Input	Output	Type
1SVR550029R8100	Multifunctional <sup>1</sup>	24-240VAC/DC	8 (0.05 s- 100 h)	■	1 c/o	CT-MFE
1SVR550107R1100	ON-delay	24 V AC/DC, 220-240 V AC	0.1-10 s	-	1 c/o	CT-ERE
1SVR550107R4100			0.3-30 s			
1SVR550107R2100			3-300 s			
1SVR550107R5100			0.3-30 min			
1SVR550100R1100		110-130 V AC	0.1-10 s			
1SVR550100R4100			0.3-30 s			
1SVR550100R2100			3-300 s			
1SVR550100R5100			0.3-30 min			
1SVR550118R1100	OFF-delay	24 V AC/DC	0.1-10 s	■	1 c/o	CT-AHE
1SVR550118R4100			0.3-30 s			
1SVR550118R2100			3-300 s			
1SVR550110R1100		110-130 V AC	0.1-10 s			
1SVR550110R4100			0.3-30 s			
1SVR550110R2100			3-300 s			
1SVR550111R1100		220-240 V AC	0.1-10 s			
1SVR550111R4100			0.3-30 s			
1SVR550111R2100	3-300 s					
1SVR550127R1100	OFF-delay <sup>2</sup>	24 V AC/DC, 220-240 V AC	0.1-10 s	-	1 c/o	CT-ARE
1SVR550127R4100			0.3-30 s			
1SVR550120R1100		110-130 V AC	0.1-10 s			
1SVR550120R4100			0.3-30 s			
1SVR550137R1100	Impulse-ON	24 V AC/DC, 220-240 V AC	0.1-10 s	-	1 c/o	CT-VWE
1SVR550137R4100			0.3-30 s			
1SVR550137R2100			3-300 s			
1SVR550130R1100		110-130 V AC	0.1-10 s			
1SVR550130R4100			0.3-30 s			
1SVR550130R2100			3-300 s			
1SVR550158R3100	Impulse-OFF <sup>2</sup>	24 V AC/DC	0.05-1 s	-	1 c/o	CT-AWE
1SVR550150R3100		110-130 V AC				
1SVR550151R3100		220-240 V AC				

**Note** Functions: <sup>1</sup> ON-delay, OFF-delay with auxiliary voltage, Impulse-ON, Flasher starting with ON, Flasher starting with OFF, Pulse former

<sup>2</sup> Without auxiliary voltage, True Off-delay timer.

Note: ■ Control input with voltage-related triggering

- No triggering



### ELECTRONIC TIMERS CT-E RANGE

Supplier Code	Timing Function	Rated Control Supply Voltage	Time Ranges	Control Input	Output	Type
1SVR550148R1100	Impulse-OFF	24VAC/DC	0.1-10 s	■	1 c/o	CT-AWE
1SVR550148R4100			0.3-30 s			
1SVR550148R2100			3-300 s			
1SVR550140R1100		110-130 V AC	0.1-10 s			
1SVR550140R4100			0.3-30 s			
1SVR550140R2100			3-300 s			
1SVR550141R1100		220-240 V AC	0.1-10 s			
1SVR550141R4100			0.3-30 s			
1SVR550141R2100			3-300 s			
1SVR550167R1100	Flasher starting with OFF	24 V AC/DC, 220-240 V AC	0.1-10 s	-	1 c/o	CT-EBE <sup>4</sup>
1SVR550160R1100		110-130 V AC				
1SVR550207R1100	Star-delta change-over twice ON-delayed	24 VAC/DC, 220-240 V AC	0.1-10 s	-	1 c/o	CT-YDE <sup>1 2</sup>
1SVR550207R4100			0.3-30 s			
1SVR550207R2100			3-300 s			
1SVR550200R1100		110-130 V AC	0.1-10 s			
1SVR550200R4100			0.3-30 s			
1SVR550200R2100			3-300 s			
1SVR550217R4100	Star-delta change-over with impulse	24 VAC/DC, 220-240 V AC	0.3-30 s	-	1 n/o + 1 n/c	CT-SDE <sup>2 5</sup>
1SVR550210R4100		110-130 V AC				
1SVR550212R4100		380-415 V AC				
1SVR550019R0000	Multifunctional	24-240 V AC/DC	0.1-10 s 3-300 s	-	Solid-state	CT-MKE <sup>3 6</sup>
1SVR550509R1000	ON-delay	24-240 V AC/DC	0.1-10 s	-		CT-EKE
1SVR550509R4000			0.3-30 s			
1SVR550509R2000			3-300 s			
1SVR550519R1000	OFF-delay	24-240 V AC	0.1-10 s	-		CT-AKE
1SVR550519R4000			0.3-30 s			
1SVR550519R2000			3-300 s			



**Note** Functions: <sup>1</sup> Without auxiliary voltage

<sup>2</sup> With fixed transition time

<sup>3</sup> Solid-state output, functions and time range selection via external jumpers

<sup>4</sup> Symetric ON & OFF times

<sup>5</sup> Common contact

<sup>6</sup> Functions: ON-delay (AC/DC), Impuls-ON (AC only), Flasher starting with OFF (AC only)

**Note:** CT-KE are solid-state timers with thyristor output for 2-wire applications. They are connected directly in series with the control coil of contactors or relays. Voltage should not be applied without a load connected, because there is no current limiting in the unit.

**Note:** ■ Control input with voltage-related triggering

- No triggering



### ELECTRONIC TIMERS CT-S RANGE

**Description:**

- This range is diverse and offers:
  - 8 multifunction timers - 13 single function timers
- Innovative connection technology with double chamber cage connection terminals. The easy connect technology uses push-in terminals which means tool free wiring.

Supplier Code	Timing Function	Rated Control Supply Voltage	Time Ranges	Control Input	Output	Type	
1SVR730020R0200	Multifunctional <sup>5</sup>	24 - 240 V AC/DC	10 (0.05 - 300h)	■	2 c/o	CT-MVS.21S <sup>1 2 3</sup>	
1SVR740020R0200						CT-MVS.21P <sup>1 2 3</sup>	
1SVR730020R3300		24-48 V DC, 24-240 V AC				CT-MVS.22S	
1SVR740020R3300						CT-MVS.22P	
1SVR730021R2300		380-440 V AC				CT-MVS.23S	
1SVR740021R2300						CT-MVS.23P	
1SVR730020R3100	Multifunctional <sup>6</sup>	24-48 V DC, 24-240 V AC	10 (0.05s - 300h)	■	1 c/o	CT-MVS.12S	
1SVR740020R3100						CT-MVS.12P	
1SVR730030R3300	Multifunctional <sup>7</sup>	24-48 V DC, 24-240 V AC	2x10 (0.05s - 300h)	■	2 c/o	CT-MXS.22S <sup>4</sup>	
1SVR740030R3300						CT-MXS.22P <sup>4</sup>	
1SVR730010R0200	Multifunctional <sup>8</sup>	24-240 V AC/DC	10 (0.05s - 300h)	□/□	2 c/o	CT-MFS.21S <sup>1 2 3</sup>	
1SVR740010R0200						CT-MFS.21P <sup>1 2 3</sup>	
1SVR730010R3200		24-48 V DC, 24-240 V AC		10 (0.05s - 300h)	□	2 c/o	CT-MBS.22S <sup>2 3</sup>
1SVR740010R3200							CT-MBS.22P <sup>2 3</sup>
1SVR730040R3300	Multifunctional <sup>9</sup>	24-48 V DC, 24-240 V AC	10 (0.05s - 300h)	-	2 c/o	CT-WBS.22S	
1SVR740040R3300						CT-WBS.22P	

**Note** S: screw connection

P: push-in / easy connect

<sup>1</sup> Extended temperature range -40°C

<sup>2</sup> Remote potentiometer connection

<sup>3</sup> 2nd c/o contact selectable as instantaneous contact

<sup>4</sup> 2 remote potentiometer connections

<sup>5</sup> Functions: ON-delay, OFF-delay with auxiliary voltage, Impulse-ON, Impulse-OFF with auxiliary voltage, Symmetrical ON- and OFF-delay, Flasher starting with ON or OFF, Star-delta change-over with impulse, Pulse former, Accumulative ON-delay, ON/OFF-function

<sup>6</sup> Functions: ON-delay, OFF-delay with auxiliary voltage, Impulse-ON, Impulse-OFF with auxiliary voltage, Symmetrical ON- and OFF-delay, Flasher starting with ON or OFF, Pulse former, Accumulative ON-delay, ON/OFF-function

<sup>7</sup> Functions: Select function via DIP switches behind the marker label on the front of the unit, asymmetrical ON- and OFF-delay, Impulse-ON/OFF, Pulse generator starting with ON or OFF, Single pulse generator, ON/OFF-function

<sup>8</sup> Functions: ON-delay, OFF-delay with auxiliary voltage, Impulse-ON, Impulse-OFF with auxiliary voltage, Symmetrical ON- and OFF-delay, Flasher starting with ON, Flasher starting with OFF, Star-delta change-over with impulse, Pulse former, ON/OFF-function

<sup>9</sup> Functions: Flasher starting with ON, Flasher starting with OFF, Impulse-ON, ON-delay, fixed impulse with adjustable time delay, Adjustable impulse with fixed time delay, ON/OFF-function

Note: ■ Control input with voltage-related triggering

□ Control input with volt-free triggering

□/□ Two control input with volt-free triggering

- No triggering



### ELECTRONIC TIMERS CT-S RANGE

Supplier Code	Timing Function	Rated Control Supply Voltage	Time Ranges	Control Input	Output	Type		
1SVR730100R0300	ON-delay	24-240 V AC/DC	10 (0.05s - 300h)	-	2 c/o	CT-ERS.21S <sup>1</sup>		
1SVR740100R0300						CT-ERS.21P <sup>1</sup>		
1SVR730100R3300		24-48 V DC, 24-240 V AC				CT-ERS.22S		
1SVR740100R3300						CT-ERS.22P		
1SVR730100R3100		24-48 V DC, 24-240 V AC			-	1 c/o	CT-ERS.12S	
1SVR740100R3100							CT-ERS.12P	
1SVR730180R0300	OFF-delay	24-240 V AC/DC	10 (0.05s - 300h)	■	2 c/o	CT-APS.21S <sup>1</sup>		
1SVR740180R0300						CT-APS.21P <sup>1</sup>		
1SVR730180R3300		24-48 V DC, 24-240 V AC				CT-APS.22S		
1SVR740180R3300						CT-APS.22P		
1SVR730180R3100		■			1 c/o	CT-APS.12S		
1SVR740180R3100						CT-APS.12P		
1SVR730110R3300		24-48 V DC, 24-240 V AC		10 (0.05 s - 300h)	□	2 c/o	CT-AHS.22S	
1SVR740110R3300							CT-AHS.22P	
1SVR730120R3100		OFF-delay <sup>2</sup>		24-240 V AC/DC	7 (0.05s - 10 min)	-	1 c/o	CT-ARS.11S
1SVR740120R3100								CT-ARS.11P
1SVR730120R3300	-		2 c/o			CT-ARS.21S		
1SVR740120R3300						CT-ARS.21P		
1SVR730210R3300	Star-delta change-over <sup>3</sup>	24-48 V DC, 24-240 V AC	7 (0.05s - 10min)	-	2 n/o	CT-SDS.22S		
1SVR740210R3300						CT-SDS.22P		
1SVR730211R2300		380-440 V AC				CT-SDS.23S		
1SVR740211R2300						CT-SDS.23P		

- Note**
- S: screw connection
  - P: push-in / easy connect
  - <sup>1</sup> Extended temperature range -40°C
  - <sup>2</sup> Without auxiliary voltage
  - <sup>3</sup> 50 ms transition time

- Note: ■ Control input with voltage-related triggering
- Control input with volt-free triggering
  - No triggering



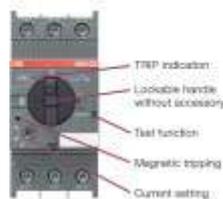
### AUTOMATION DEVICES MANUAL MOTOR STARTERS

#### MS116 AND MS132 MANUAL MOTOR STARTERS HARMONISED DESIGN IN 45mm WIDTH

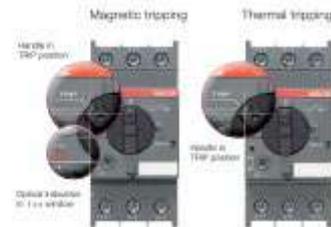


Product code	Type	MS116	MS132
-	Setting range	0.1 - 16A	0.1 - 32A
-	Switch position	ON/OFF	ON/OFF/Trip
-	Magnetic trip indication	-	Yes
-	Lockable handle without accessories	-	Yes
-	Max. breaking capacity Ics	Up to 50kA	Up to 100kA
-	Trip class	10A	10A

#### ON/OFF Switch Functionality

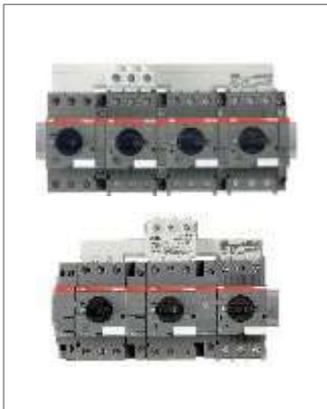


#### Clear Tripping Identification



#### ONE RANGE OF ACCESSORIES FOR MS116 AND MS132

- Common auxiliary contacts, signaling contacts and auxiliary trip units
- Common busbar systems



**Note** Items above with (-) in the Product Code column are available on special request.



### MANUAL MOTOR STARTERS

#### MS116, MS132



Product Code	Supplier Code	Rated Operational Power 400 V AC-3 (Kw)	Setting Range (A)	Short-circuit Breaking Capacity Ics at 400 VAC (kA)	Rated Instantaneous Short-circuit Current Setting Ii (A)	Type
<b>MS116</b>						
-	1SAM250000R1001	0.03	0.10 - 0.16	50	2.00 <sup>1</sup>	MS116 - 0.16
D0013527	1SAM250000R1002	0.06	0.16 - 0.25	50	3.10 <sup>1</sup>	MS116 - 0.25
D0019858	1SAM250000R1003	0.09	0.25 - 0.40	50	5.00 <sup>1</sup>	MS116 - 0.4
D0019859	1SAM250000R1004	0.12	0.40 - 0.63	50	7.90 <sup>1</sup>	MS116 - 0.63
D0005997	1SAM250000R1005	0.25	0.63 - 1.00	50	12.5 <sup>1</sup>	MS116 - 1.0
D0005996	1SAM250000R1006	0.55	1.00 - 1.60	50	20.0 <sup>1</sup>	MS116 - 1.6
D0005549	1SAM250000R1007	0.75	1.60 - 2.50	50	31.3 <sup>1</sup>	MS116 - 2.5
D0006348	1SAM250000R1008	1.5	2.50 - 4.00	50	50	MS116 - 4.0
D0006004	1SAM250000R1009	2.2	4.00 - 6.30	50	78.8	MS116 - 6.3
D0005548	1SAM250000R1010	4	6.30 - 10.0	50	150	MS116 - 10
D0003579	1SAM250000R1012	5.5	8.00 - 12.0	25	180	MS116 - 12
D0003580	1SAM250000R1011	7.5	10.0 - 16.0	16	240	MS116 - 16
-	1SAM250000R1013	7.5	16.0 - 20.0	10	300	MS116 - 20
-	1SAM250000R1014	11	20.0 - 25.0	10	375	MS116 - 25
-	1SAM250000R1015	15	25.0 - 32.0	10	480	MS116 - 32
<b>MS132</b>						
-	1SAM350000R1001	0.03	0.10 - 0.16	100	2.00 <sup>1</sup>	MS132 - 0.16
-	1SAM350000R1002	0.06	0.16 - 0.25	100	3.10 <sup>1</sup>	MS132 - 0.25
D0019858	1SAM350000R1003	0.09	0.25 - 0.40	100	5.00 <sup>1</sup>	MS132 - 0.4
D0019859	1SAM350000R1004	0.12	0.40 - 0.63	100	7.90 <sup>1</sup>	MS132 - 0.63
-	1SAM350000R1005	0.25	0.63 - 1.00	100	12.5 <sup>1</sup>	MS132 - 1.0
D0006001	1SAM350000R1006	0.55	1.00 - 1.60	100	20.0 <sup>1</sup>	MS132 - 1.6
-	1SAM350000R1007	0.75	1.60 - 2.50	100	31.3 <sup>1</sup>	MS132 - 2.5
D0006003	1SAM350000R1008	1.5	2.50 - 4.00	100	50	MS132 - 4.0
D0006004	1SAM350000R1009	2.2	4.00 - 6.30	100	78.8	MS132 - 6.3
D0003581	1SAM350000R1010	4	6.30 - 10.0	100	150	MS132 - 10
D0003582	1SAM350000R1012	5.5	8.00 - 12.0	100	180	MS132 - 12
D0003583	1SAM350000R1011	7.5	10.0 - 16.0	100	240	MS132 - 16
D0019514	1SAM350000R1013	7.5	16.0 - 20.0	100	300	MS132 - 20
D0003584	1SAM350000R1014	11	20.0 - 25.0	50	375	MS132 - 25
D0003585	1SAM350000R1015	15	25.0 - 32.0	25	480	MS13 - 32

**Note** Manual motor starters should always be selected so that the actual motor current is within the setting range.

<sup>1</sup>The data is valid for products, produced after week 34, 2014.

Items above with (-) in the Product Code column are available on special request.



### MS165

Supplier Code	Rated Operational Power 400 V AC-3 (Kw)	Setting Range (A)	Short-circuit Breaking Capacity Ics at 400 VAC (kA)	Rated Instantaneous Short-circuit Current Setting Ii (A)	Type
1SAM451000R1011	7.5	10 - 16	100	240	MS165 - 16
1SAM451000R1012	7.5	14 - 20	100	300	MS165 - 20
1SAM451000R1013	11	18 - 25	100	375	MS165 - 25
1SAM451000R1014	15	23 - 32	100	480	MS165 - 32
1SAM451000R1015	22	30 - 42	50	630	MS165 - 42
1SAM451000R1016	22	40 - 54	30	810	MS165 - 54
1SAM451000R1017	30	52 - 65	30	975	MS165 - 65
1SAM451000R1018	37	62 - 73	30	1022	MS165 - 73
1SAM451000R1019	45	70 - 80	30	1120	MS165 - 80



### MS450: SETTING RANGES FROM 40 TO 50A

Product Code	Supplier Code	Description	Current Range (A)	Rated kA (400V)
-	1SAM450000R1005	MS450-40	28 - 40	50
-	1SAM450000R1006	MS450-45	36 - 45	
-	1SAM450000R1007	MS450-50	40 - 50	

## AUTOMATION DEVICES MANUAL MOTOR STARTERS

Function:

- For isolating and providing thermal overload protection and short circuit protection for motors

Application:

- Motor protection



### MS495: 4 SETTING RANGES FROM 63 TO 100A

Product Code	Supplier Code	Description	Current Range (A)	Rated kA (400V)
-	1SAM550000R1005	MS495-40	28 - 40	50
-	1SAM550000R1006	MS495-63	36 - 50	
-	1SAM550000R1007	MS495-63	45 - 63	
-	1SAM550000R1008	MS495-75	57 - 75	
-	1SAM550000R1009	MS495-90	70 - 90	
-	1SAM550000R1010	MS495-100	80 - 100	

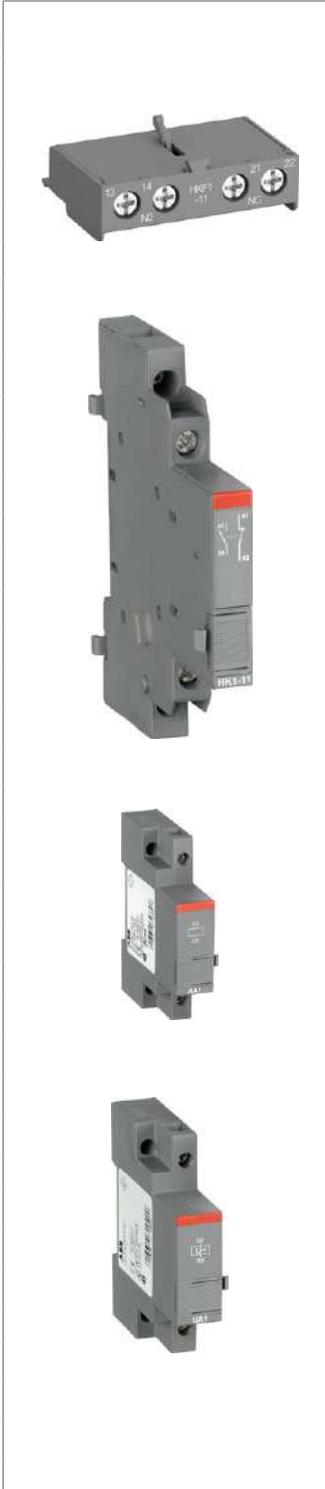
**Note** Manual motor starters should always be selected so that the actual motor current is within the setting range.

Items above with (-) in the Product Code column are available on special request.



### MANUAL MOTOR STARTERS - MAIN ACCESSORIES

#### MS116, MS132, MS165, MO132, MO165, MS132-T



Product Code	Supplier Code	Auxiliary Contacts N.O.	Auxiliary Contacts N.C.	Description	Type
<b>Auxiliary Contacts – Mountable on the Front</b>					
D0003578	1SAM201901R1001	1	1		HKF1-11
-	1SAM201901R1003	1	0		HKF1-10
-	1SAM201901R1004	0	1		HKF1-01
-	1SAM201901R1002	2	0		HKF1-20
<b>Auxiliary Contacts – Mountable on the Right</b>					
D0003577	1SAM201902R1001	1	1	Max. 2 pieces	HK1-11
D0003547	1SAM201902R1002	2	0	Max. 2 pieces	HK1-20
-	1SAM201902R1003	0	2	Max. 2 pieces	HK1-02
-	1SAM201902R1004	2	0	With lead contacts	HK1-20L
<b>Signaling Contacts – Mountable on the Right</b>					
-	1SAM201903R1001	1	1	For tripped alarm, max. 2 pieces	SK1-11
-	1SAM201903R1002	2	0	For tripped alarm, max. 2 pieces	SK1-20
-	1SAM201903R1003	0	2	For tripped alarm, max. 2 pieces	SK1-02
-	1SAM301901R1001	1	1	For short-circuit alarm, max. 2 pieces	CK1-11
-	1SAM301901R1002	2	0	For short-circuit alarm, max. 2 pieces	CK1-20
-	1SAM301901R1003	0	2	For short-circuit alarm, max. 2 pieces	CK1-02
Product Code	Supplier Code	50 Hz V AC		60 Hz V AC	Type
<b>Shunt Trips – Mountable on the Left</b>					
-	1SAM201910R1001	20 - 24		20 - 24	AA1-24
-	1SAM201910R1002	110		110	AA1-110
-	1SAM201910R1003	200 - 240		200 - 240	AA1-230
-	1SAM201910R1004	350 - 415		350 - 415	AA1-400
<b>Shunt Trips – Mountable on the Left</b>					
-	1SAM201904R1010	20		24	UA1-20
-	1SAM201904R1001	24		-	UA1-24
-	1SAM201904R1002	48		-	UA1-48
-	1SAM201904R1003	60		-	UA1-60
-	1SAM201904R1004	110		120	UA1-110
-	1SAM201904R1008	-		208	UA1-208
-	1SAM201904R1005	230		240	UA1-230
-	1SAM201904R1006	400		-	UA1-400
-	1SAM201904R1007	415		480	UA1-415
-	1SAM201904R1009	-		575	UA1-575

**Note** Items above with (-) in the Product Code column are available on special request.



### MANUAL MOTOR STARTERS - MAIN ACCESSORIES

#### MS116, MS132, MO132, MS132-T - MAIN ACCESSORIES



Product Code	Supplier Code	Suitable For	Rated Operational Current (A)	Number of MMS	Number of Lateral Aux.	Type
Three-phase Busbars						
-	1SAM201906R1102	MS116 MS132 MO132	65	2	0	PS1 - 2 - 0 - 65
D0003587	1SAM201906R1103		65	3	0	PS1 - 3 - 0 - 65
-	1SAM201906R1104		65	4	0	PS1 - 4 - 0 - 65
D0003589	1SAM201906R1105		65	5	0	PS1 - 5 - 0 - 65
-	1SAM201906R1112		65	2	1	PS1 - 2 - 1 - 65
-	1SAM201906R1113		65	3	1	PS1 - 3 - 1 - 65
-	1SAM201906R1114		65	4	1	PS1 - 4 - 1 - 65
-	1SAM201906R1115		65	5	1	PS1 - 5 - 1 - 65
-	1SAM201906R1122		65	2	2	PS1 - 2 - 2 - 65
-	1SAM201906R1123		65	3	2	PS1 - 3 - 2 - 65
-	1SAM201906R1124		65	4	2	PS1 - 4 - 2 - 65
-	1SAM201906R1125		65	5	2	PS1 - 5 - 2 - 65
D0003586	1SAM201916R1103		100	3	0	PS1 - 3 - 0 - 100
-	1SAM201916R1104		100	4	0	PS1 - 4 - 0 - 100
D0003588	1SAM201916R1105		100	5	0	PS1 - 5 - 0 - 100
-	1SAM201916R1113		100	3	1	PS1 - 3 - 1 - 100
-	1SAM201916R1114		100	4	1	PS1 - 4 - 1 - 100
-	1SAM201916R1115		100	5	1	PS1 - 5 - 1 - 100
-	1SAM201916R1123		100	3	2	PS1 - 3 - 2 - 100

**Note** Items above with (-) in the Product Code column are available on special request.



### MANUAL MOTOR STARTERS - MAIN ACCESSORIES

#### THREE-PHASE FEEDER TERMINALS



Product Code	Supplier Code	Suitable For	Rated Operational Current (A)	Rated Cross Section (mm <sup>2</sup> )	Mounting Form	Type
D0003599	1SAM201907R1101	MS116 MS132 MO132	65	25	Flat	S1-M1-25
-	1SAM201907R1102		65	25	High	S1-M2-25
-	1SAM201907R1103		65	25	UL type E and IEC	S1-M3-25
D0003600	1SAM201913R1103		100	35	UL type E and IEC	S1-M3-35
Supplier Code		Suitable For	Description			Type
1SAM201908R1001		MS116, MS132, MO132	Protection cover for busbars			BS1-3
GJF1101903R0001		MS116	Lock handle			SA1
GJF1101903R0003			Lock handle box SA1/SA2			SA3
Accessories for Single-phase Connection (IEC only)						
1SAM201914R1001		MS116, MS132, MO132,	Phase connecting link			PB1-1-32
1SAM201914R1002		MS132-T	Phase power infeed block			S1-PB1-25

#### MS165, MO165 - MAIN ACCESSORIES



Supplier Code	Suitable For	Rated Operational Current (A)	Number of MMS	Number of Lateral Aux.	Type
Three-phase Busbars					
1SAM401920R1002	MS165 MO165	125	2	0	PS2-2-0-125
1SAM401920R1003		125	3	0	PS2-3-0-125
1SAM401920R1004		125	4	0	PS2-4-0-125
1SAM401920R1022		125	2	2	PS2-2-2-125
1SAM401920R1023		125	3	2	PS2-3-2-125
1SAM401920R1024		125	4	2	PS2-4-2-125
Supplier Code	Suitable For	Description			Type
1SAM401922R1001	MS165, MO165	Terminal shroud			KA165
1SAM401921R1001		Protection cover for busbars			BS2-3
GJF1101903R0002		Padlock + two keys			SA2

**Note** Items above with (-) in the Product Code column are available on special request.



### GENERAL ACCESSORIES

#### MS1xx, MOxx, MS49x, MO49x



Product Code	Supplier Code	Suitable For	Description	Shaft Length (mm)	Colour	Type
<b>Shafts</b>						
-	1SCA101647R1001	MS116 MS132 MO132 MS165 MO165 MS4xx MO4xx	For MSHD handles. Shaft diameter 6mm. Shaft extension for door coupling driver.			OXS6X85
-	1SCA108043R1001			85		OXS6X105
D0005630	1SCA101655R1001			105		OXS6X130
D0005631	1SCA101659R1001			130		OXS6X180
		180				
<b>IP64 Handles (UL/CSA Type 1, 3R, 12)</b>						
-	1SAM201920R1001	MS116 MS132 MO132 MS165 MO165 MS4xx MO4xx	Padlockable max. 3 padlocks with bail diameter 5-8mm, door interlock in ON position defeatable, for use with 6mm OXS6... types up to 180mm or driver shafts MSOX.		Black	MSHD-LB
-	1SAM201920R1002				Yellow	MSHD-LY
-	1SAM201920R1011				Black	MSHD-LTB
-	1SAM201920R1012				Yellow	MSHD-LTY
<b>Driver</b>						
-	1SAM101923R0002	MS116 MS132 MO132 MS165 MO165 MS4xx MO4xx	Coupling driver for use with 6mm OXS6 types up to 180mm.			MSMN
-	1SAM101923R0012					MSMNO
<b>Shaft Alignment Ring</b>						
-	1SAM201920R1000	MS116 MS132 MO132 MS165 MO165 MS4xx MO4xx	The MSH-AR supports the long shafts for alignment to the handle inlet. It makes closing panel doors more easy. Use for OXS6X > 105mm.			MSH-AR
<b>Shaft Supporter</b>						
-	1SAM201909R1021	MS116 MS132 MO132	With the MSAH it is possible to support the shaft in the extension of handle (MSHD). It is mandatory for the usage of shafts > 130mm.			MSAH1

**Note** Items above with (-) in the Product Code column are available on special request.



### SWITCHES - OT MINI SWITCH DISCONNECTORS - BASE AND DIN RAIL MOUNTING

Function:

- ABB's switch-disconnector range meets disconnect and isolation requirements more effectively than ever, maximising the benefits and optimising your use of assets

Application:

- On or off load isolation



#### FRONT OPERATED SWITCH-DISCONNECTORS - INCLUDES DIRECT MOUNT HANDLE UP TO OT125

Product Code	Supplier Code	Type	Current Rating Ith (Open) A
D0020922	1SCA104811R1001	OT16F3	16
D0020923	1SCA104857R1001	OT25F3	25
D0020924	1SCA104902R1001	OT40F3	40
D0020925	1SCA105332R1001	OT63F3	63
D0020926	1SCA105798R1001	OT80F3	80
D0020927	1SCA105004R1001	OT100F3	100
D0020928	1SCA105033R1001	OT125F3	125



#### ACCESSORIES FOR OT MINI SWITCH-DISCONNECTORS, BASE AND DIN RAIL MOUNTING

- Fourth poles - for converting OT switches to 4 pole
- Mountable on the side of the switch

Product Code	Supplier Code	Type	Function	Suitable for Switches
D0005624	1SCA105001R1001	OTPS40FPN1	Simultaneous with the main contacts	OT16 - OT40F
D0005625	1SCA105000R1001	OTPS40FPN2		OT63 - OT80F
D0005626	1SCA105461R1001	OTPS80FP		OT100 - OT125F
D0005623	1SCA105099R1001	OTPS125FP		



#### CONVERSION KITS FOR FRONT OPERATED SWITCH COMBINATIONS

- 6 pole switches
- Parallel attachment for connecting two 3 pole switches to switch simultaneously

Product Code	Supplier Code	Type	Function	Suitable for Switches
-	1SCA022865R4800	OWP6D40	Simultaneous with the main contacts	OT16 - OT40F
D0019985	1SCA022865R5010	OWP6D80		OT63 - OT80F
-	1SCA022865R5100	OWP6D125		OT100 - OT125F

**Note** Items above with (-) in the Product Code column are available on special request.

## SWITCHES

### ABB



#### HANDLES

- Mounted directly to the switch, no shaft needed

Product Code	Supplier Code	Type	Suitable for Switches	Colour	Handle Length (mm)	Padlockable
-	1SCA109089R1001	OHBS2	OT63 - OT1 25F3/F4	Black	40	Yes
-	1SCA108665R1001	OHBS9	OT40 - 125		72	



#### SHAFTS FOR SELECTOR TYPE HANDLES

Product Code	Supplier Code	Type	Suitable for Switches	Shaft Size (mm)	Shaft Length (mm)
D0005630	1SCA101655R1001	OXS6X130	OT16 - OT125F	6	130
D0003641	1SCA101660R1001	OXS6X250			250
D0003642	1SCA101661R1001	OXS6X330			330



#### SELECTOR TYPE HANDLES, DOOR MOUNTED, INDICATION I-O AND ON-OFF

- No shaft 22.5mm hole
- Padlockable with 3 padlocks in OFF position
- Interlock in On position
- Protection rating: IP65

Product Code	Supplier Code	Type	Suitable for Switches	Colour	Padlockable
-	1SCA105231R1001	OHBS2PJ	OT16 - OT40	Black/red	Yes
-	1SCA105322R1001	OHY2SPJ		Yellow/red	
-	1SCA105323R1001	OHBS2RJ	OT16 - OT125	Black/red	
-	1SCA105323R1001	OHY2SRJ		Yellow/red	
D0003639	1SCA105213RL001	OHBS2AJ		Black/red	

**Note** Items above with (-) in the Product Code column are available on special request.



### FRONT OPERATED SWITCH-DISCONNECTORS

- Shaft and handles included as standard



Product Code	Supplier Code	Current Rating Ith (open) A	Type	Rated Operational Current
				AC21A/ AC22A/ AC23A1000V [A/A/A]
D0005610	1CSA135139R1001	200	OT160G03P	160
D0005611	1SCA022712R0800	200	OT200E03P	200
D0005612	1SCA022710R0100	250	OT250E03P	250
D0019869	1SCA022718R8510	315	OT315E03P	315
D0019854	1SCA022718R8780	400	OT400E03P	400
-	1SCA022718R8940	630	OT630E03P	630
-	1SCA022718R9410	800	OT800E03P	800
-	1SCA022860R5930	1000	OT1000E03P	1000
-	1SCA022860R6230	1250	OT1250E03P	1250
-	1SCA022860R6580	1600	OT1600E03P	1600
-	1SCA108036R1001	2000	OT2000E03P	2000
-	1SCA104972R1001	2500	OT2500E03P	2500

### OT SWITCH-DISCONNECTORS, 3 POLE, BASE MOUNTING, WITH DIRECT MOUNTED HANDLE



Product Code	Supplier Code	Current Rating Ith (open) A	Type	Rated Operational Current
				AC21A/ AC22A/ AC23A1000V [A/A/A]
-	1SCA022763R4820	200	OT200E03K	200
-	1SCA022763R5040	250	OT250E03K	250
-	1SCA022763R5630	315	OT315E03K	315
-	1SCA022763R5390	400	OT400E03K	400
-	1SCA022779R4940	630	OT630E03K	630

**Note** Items above with (-) in the Product Code column are available on special request.

## SWITCHES

**ABB**



### FOURTH POLES SIMULTANEOUS FUNCTION WITH THE MAIN CONTACTS

- No shaft 22.5mm hole
- Padlockable with 3 padlocks in OFF position
- Interlock in On position
- Protection rating: IP65

Product code	Supplier code	Type	Function	Suitable for Switches
-	1SCA022735R9420	OTZ250E	Simultaneous with the main contacts	OT200 - OT250
D0019934	1SCA022749R1960	OTZ400E		OT315 - OT400
-	1SCA022807R5100	OTZ800E		OT630 - OT800
-	1SCA103765R1001	OTZ1250E		OT1000 - OT1250
-	1SCA100431R1001	OTZ1600E		OT1600
-	1SCA107931R1001	OTZ2500E		OT2000 - OT2500



### SHAFTS FOR PISTOL TYPE HANDLES

Product Code	Supplier Code	Type	Suitable for Switches	Shaft Size (mm)	Shaft Length (mm)
D0005628	1SCA022295R5600	EXP6X150	OT16 - OT250	6	150
D0003640	1SCA022042R6370	EXP6X290			290
D0005629	1SCA022042R6530	EXP6X360			360
-	1SCA022056R6030	EXP6X430			430
-	1SCA022325SR6710	EXP12X185	OT315 - 2500	12	185
-	1SCA022042R5990	EXP12X395			395
-	1SCA022042R6020	EXP12X465			465

**Note** Items above with (-) in the Product Code column are available on special request.



### FRONT OPERATED SWITCH-DISCONNECTORS

- Shafts and handles included as standard

Product Code	Supplier Code	Type	Suitable for Switches	Shaft Size (mm)	Shaft Length (mm)
Door Mount Handles - Pistol Type					
D0003638	1SCA02230R8770	OHB45J6	OT16F3 - OT125F3/ OWP6080 - OWP5D125	6	45
Door Mount Handles - Pistol Type. For Appropriate Shaft Size (OX_P_X_), IP65, Padlockable with 3 Padlocks in OFF Position, Interlock in ON Position					
D0005601	1SCA022360R9560	OHB65J6	OT160E - OT250E	6	65
D0006323	1SCA022361R0830	OHB95J12	OT315E - OT400E	12	95
D0006322	1SCA022381R1560	OHB125J12	OT630E - OT800E		125
-	1SCA115920R1001	OHB274J12	OT1000E - OT2500E		274



### OT MINI SWITCH-DISCONNECTORS, 3 POLE, DOOR MOUNTING

Product Code	Supplier Code	Type	Current Rating Ith (open) A
D0006039	1SCA104838R1001	OT17FT3	16
D0006040	1SCA104884R1001	OT25FT3	25
D0006041	1SCA104940R1001	OT40FT3	40
D0006337	1SCA105382R1001	OT63FT3	63
D0006043	1SCA105431R1001	OT80FT3	80
D0006037	1SCA105023R1001	OT100FT3	100
D0006340	1SCA105090R1001	OT125FT3	125



### ACCESSORIES FOR OT MINI SWITCH-DISCONNECTORS, DOOR MOUNTING

- Fourth poles - for converting OT switches to 4 pole
- Mountable on the side of the switch

Product Code	Supplier Code	Type	Function	Suitable for Switches
D0005624	1SCA104999R1001	OTPS40FDN1	Simultaneous with the main contacts	OT16 - OT40FT
D0005625	1SCA104998R1001	OTPS40FDN2		OT63 - OT80F
D0005626	1SCA105458R1001	OTPS80FD		OT100 - OT125FT
D0005623	1SCA105096R1001	OTPS125FD		



### BY-PASS SWITCH MECHANISM

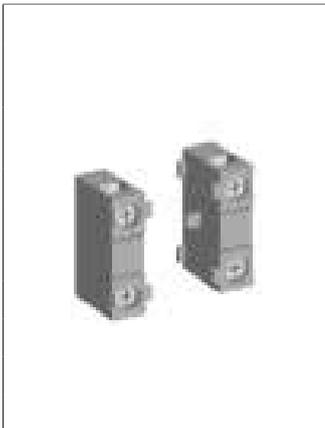
Product Code	Supplier Code	Description	Suitable for Switches
-	1SCA 022 387 R1620	OTZW17	OT16 - 125
-	1SCA 022 778 R7060	OTZW26	OT200 - 250

**Note** Items above with (-) in the Product Code column are available on special request.

# POWER PRODUCTS

## SWITCHES

**ABB**



### AUXILIARY CONTACT BLOCKS, IP20

Product Code	Supplier Code	Type	Description	Suitable for Switches
D0003634	1SCA022353R4890	OA3G01	1NC mountable on left side. Max. 2 pcs	OT160EV03 - OT2500E03
D0003634	1SCA022353R4890	OA1G01	1NC on left side.	OT16 - OT125
D0003635	1SCA022353R4970	OA1G10	1NO on left side.	OT16 - OT125
D0003636	1SCA022379R8100	OA2G11	1NO + 1NC mountable on sides. Max. 2 pcs	OT125F3C
-	1SCA022190R3000	OBEA10	Mounting with OEZNP1	OT160E
-	1SCA022190R3260	OBEA01		
-	1SCA022131R8690	OZ XK1	1 NO + 1 NC mounting on mechanism	OETL3150
-	1SCA022131R8850	OZ XK2		



### TERMINAL SHROUDS

- Snap on mounting grey plastic

Product Code	Supplier Code	Type	Number of Pieces	Suitable for Switches
Terminal Shrouds (3 Per Pack)				
-	1SCA022731R8150	OTS250G1L/3	3	OT160EV03 - OT250E03
-	1SCA022736R8840	OTS400G1L/3		OT315E03 - OT400E03
-	1SCA022776R7890	OTS800G1L/3		OT630E03 - OT800E03
-	1SCA022871R9510	OTS1600G1L/3		OT1000E03 - OT1600E03
-	1SCA107261R1001	OTS2500G1L/3		OT2000E03 - OT2500E03



### ENCLOSED SWITCH DISCONNECTOR - ONE20

Product Code	Supplier Code	Type	Number of Poles	Current Rating	
				AC22A 230V	AC23A 400V
Cover Colour: White. Handle Colour: White					
-	1SCA138456R1001	ONE20M2W	2	20	9.8
-	1SCA138457R1001	ONE20M3W	3		
-	1SCA138459R1001	ONE20M4W	4		
Cover Colour: Yellow. Handle Colour: Red					
-	1SCA135533R1001	ONE20M2Y	2	20	9.8
-	1SCA135536R1001	ONE20M3Y	3		
-	1SCA135540R1001	ONE20M4Y	4		

**Note** Items above with (-) in the Product Code column are available on special request.



### PSR - THE COMPACT RANGE

- PSR3-PSR105
- Rated operational voltage  $U_e$ , 208-600V AC
- Rated control supply voltage  $U_s$ , 100-240V AC



### MOTOR POWER

Product Code	Supplier Code	230V Pe kW	400V Pe kW	500V Pe kW	Type	Type IEC Max Rated Operational Current $I_e$ (A)
-	1SFA896103R7000	0.75	1.5	2.2	PSR3-600-70	3.9
-	1SFA896104R7000	1.5	3	4	PSR6-600-70	6.8
-	1SFA896105R7000	2.2	4	4	PSR9-600-70	9
D0003590	1SFA896106R7000	3	5.5	12	PSR12-600-70	12
D0003593	1SFA896107R7000	4	7.5	7.5	PSR16-600-70	16
D0003595	1SFA896108R7000	5.5	11	15	PSR25-600-70	25
D0003597	1SFA896109R7000	7.5	15	18.5	PSR30-600-70	30
-	1SFA896110R7000	7.5	18.5	22	PSR37-600-70	37
-	1SFA896111R7000	11	22	30	PSR45-600-70	45
-	1SFA896112R7000	15	30	37	PSR60-600-70	60
-	1SFA896113R7000	22	37	45	PSR72-600-70	72
-	1SFA896114R7000	22	45	55	PSR85-600-70	85
-	1SFA896115R7000	30	55	55	PSR105-600-70	105
-	1SFA897114R7000	90	160	200	PSR300-600-70	300
-	1SFA897115R7000	110	200	250	PSR370-600-70	370

**Note** Items above with (-) in the Product Code column are available on special request.

# POWER PRODUCTS

## COMPACT PILOT DEVICES



### COMPACT PILOT DEVICES SELECTOR SWITCHES



#### SELECTOR SWITCHES 2 POSITION (C-B) MOMENTARY SPRING RETURN FROM C TO B NON ILLUMINATED 22mm

Product Code	Supplier Code	Type	Description	Contact NO	Contact NC
D0003657	1SFA619200R1016	C2SS1-10B-10	Black selector switch 2 position (C-B)	1	-
-	1SFA619202R1046	C2SS1-10B-01		-	1
D0003658	1SFA619200R1076	C2SS1-10B-11		1	1
D0003659	1SFA619200R1026	C2SS1-10B-20		2	-



#### SELECTOR SWITCHES 3 POSITION (A-B-C) MAINTAINED NON ILLUMINATED 2mm

Product Code	Supplier Code	Type	Description	Contact NO	Contact NC
D0003660	1SFA619210R1026	C3SS1-10B-20	Black selector switch 3 position (A-B-C)	2	-
-	1SFA619210R1056	C3SS1-10B-02		-	2
-	1SFA619210R1076	C3SS1-10B-11		1	1



#### COMPACT PILOT DEVICES NON ILLUMINATED PUSH BUTTONS MOMENTARY COMPACT PUSH BUTTONS EXTENDED NON ILLUMINATED 22mm

Product Code	Supplier Code	Type	Description	Contact NO	Contact NC
D0003668	1SFA619100R1011	CP1-10R-10	Red compact push button non illuminated	1	-
D0003667	1SFA619100R1041	CP1-10R-01		-	1
-	1SFA619100R1071	CP1-10R-11		1	1
D0003665	1SFA619100R1012	CP1-10G-10	Green compact push button non illuminated	1	-
-	1SFA619100R1072	CP1-10G-11		1	1
-	1SFA619100R1022	CP1-10G-20		2	-
D0003669	1SFA619100R1013	CP1-10Y-10	Yellow compact push button non illuminated	1	-
D0003670	1SFA619100R1073	CP1-10Y-11		1	1
-	1SFA619100R1014	CP1-10L-10	Blue compact push button non illuminated	1	-
D0003666	1SFA619100R1074	CP1-10L-1		1	1
D0005633	1SFA619100R1076	CP1-10B-01	Black compact push button non illuminated	-	1
D0003664	1SFA619100R1046	CP1-10B-11		1	1

**Note** Items above with (-) in the Product Code column are available on special request.



### PILOT LIGHTS



Product Code	Supplier Code	Colour	Rated Current (mA)	Type
Rated Voltage 24 V AC/DC				
-	1SFA619403R5021	Red	16	CL2-502R
-	1SFA619403R5022	Green	16	CL2-502G
-	1SFA619403R5023	Yellow	16	CL2-502Y
-	1SFA619403R5024	Blue	16	CL2-502L
D0005634	1SFA619403R5028	Clear	16	CL2-502C
Rated Voltage 110-130 V AC				
D0003676	1SFA619403R5131	Red	15 - 17	CL2-513R
D0003675	1SFA619403R5132	Green	15 - 17	CL2-513G
D0003635	1SFA619403R5133	Yellow	15 - 17	CL2-513Y
Rated Voltage 110-130 V DC				
D0003678	1SFA619403R5151	Red	8 - 9	CL2-515R
D0003677	1SFA619403R5152	Green	8 - 9	CL2-515G
D0003679	1SFA619403R5153	Yellow	8 - 9	CL2-515Y
Rated Voltage 230 V AC				
D0003682	1SFA619403R5231	Red	17	CL2-523R
D0003680	1SFA619403R5232	Green	17	CL2-523G
D0003684	1SFA619403R5233	Yellow	17	CL2-523Y
D0003681	1SFA619403R5234	Blue	17	CL2-523L
D0003683	1SFA619403R5238	Clear	17	CL2-523C
Rated Voltage 380-415 V AC				
-	1SFA619403R5421	Red	15 - 17	CL2-524R
-	1SFA619403R5422	Green	15 - 17	CL2-524G
Rated Voltage 230 V AC with 60V Anti-inductive Voltage				
-	1SFA619403R6231	Red	17	CL2-623R
-	1SFA619403R6232	Green	17	CL2-623G
-	1SFA619403R6233	Yellow	17	CL2-623Y

### MODULAR PILOT DEVICES EMERGENCY STOP PUSH BUTTONS COMPACT EMERGENCY STOPS (CONTACTS ALL INCLUDED)

- IEC 60947-5-5 compliant emergency stops



Product Code	Supplier Code	Type	Description	Contact NO	Contact NC
D0003661	1SFA619500R1041	CE3T-10R-01	Compact 30mm emergency stop (twist release)	-	1
-	1SFA619500R1051	CE3T-10R-02		-	2
-	1SFA619552R1051	CE3K-10R-02	Compact 30mm emergency stop (key operated)	-	2
D0003662	1SFA619550R1041	CE4T-10R-01	Compact 40mm emergency stop push button twist	-	1
-	1SFA619550R1051	CE4T-10R-02		-	2
-	1SFA619551R1051	CE4P-10R-02	Compact 40mm emergency stop push button pull	-	2
-	1SFA619552R1051	CE4K1-10R-02	Compact 30mm emergency stop push button key op	-	2

**Note** Items above with (-) in the Product Code column are available on special request.



Please note: Subject to any applicable laws from time to time: (1) All the product images shown in this catalogue are for marketing purposes and may differ from the actual product. (2) All factual information in this catalogue was correct at the time of going to print and is subject to change without prior notice. Errors and Omissions Excepted. Voltex (Pty) Ltd and its Marketing Agency do not accept responsibility or liability for any incorrect listing of any merchandise or information. Voltex Terms & Conditions of Sale which can be found at [www.voltex.co.za](http://www.voltex.co.za) and the Disclaimer which is set out at the end of this catalogue apply.



### PRIMARY SWITCH MODE POWER SUPPLIES



#### CP-D RANGE

- The CP-D range of modular power supply units in MDRC design (modular DIN rail components) is ideally suited for installation in distribution panels. This range offers devices with output voltages of 12 V DC and 24 V DC at output currents of 0.42 A to 4.2 A.

Product Code	Supplier Code	Input Voltage (V)		Rated Output		Type
		AC	DC	Voltage	Current	
-	1SVR427041R1000	90 - 264	120 - 375	12VDC	0.83A	CP-D 12/0.83
-	1SVR427043R1200	90 - 264	120 - 375	12VDC	2.1A	CP-D 12/2.1
-	1SVR427041R0000	90 - 264	120 - 375	24VDC	0.42A	CP-D 24/0.42
-	1SVR427043R0100	90 - 264	120 - 375	24VDC	1.3A	CP-D 24/1.3
-	1SVR427044R0200	90 - 264	120 - 375	24VDC	2.5A	CP-D 24/2.5
-	1SVR427045R0400	90 - 264	120 - 375	24VDC	4.2A	CP-D 24/4.2



#### CP-E < 100W

- This range offers types with output voltages from 5 V DC to 48 V DC at output currents of 0.625 A to 20 A. The high thermal efficiency of up to 90%, corresponding to very low power and heat dissipation, allows operation without forced cooling.

Product Code	Supplier Code	Input Voltage (V)		Rated Output		Type
		AC	DC	Voltage	Current	
-	1SVR427033R3000	90 - 264	120 - 375	5VDC	3A	CP-E 5/3.0
-	1SVR427032R1000	85 - 264	90 - 375	12VDC	2.5A	CP-E 12/2.5
-	1SVR427035R1000	90 - 132; 180 - 264	210 - 375	12VDC	10A	CP-E 12/10.0
-	1SVR427030R0000	90 - 264	120 - 375	24VDC	0.75A	CP-E 24/0.75
-	1SVR427031R0000	85 - 264	90 - 375	24VDC	1.25A	CP-E 24/1.25
-	1SVR427032R0000	85 - 264	90 - 375	24VDC	2.5A	CP-E 24/2.5



#### CP-E > 100W

Product Code	Supplier Code	Input Voltage (V)		Rated Output		Type
		AC	DC	Voltage	Current	
-	1SVR427034R0000	90 - 132; 180 - 264	210 - 375	24VDC	5A	CP-E 24/5.0
-	1SVR427035R0000	90 - 132; 180 - 264	210 - 375	24VDC	10A	CP-E 24/10.0
-	1SVR427036R0000	90 - 264	120 - 375	24VDC	20A	CP-E 24/20.0
-	1SVR427030R2000	85 - 264	90 - 375	48VDC	0.625A	CP-E 48/0.62
-	1SVR427031R2000	85 - 264	90 - 375	48VDC	1.25A	CP-E 48/1.25
-	1SVR427034R2000	90 - 132; 180 - 264	210 - 375	48VDC	5A	CP-E 48/5.0
-	1SVR427035R2000	90 - 264	120 - 375	48VDC	10A	CP-E 48/10.0

**Note** Items above with (-) in the Product Code column are available on special request.



### CP-T RANGE

- The CP-T range of three-phase power supply units are designed for an ambient temperature of up to 70°C and efficiency of up to 92%.

Product Code	Supplier Code	Input Voltage (V)		Rated Output		Type
		AC	DC	Voltage	Current	
-	1SVR427054R0000	340 - 575	480 - 820	24VDC	5A	CP-T 24/5.0
-	1SVR427055R0000	340 - 575	480 - 820	24VDC	10A	CP-T 24/10.0
-	1SVR427056R0000	340 - 575	480 - 820	24VDC	20A	CP-T 24/20.0
-	1SVR427057R0000	340 - 575	480 - 820	24VDC	40A	CP-T 24/40.0
-	1SVR427054R2000	340 - 575	480 - 820	48VDC	5A	CP-T 48/5.0
-	1SVR427055R2000	340 - 575	480 - 820	48VDC	10A	CP-T 48/10.0
-	1SVR427056R2000	340 - 575	480 - 820	48VDC	20A	CP-T 48/20.0



### CP-C.1 RANGE

- The CP-C.1 power supplies are ABB's high-performance and most advanced range. With excellent efficiency, high reliability and innovative functionality it is prepared for the most demanding industrial applications. These power supplies have up to 50% integrated power reserve and operate at an efficiency of up to 94%. They are equipped with overheat protection and active power factor correction.

Product Code	Supplier Code	Input Voltage (V)		Rated Output		Type
		AC	DC	Voltage	Current	
-	1SVR360563R1001	100 - 240	90 - 300	24V DC	5A	CP-C.1 24/5.0
-	1SVR360663R1001	100 - 240	90 - 300	24V DC	10A	CP-C.1 24/10.0
-	1SVR360763R1001	100 - 240	90 - 300	24V DC	20A	CP-C.1 24/20.0

**Note** Items above with (-) in the Product Code column are available on special request.

## SITELITES/AVIATION WARNING BEACONS



### S2SL/S1ES/G-R SINGLE SITELITE BEACON

**Product Code: L0000110**

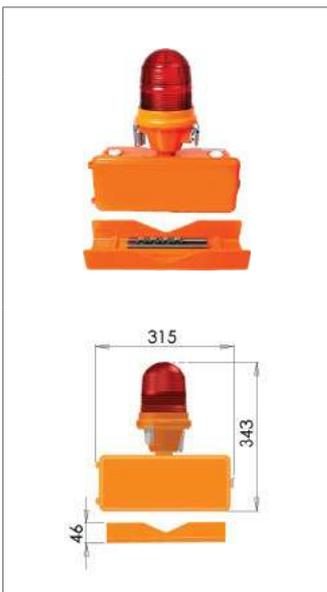
- Beacon is supplied with an ES lampholder and 20mm cable gland entry as standard
- Max 100W lamp



### S2SL/S1ES/G-R32 SINGLE SITELITE BEACON

**Product Code: L0002316**

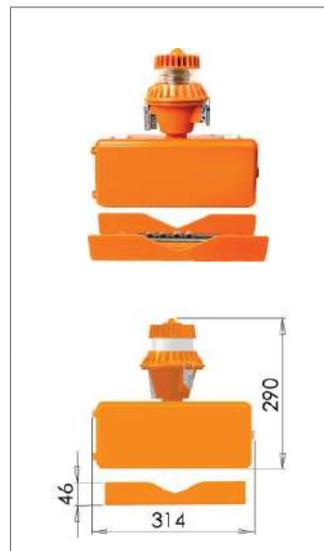
- Beacon is a complete 32CD Navled lamp unit
- This is a complete 32 candela standard unit
- Available in various voltages



### S2SL/S1ES/BS-COM SINGLE SITELITE BEACON

**Product Code: L0000108**

- Beacon is supplied complete with a die-cast aluminium enclosure and universal pole clamp
- Max 100W lamp
- For use with Annunciator Box



### S2SL/S1ES/BS-COM32 CD SINGLE SITELITE BEACON

**Product Code: L0002317**

- Beacon is supplied complete with a die-cast aluminium enclosure and universal pole clamp
- This is a complete 32 candela standard unit
- Available in various voltages

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### S2SL/S1ES/U-R SINGLE SITELITE BEACON

**Product Code: L0000111**

- Beacon is supplied complete with a 20mm CCG cable box and universal pole clamp
- Max 100W lamp
- For use with Annunciator Box



### S2SL/S1ES/U-R32 CD SINGLE SITELITE BEACON

**Product Code: L0002318**

- Beacon is supplied complete with a 20mm CCG cable box and universal pole clamp
- This is a complete 32 candela standard unit
- Available in various voltages



### S2SL/S2ES/BS-COM DOUBLE SITELITE BEACON

**Product Code: L0000113**

- Beacon is supplied with a die-cast aluminium enclosure and universal pole clamp
- Max 100W lamp
- For use with Annunciator Box

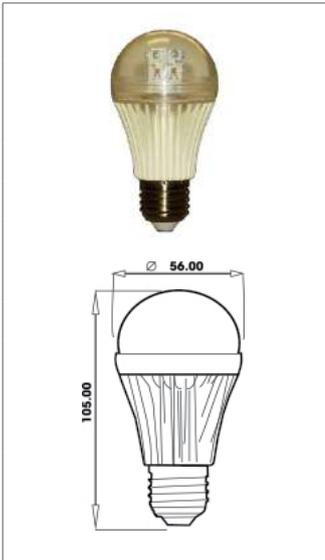


### S2SL/S2ES/BS-COM32 CD DOUBLE SITELITE BEACON

**Product Code: L0002519**

- Beacon is supplied with a die-cast aluminium enclosure and universal pole clamp
- This is a complete 32 candela standard unit
- Available in various voltages

## SITELITES/AVIATION WARNING BEACONS



### S2SL/NAV/-R NAVLED

- The S2SL/NAV/-R NAVLED - Navigational LED E27

Product Code	Voltage (V)
L0000104	12
L0000105	24
L0017640	48
L0017641	230
Characteristics	Specifications
Supply Input	220 VAC or 48VDC < 10W
LED Wavelength	625nm
Expected Lamp Life	>15 000 hour with <25% degradation
Construction Material	Acrylic lens and coolplast base



### S2SL/NAV32/-R NAVLED

- This unit is a retrofit and is interchangeable with our existing models in order to upgrade it from low to medium intensity
- Available in various voltages
- Light emitted is rated at 32 candela
- This unit cannot be upgraded with the old annunciator based units.

Product Code	Voltage (V)
L0002328	12
L0002329	24
L0002311	48
L0002312	230



### CONTROL BOX

**Product Code: L0002518**

- Control box manufactured from LM6 die-cast aluminium
- Comes complete with isolator, daylite sensor and universal pole clamp



### ANNUNCIATOR BOX

**Product Code: L0000099**

- The Annunciator Box uses a photo diode to monitor operation of the main lamp
- In the event of the lamp falling the Annunciator will switch over to the second sitelite
- The fault light will come on and a set of alarm contacts in the box will close
- The faulty lamp must be replaced and the reset button pushed to cancel the alarm condition
- The day/night switch circuit is also built into the box with a convenient remote mounting sensor
- All voltages are available



### S2SL/DAYLITE SENSOR

**Product Code: L0000101**

- The S2SL/DAY is an UV stabilised daylite sensor with IP54 protection
- Switching level ON  $\pm$  -60 lux
- Switching level OFF  $\pm$  -90 lux
- Switching delay 20-30 sec
- SABS 1777
- Voltage: 48V
- Model: S2SL/DAY

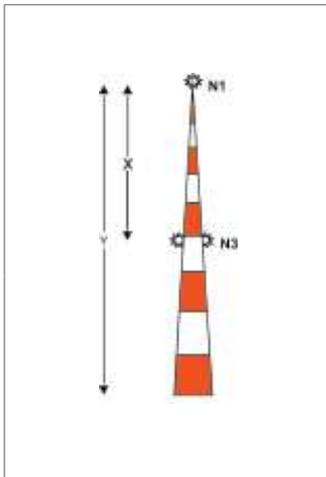
Also available in:

- 12V
- 24V
- 110V
- Built to order
- Minimum order quantity: 10

## INSTALLATION OF LIGHTS ON OBSTACLES

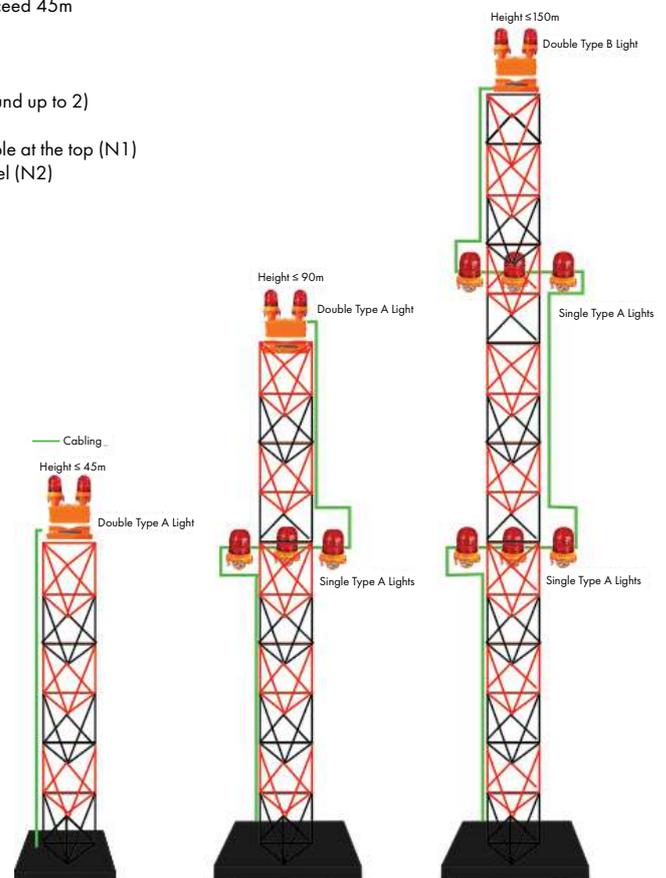
### CABLING

- The single light fitting with control box have cable entry and exit glands, permitting the use of a single cable from the bottom of the tower to the lights.
- This eliminates the need for the use of a junction box and separate cables from it to each of the lights on the obstacle.
- For optimal performance, it is recommended that cable wiring be done in parallel

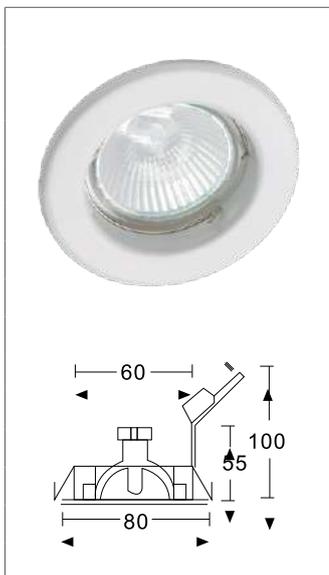


### GUIDELINE FOR SPACING LIGHTS ON OBSTACLES:

- Light Spacing between stages (X) not to exceed 45m  
Number of stages (N) =  $\frac{Y \text{ (Meters)}}{45}$
- Example Y (Total height) = 60m  
Number of stages  $\frac{N}{45} = \frac{60}{45} = 1.33$  (thus round up to 2)
- The number of stages required is 2, i.e double at the top (N1) and 2,3 or 4 singles at the intermediate level (N2)



## STEEL DOWNLIGHTS



### STRAIGHT S62

- Transformer required
- Lamp excluded

Product Code	J0015470	J0015460	J0015459	J0015465
Colour	White	Chrome	Brass	Satin chrome
Application/Ideal Use	Indoor			
Features/Benefits				
Watts (W)	1 x 50			
Voltage (V)	12			
Protection Rating (IP)	20			
Cut Out (mm)	60			
Clearance Height (mm)	68			
Dimmable	No			
Lamp	1 x MR16, Conversion to GU10 available, MR16 LED			
Class	III			



### TILT S62/T

- Transformer required
- Lamp excluded

Product Code	J0015469	J0015467	J0015466	J0015468
Colour	White	Chrome	Brass	Satin Chrome
Application/Ideal Use	Indoor			
Features/Benefits				
Watts (W)	1 x 50			
Voltage (V)	12			
Protection Rating (IP)	20			
Cut Out (mm)	80			
Clearance Height (mm)	65			
Dimmable	No			
Tilt	30°			
Lamp	1 x MR16, Conversion to GU10 available, MR16 LED			
Class	III			

## STEEL DOWNLIGHTS



### EYEBALL S62/EB

- Transformer required
- Lamp excluded



Product Code	J0015431	J0015462	J0015461	J0015463
Colour	White	Chrome	Brass	Satin Chrome
Application/Ideal Use	Indoor			
Features/Benefits				
Watts (W)	1 x 50			
Voltage (V)	12			
Protection Rating (IP)	20			
Cut Out (mm)	100			
Clearance Height (mm)	65			
Dimmable	No			
Tilt	30°			
Rotate	355°			
Lamp	1 x MR16, Conversion to GU10 available, MR16 LED			
Class	III			

## ALUMINIUM DOWNLIGHTS

### BEVELLED RIM S63/BV

- Transformer required
- Lamp excluded



Product Code	J0000089	J0015476	J0015475	J0000088
Colour	White	Chrome	Brass	Satin chrome
Application/Ideal Use	Indoor			
Features/Benefits				
Watts (W)	1 x 50			
Voltage (V)	12			
Protection Rating (IP)	20			
Cut Out (mm)	62			
Clearance Height (mm)	65			
Dimmable	No			
Lamp	1 x MR16, Conversion to GU10 available, MR16 LED			
Class	III			

## ALUMINIUM DOWNLIGHTS



### BEVELLED RIM TILT S63/BVT

- Transformer required
- Lamp excluded

Product Code	J0000093	J0015477	J0000090	J0000092
Colour	White	Chrome	Brass	Satin Chrome
Application/Ideal Use	Indoor			
Features/Benefits				
Watts (W)	1 x 50			
Voltage (V)	12			
Protection Rating (IP)	20			
Cut Out (mm)	75			
Clearance Height (mm)	62			
Dimmable	No			
Tilt	30°			
Lamp	1 x MR16, Conversion to GU10 available, MR16 LED			
Class	III			



### TWISTLOCK STRAIGHT S63

- Transformer required
- Lamp excluded

Product Code	J0000099	J0015524	J0015474	J0000095
Colour	White	Chrome	Brass	Satin Chrome
Application/Ideal Use	Indoor			
Features/Benefits				
Watts (W)	1 x 50			
Voltage (V)	12			
Protection Rating (IP)	20			
Cut Out (mm)	70			
Clearance Height (mm)	63			
Dimmable	No			
Tilt	30°			
Lamp	1 x MR16, Conversion to GU10 available, MR16 LED			
Class	III			

## ALUMINIUM DOWNLIGHTS



### TWISTLOCK TILT S63/T

- Transformer required
- Lamp excluded

Product Code	J0000098	J0015478	J0000096	J0000097
Colour	White	Chrome	Brass	Satin Chrome
Application/Ideal Use	Indoor			
Features/Benefits				
Watts (W)	1 x 50			
Voltage (V)	12			
Protection Rating (IP)	20			
Cut Out (mm)	85			
Clearance Height (mm)	60			
Dimmable	No			
Lamp	1 x MR16, Conversion to GU10 available, MR16 LED			
Class	III			

## STEEL DOWNLIGHTS



### STRAIGHT S65

- Lamp excluded

Product Code	J0000104	J0015482	J0015481	J0000103
Colour	White	Chrome	Brass	Satin chrome
Application/Ideal Use	Indoor			
Features/Benefits				
Watts (W)	1 x 50			
Voltage (V)	230			
Protection Rating (IP)	20			
Cut Out (mm)	60			
Clearance Height (mm)	74			
Dimmable	No			
Lamp	1 x Par 16 halogen			
Class	I			

# LIGHTING PRODUCTS

## STEEL DOWNLIGHTS



### TILT STEEL S65T

- Lamp excluded

Product Code	J0015433	J0015498	J0015497	J0015500
Colour	White	Chrome	Brass	Satin chrome
Application/Ideal Use	Indoor			
Features/Benefits				
Watts (W)	1 x 50			
Voltage (V)	230			
Protection Rating (IP)	20			
Cut Out (mm)	70			
Clearance Height (mm)	74			
Dimmable	No			
Lamp	1 x Par 16 halogen			
Class	I			



### ELECTRONIC TRANSFORMERS

Product Code	L0001338
Model	ET60
Features/Benefits	
Voltage (V)	240/50
Secondary Voltage (V)	11.5V MAX 5.3A AC
Rated Current (primary)	0.26A
Rated Load (W)	20 - 60
Short Circuit Protection	Auto reset on start
Thermal Protection	Single short
Surge Protection	1KVP
Input Terminal (mm)	2.5
Output Terminal (mm)	2.5
Power Factor (PF)	0.99
Dimmable	To be used with a trailing edge dimmer
Dimensions (L x W x H) (mm)	91 x 41 x 20

## GU10 LAMP HOLDERS



### GU10 LAMP HOLDERS

Product Code	J0003564	J0016972
Model	LH1	LH2
Application/Ideal Use	Indoor	
Features/Benefits		
Cable Length (cm)	20	12
Terminal Box	Yes	Yes
Bracket	No	Yes
Earth Wire	Yes	Yes

## INDOOR GLASS FITTINGS



### ALABASTER CEILING LIGHT AB1

- Lamp excluded

Product Code	J0000083	J0008172	J0000082
Clip Colour	White	Brass	Satin Chrome
Application/Ideal Use	Indoor		
Features/Benefits			
Watts (W)	1 x 60		
Voltage (V)	240		
Protection Rating (IP)	20		
Diameter (mm)	300		
Depth (mm)	80		
Lamp	1 x E27 CFL/LED		
Class	I		



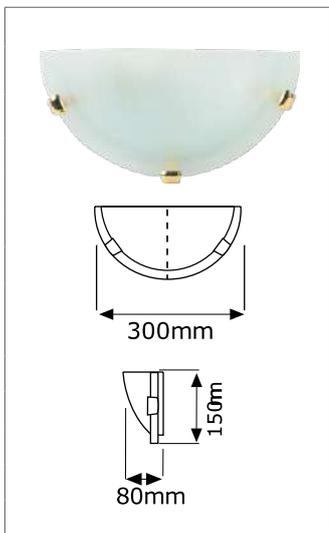
### ALABASTER CEILING LIGHT AB2

- Lamp excluded

Product Code	J0015866	J0015865	J0000084
Clip Colour	White	Brass	Satin Chrome
Application/Ideal Use	Indoor		
Features/Benefits			
Watts (W)	2 x 60		
Voltage (V)	240		
Protection Rating (IP)	20		
Diameter (mm)	400		
Depth (mm)	100		
Lamp	2 x E27 CFL/LED		
Class	I		

# LIGHTING PRODUCTS

## INDOOR GLASS FITTINGS



### ALABASTER WALL LIGHT ABW

- Lamp excluded

Product Code	J0015130	J0015117	J0003067
Clip Colour	White	Brass	Satin Chrome
Application/Ideal Use	Indoor		
Features/Benefits			
Watts (W)	1 x 60		
Voltage (V)	240		
Protection Rating (IP)	20		
Diameter (mm)	300		
Depth (mm)	80		
Height (mm)	150		
Lamp	1 x E27 CFL/LED		
Class	I		



### GLASS CEILING LIGHT LS1

- Lamp excluded

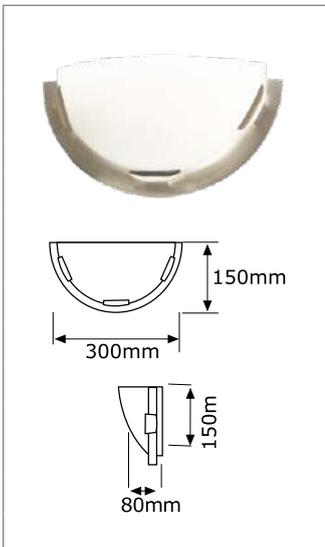
Product Code	J0015133
Border Colour	Satin Chrome
Application/Ideal Use	Indoor
Features/Benefits	
Watts (W)	1 x 60
Voltage (V)	240
Protection Rating (IP)	20
Diameter (mm)	300
Depth (mm)	80
Height (mm)	150
Lamp	1 x E27 CFL/LED
Class	I



### GLASS CEILING LIGHT LS2

- Lamp excluded

Product Code	J0016951
Border Colour	Satin Chrome
Application/Ideal Use	Indoor
Features/Benefits	
Watts (W)	2 x 60
Voltage (V)	240
Protection Rating (IP)	20
Diameter (mm)	400
Depth (mm)	100
Lamp	2 x E27 CFL/LED
Class	I



### WALL LIGHT LS1

- Lamp excluded

<b>Product Code</b>	<b>J0015148</b>
Border Colour	Satin Chrome
Application/Ideal Use	Indoor
Features/Benefits	
Watts (W)	1 x 60
Voltage (V)	240
Protection Rating (IP)	20
Diameter (mm)	300
Depth (mm)	80
Height (mm)	150
Lamp	1 x E27 CFL/LED
Class	I



### GLASS CEILING LIGHT JD1

- Lamp excluded

<b>Product Code</b>	<b>J0016030</b>
Border Colour	Satin Chrome
Application/Ideal Use	Indoor
Features/Benefits	
Watts (W)	1 x 60
Voltage (V)	240
Protection Rating (IP)	44
Diameter (mm)	300
Depth (mm)	100
Lamp	1 x E27 CFL/LED
Class	I

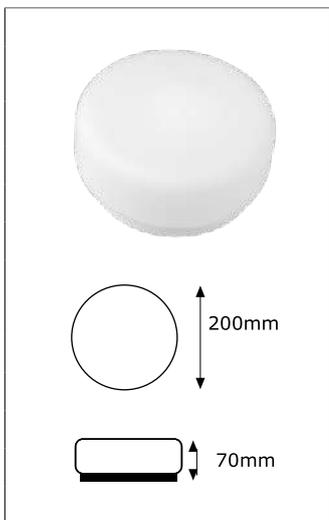


### GLASS CEILING LIGHT JD2

- Lamp excluded

<b>Product Code</b>	<b>J0016027</b>
Border Colour	Satin Chrome
Application/Ideal Use	Indoor
Features/Benefits	
Watts (W)	2 x 60
Voltage (V)	240
Protection Rating (IP)	44
Diameter (mm)	400
Depth (mm)	140
Lamp	2 x E27 CFL/LED
Class	I

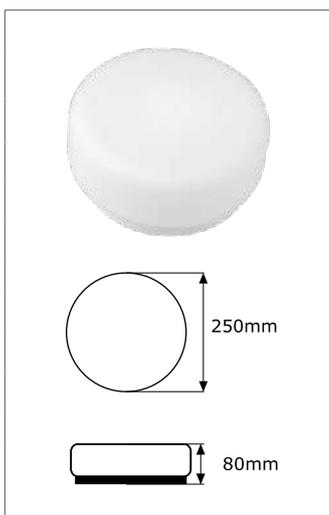
## INDOOR GLASS FITTINGS



### CHEESE 200mm ROUND CHS200

- Lamp excluded

Product Code	J0016108
Colour	White
Application/Ideal Use	Indoor
Features/Benefits	
Watts (W)	1 x 60
Voltage (V)	240
Protection Rating (IP)	20
Diameter (mm)	200
Depth (mm)	70
Lamp	1 x E27 CFL/LED
Class	I



### CHEESE 250mm ROUND CHS250

- Lamp excluded

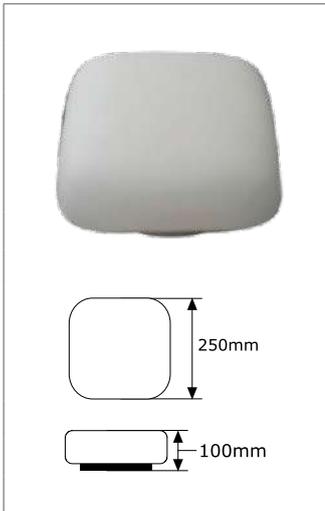
Product Code	J0016109
Colour	White
Application/Ideal Use	Indoor
Features/Benefits	
Watts (W)	1 x 60
Voltage (V)	240
Protection Rating (IP)	20
Diameter (mm)	250
Depth (mm)	80
Lamp	1 x E27 CFL/LED
Class	I



### CHEESE 200mm SQUARE CHS200

- Lamp excluded

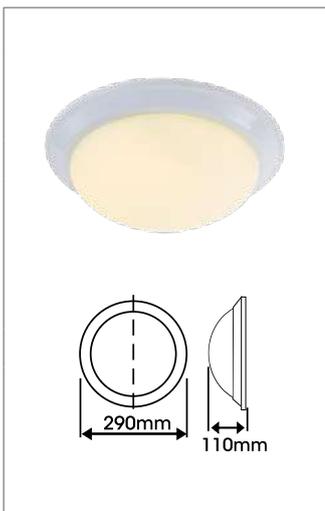
Product Code	J0016107
Colour	White
Application/Ideal Use	Indoor
Features/Benefits	
Watts (W)	1 x 60
Voltage (V)	240
Protection Rating (IP)	20
Diameter (mm)	200
Depth (mm)	100
Lamp	1 x E27 CFL/LED
Class	I



### CHEESE 250mm SQUARE CHS250

- Lamp excluded

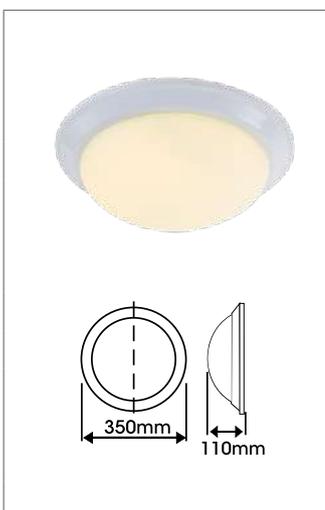
Product Code	J0016066
Colour	White
Application/Ideal Use	Indoor
Features/Benefits	
Watts (W)	1 x 60
Voltage (V)	240
Protection Rating (IP)	20
Diameter (mm)	250
Depth (mm)	100
Lamp	1 x E27 CFL/LED
Class	I



### SATURN 290mm CURVED YH0809

- Lamp excluded

Product Code	J0003739
Colour	White
Application/Ideal Use	Indoor
Features/Benefits	
Watts (W)	1 x 60
Voltage (V)	240
Protection Rating (IP)	20
Diameter (mm)	290
Depth (mm)	110
Lamp	1 x E27 CFL/LED
Class	I



### SATURN 350mm CURVED YH0811

- Lamp excluded

Product Code	J0003738
Colour	White
Application/Ideal Use	Indoor
Features/Benefits	
Watts (W)	2 x 60
Voltage (V)	240
Protection Rating (IP)	20
Diameter (mm)	350
Depth (mm)	110
Lamp	2 x E27 CFL/LED
Class	I

## INDOOR GLASS FITTINGS



### 180mm ROUND YH2107

- Lamp excluded

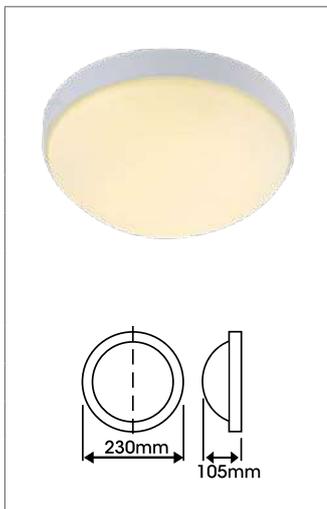
Product Code	J0003740
Colour	White
Application/Ideal Use	Indoor
Features/Benefits	
Watts (W)	1 x 60
Voltage (V)	240
Protection Rating (IP)	20
Diameter (mm)	180
Depth (mm)	68
Lamp	1 x E27 CFL/LED
Class	I



### 260mm ROUND YH2109

- Lamp excluded

Product Code	J0003741
Colour	White
Application/Ideal Use	Indoor
Features/Benefits	
Watts (W)	2 x 60
Voltage (V)	240
Protection Rating (IP)	20
Diameter (mm)	260
Depth (mm)	75
Lamp	2 x E27 CFL/LED
Class	I



### 230mm ROUND YH0909

- Lamp excluded

Product Code	J0003745
Colour	White
Application/Ideal Use	Indoor
Features/Benefits	
Watts (W)	1 x 60
Voltage (V)	240
Protection Rating (IP)	20
Diameter (mm)	230
Depth (mm)	105
Lamp	1 x E27 CFL/LED
Class	I



### 290mm ROUND YH0911

- Lamp excluded

<b>Product Code</b>	<b>J0003744</b>
Colour	White
Application/Ideal Use	Indoor
Features/Benefits	
Watts (W)	2 x 60
Voltage (V)	240
Protection Rating (IP)	20
Diameter (mm)	290
Depth (mm)	105
Lamp	2 x E27 CFL/LED
Class	I



### SATURN SPOT SSR1

- Lamp excluded

<b>Product Code</b>	<b>J0015705</b>
Colour	White
Application/Ideal Use	Indoor
Features/Benefits	
Watts (W)	1 x 40
Voltage (V)	240
Protection Rating (IP)	20
Dimensions (mm)	130 x 85
Base (mm)	84
Lamp	1 x R50 E14 CFL/LED
Class	I

# LIGHTING PRODUCTS

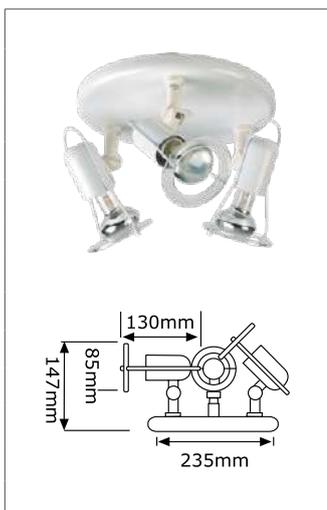
## SATURN SPOTLIGHTS



### SATURN SPOT SSR2

- Lamp excluded

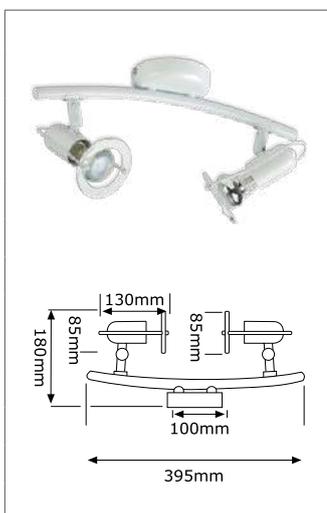
<b>Product Code</b>	<b>J0015706</b>
Colour	White
Application/Ideal Use	Indoor
Features/Benefits	
Watts (W)	2 x 40
Voltage (V)	240
Protection Rating (IP)	20
Dimensions (mm)	130 x 85
Base (mm)	192
Lamp	2 x R50 E14 CFL/LED
Class	I



### SATURN SPOT SSR3

- Lamp excluded

<b>Product Code</b>	<b>J0015707</b>
Colour	White
Application/Ideal Use	Indoor
Features/Benefits	
Watts (W)	3 x 40
Voltage (V)	240
Protection Rating (IP)	20
Dimensions (mm)	130 x 85
Base (mm)	235
Lamp	3 x R50 E14 CFL/LED
Class	I



### SATURN SPOT SSBOW2

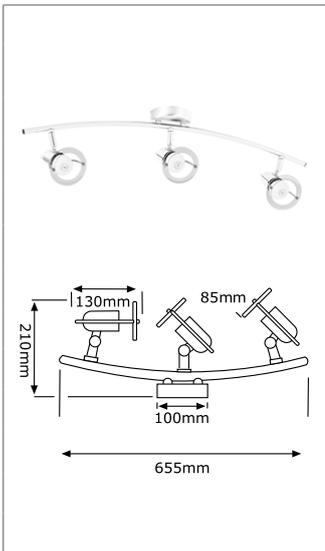
- Lamp excluded

<b>Product Code</b>	<b>J0015700</b>
Colour	White
Application/Ideal Use	Indoor
Features/Benefits	
Watts (W)	2 x 40
Voltage (V)	240
Protection Rating (IP)	20
Dimensions (mm)	130 x 85
Base (mm)	100
Lamp	2 x R50 E14 CFL/LED
Class	I



### SATURN SPOT SSBOW3

- Lamp excluded

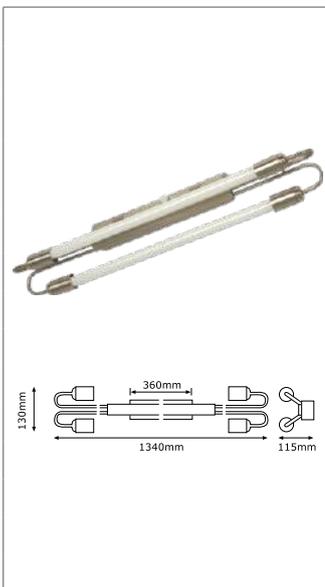


Product Code	J0015701
Colour	White
Application/Ideal Use	Indoor
Features/Benefits	
Watts (W)	3 x 40
Voltage (V)	240
Protection Rating (IP)	20
Dimensions (mm)	130 x 85
Base (mm)	100
Lamp	3 x R50 E14 CFL/LED
Class	I

## INDOOR FLUORESCENTS

### DECORATIVE FLUORESCENTS

- Tube excluded



Product Code	J0015806 (KL218)	J0000087 (KL236)
Colour	Satin Chrome	
Application/Ideal Use	Indoor	
Features/Benefits		
Watts (W)	2 x 18	2 x 36
Voltage (V)	240	
Protection Rating (IP)	20	
Length (mm)	760	1340
Height (mm)	115	
Width (mm)	130	
Ballast	Switch start	
Lamp	2 x T8 18W	2 x T8 36W
Class	I	

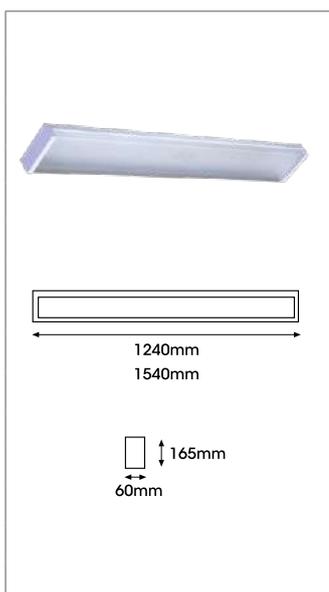
## INDOOR FLUORESCENTS



### DECORATIVE FLUORESCENTS

- Tube excluded

Product Code	J0016980	J0016981
Colour	White	
Application/Ideal Use	Indoor	
Features/Benefits		
Watts (W)	2 x 28	2 x 35
Voltage (V)	240	
Protection Rating (IP)	20	
Length (mm)	1190	1490
Height (mm)	60	
Width (mm)	165	
Ballast	Electronic	
Lamp	2 x T5 28W	2 x T5 35W
Class	I	



### DECORATIVE FLUORESCENTS

- Tube excluded

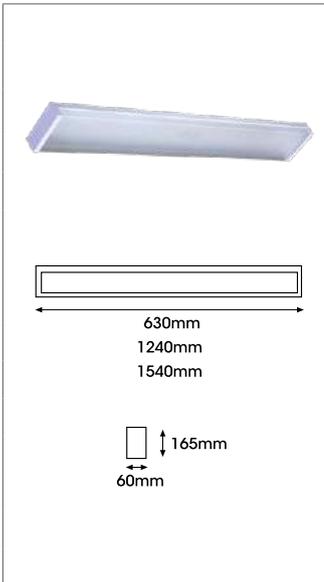
Product Code	J0016988	J0016989
Colour	White	
Application/Ideal Use	Indoor	
Features/Benefits		
Watts (W)	2 x 36	2 x 58
Voltage (V)	240	
Protection Rating (IP)	20	
Length (mm)	1240	1540
Height (mm)	60	
Width (mm)	165	
Ballast	Switch start	
Lamp	2 x T8 36W	2 x T8 58W
Class	I	



### DECORATIVE FLUORESCENTS

- Tube excluded

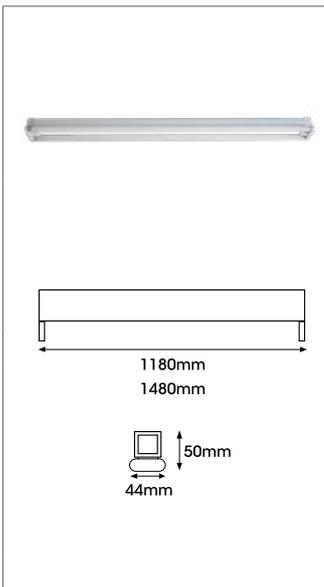
Product Code	J0014564	J0014565	J0014566
Colour	White		
Application/Ideal Use	Indoor		
Features/Benefits			
Watts (W)	2 x 18	2 x 36	2 x 58
Voltage (V)	240		
Protection Rating (IP)	20		
Length (mm)	630	1240	1540
Height (mm)	60		
Width (mm)	165		
Ballast	Electronic		
Lamp	2 x T8 18W	2 x T8 36W	2 x T8 58W
Class	I		



### OPEN CHANNEL FLUORESCENTS

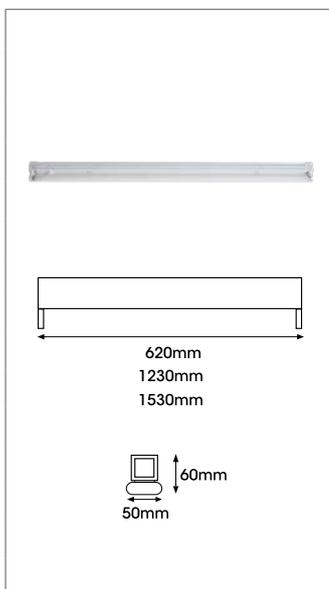
- Tube excluded

Product Code	J0024160	J0024165
Colour	White	
Application/Ideal Use	Indoor	
Features/Benefits		
Watts (W)	2 x 28	2 x 35
Voltage (V)	240	
Protection Rating (IP)	20	
Length (mm)	1180	1480
Height (mm)	50	
Width (mm)	44	
Ballast	Electronic	
Lamp	2 x T5 28W	2 x T5 35W
Class	I	



# LIGHTING PRODUCTS

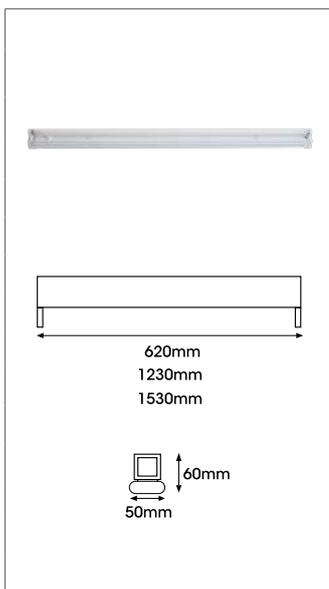
## INDOOR FLUORESCENTS



### OPEN CHANNEL FLUORESCENTS

- Tube excluded

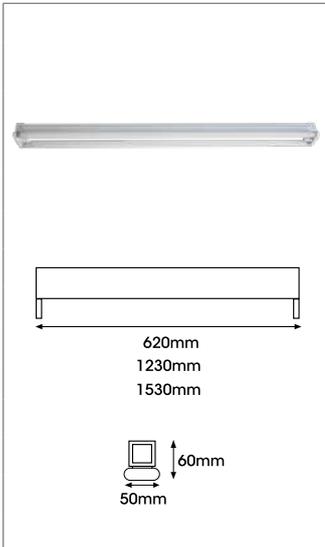
Product Code	J0016982
Colour	White
Application/Ideal Use	Indoor
Features/Benefits	
Watts (W)	1 x 18
Voltage (V)	240
Protection Rating (IP)	20
Length (mm)	620
Height (mm)	60
Width (mm)	50
Ballast	Switch start
Lamp	1 x T8 18W
Class	I



### OPEN CHANNEL FLUORESCENTS

- Tube excluded

Product Code	J0014211	J0014206	J0014209
Colour	White		
Application/Ideal Use	Indoor		
Features/Benefits			
Watts (W)	1 x 18	1 x 36	1 x 58
Voltage (V)	240		
Protection Rating (IP)	20		
Length (mm)	620	1230	1530
Height (mm)	60		
Width (mm)	50		
Ballast	Electronic		
Lamp	1 x T8 18W	1 x T8 36W	1 x T8 58W
Class	I		



### OPEN CHANNEL FLUORESCENTS

- Tube excluded

Product Code	J0014210	J0014208	J0014207
Colour	White		
Features/Benefits			
Watts (W)	2 x 18	2 x 36	2 x 58
Voltage (V)	240		
Protection Rating (IP)	20		
Length (mm)	620	1230	1530
Height (mm)	60		
Width (mm)	50		
Ballast	Electronic		
Lamp	2 x T8 18W	2 x T8 36W	2 x T8 58W
Class	I		



### EMPTY WIDE OPEN CHANNEL FLUORESCENTS

- Tube excluded
- Wired for LED

Product Code	J0023426	J0023427
Colour	White	
Application/Ideal Use	Indoor	
Features/Benefits		
Watts (W)	2 x LED tubes	
Voltage (V)	240	
Protection Rating (IP)	20	
Length (mm)	1230	1530
Height (mm)	60	
Width (mm)	85	
Ballast	None	
Lamp	2 x 4ft T8 LED tubes	2 x 5ft T8 LED tubes
Class	I	

**Note** Emergency option available on request.

# LIGHTING PRODUCTS

## INDOOR FLUORESCENTS

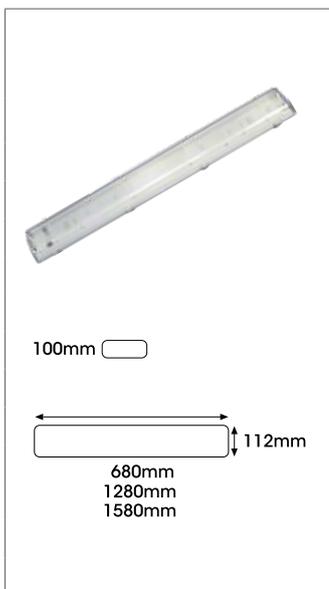


### T8 DIFFUSER

- Tube excluded
- Wired for LED

Product Code	J0070867	J0070868
Colour	White	
Application/Ideal Use	Indoor	
Features/Benefits		
Watts (W)	2 x LED tubes	
Voltage (V)	220-240	
Protection Rating (IP)	20	
Length (mm)	1238	1538
Width (mm)	60	
Height (mm)	164	
Ballast	None	
Lamp	2 x 4ft T8 LED tubes	2 x 5ft T8 LED tubes
Class	I	

## OUTDOOR FLUORESCENTS



### VAPOUR PROOF FLUORESCENTS

- Tube excluded

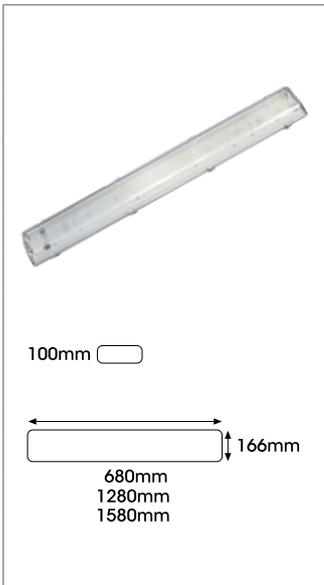
Product Code	J0016347	J0016343	J0016345
Colour	Grey/Clear		
Application/Ideal Use	Indoor/Outdoor		
Features/Benefits			
Watts (W)	1 x 18	1 x 36	1 x 58
Voltage (V)	240		
Protection Rating (IP)	65		
Length (mm)	680	1280	1580
Height (mm)	112		
Width (mm)	100		
Ballast	Switch start		
Lamp	1 x T8 18W	1 x T8 36W	1 x T8 58W
Class	I		



### VAPOUR PROOF FLUORESCENTS

- Tube excluded

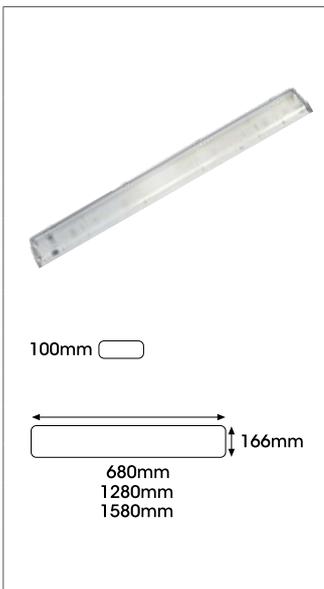
Product Code	J0016346	J0016342	J0016344
Colour	Grey/Clear		
Application/Ideal Use	Indoor/Outdoor		
Features/Benefits			
Watts (W)	2 x 18	2 x 36	2 x 58
Voltage (V)	240		
Protection Rating (IP)	65		
Length (mm)	680	1280	1580
Height (mm)	166		
Width (mm)	100		
Ballast	Switch start		
Lamp	2 x T8 18W	2 x T8 36W	2 x T8 58W
Class	I		



### VAPOUR PROOF FLUORESCENTS

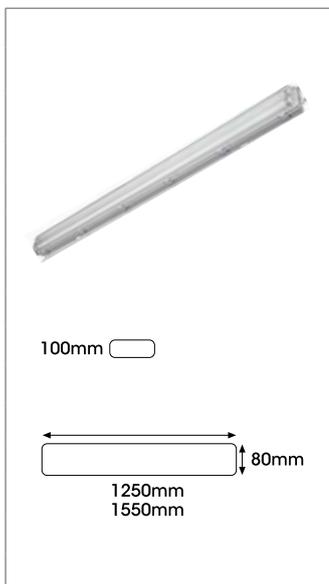
- Tube excluded

Product Code	J0016348	J0017070	J0000116
Colour	Grey/Clear		
Application/Ideal Use	Indoor/Outdoor		
Features/Benefits			
Watts (W)	2 x 18	2 x 36	2 x 58
Voltage (V)	240		
Protection Rating (IP)	65		
Length (mm)	680	1280	1580
Height (mm)	166		
Width (mm)	100		
Ballast	Electronic		
Lamp	2 x T8 18W	2 x T8 36W	2 x T8 58W
Class	I		



# LIGHTING PRODUCTS

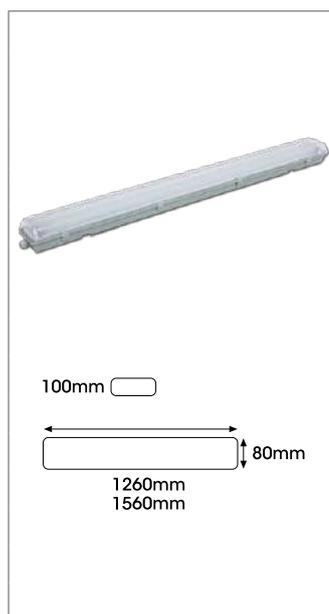
## OUTDOOR FLUORESCENTS



### PECRON VAPOUR PROOF FLUORESCENTS

- Tube excluded

Product Code	J0023473	J0023474
Colour	Grey/Clear	
Application/Ideal Use	Indoor/Outdoor	
Features/Benefits		
Watts (W)	2 x 36	2 x 58
Voltage (V)	240	
Protection Rating (IP)	65	
Length (mm)	1250	1550
Height (mm)	80	
Width (mm)	100	
Ballast	Electronic	
Lamp	2 x T8 36W	2 x T8 58W
Class	I	



### EMPTY VAPOUR PROOF FLUORESCENTS

- Tube excluded
- Wired for LED

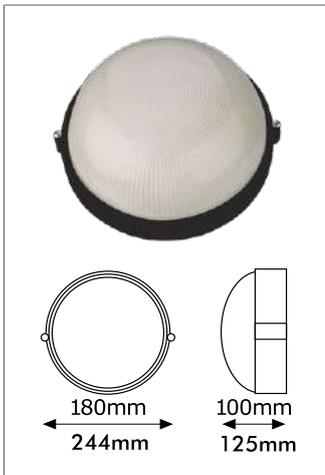
Product Code	J0024031	J0023428
Colour	Grey/Clear	
Application/Ideal Use	Indoor/Outdoor	
Features/Benefits		
Watts (W)	2 x LED Tubes	
Voltage (V)	240	
Protection Rating (IP)	65	
Length (mm)	1260	1560
Height (mm)	80	
Width (mm)	100	
Ballast	None	
Lamp	2 x 4ft T8 LED tubes	2 x 5ft T8 LED tubes
Class	I	



### ROUND PLAIN BULKHEAD

- Lamp excluded

Product Code	J0016092 (B49)	J0016086 (B51)
Colour	Black	
Application/Ideal Use	Outdoor	
Features/Benefits		
Watts (W)	1 x 60	1 x 100
Voltage (V)	240	
Protection Rating (IP)	54	
Dimensions (mm)	180 x 100	244 x 125
Lamp	1 x E27 CFL/LED	
Class	I	



### ROUND PLAIN BULKHEAD

- Lamp excluded

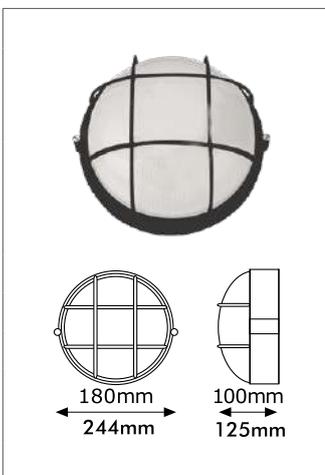
Product Code	J0016056 (B49)	J0016050 (B51)
Colour	White	
Application/Ideal Use	Outdoor	
Features/Benefits		
Watts (W)	1 x 60	1 x 100
Voltage (V)	240	
Protection Rating (IP)	54	
Dimensions (mm)	180 x 100	244 x 125
Lamp	1 x E27 CFL/LED	
Class	I	



### ROUND GRID BULKHEAD

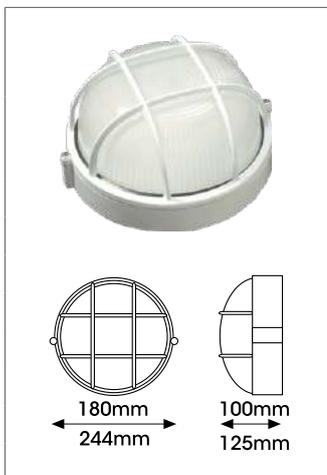
- Lamp excluded

Product Code	J0016091 (B49/G)	J0016048 (B51/G)
Colour	Black	
Application/Ideal Use	Outdoor	
Features/Benefits		
Watts (W)	1 x 60	1 x 100
Voltage (V)	240	
Protection Rating (IP)	54	
Dimensions (mm)	180 x 100	244 x 125
Lamp	1 x E27 CFL/LED	
Class	I	



# LIGHTING PRODUCTS

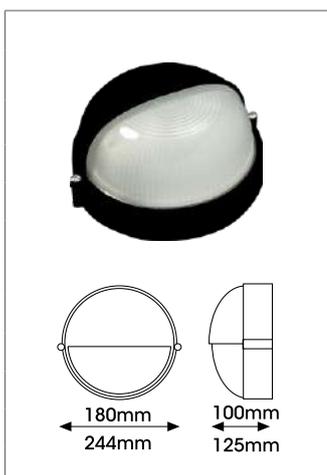
## DIE-CAST ALUMINIUM BULKHEADS



### ROUND GRID BULKHEAD

- Lamp excluded

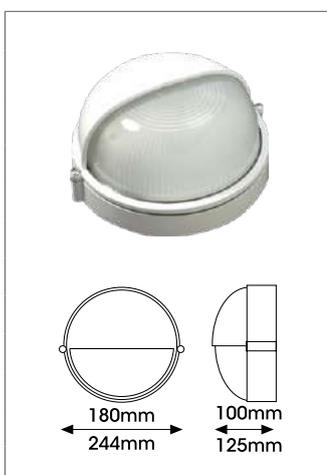
Product Code	J0016055 (B49/G)	J0016049 (B51/G)
Colour	White	
Application/Ideal Use	Outdoor	
Features/Benefits		
Watts (W)	1 x 60	1 x 100
Voltage (V)	240	
Protection Rating (IP)	54	
Dimensions (mm)	180 x 100	244 x 125
Lamp	1 x E27 CFL/LED	
Class	I	



### ROUND EYELID BULKHEAD

- Lamp excluded

Product Code	J0016093 (B49/E)	J0016087 (B51/E)
Colour	Black	
Application/Ideal Use	Outdoor	
Features/Benefits		
Watts (W)	1 x 60	1 x 100
Voltage (V)	240	
Protection Rating (IP)	54	
Dimensions (mm)	180 x 100	244 x 125
Lamp	1 x E27 CFL/LED	
Class	I	



### ROUND EYELID BULKHEAD

- Lamp excluded

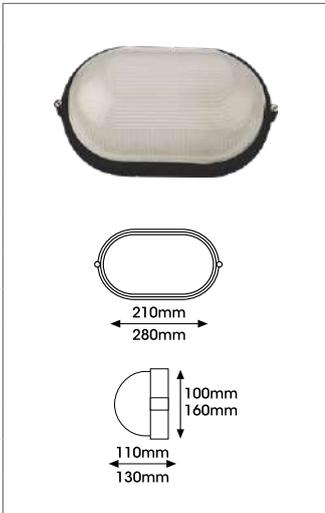
Product Code	J0016057 (B49/E)	J0016051 (B51/E)
Colour	White	
Application/Ideal Use	Outdoor	
Features/Benefits		
Watts (W)	1 x 60	1 x 100
Voltage (V)	240	
Protection Rating (IP)	54	
Dimensions (mm)	180 x 100	244 x 125
Lamp	1 x E27 CFL/LED	
Class	I	



### OVAL PLAIN BULKHEAD

- Lamp excluded

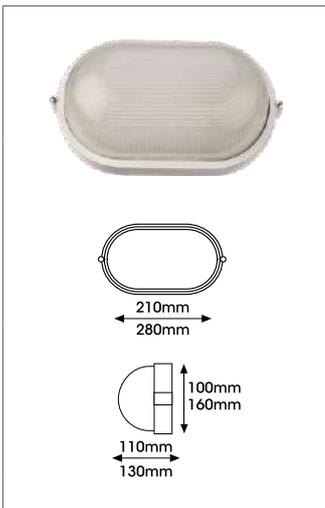
Product Code	J0016095 (B48)	J0016052 (B50)
Colour	Black	
Application/Ideal Use	Outdoor	
Features/Benefits		
Watts (W)	1 x 60	1 x 100
Voltage (V)	240	
Protection Rating (IP)	54	
Dimensions (mm)	210 x 100	280 x 160
Height (mm)	110	130
Lamp	1 x E27 CFL/LED	
Class	I	



### OVAL PLAIN BULKHEAD

- Lamp excluded

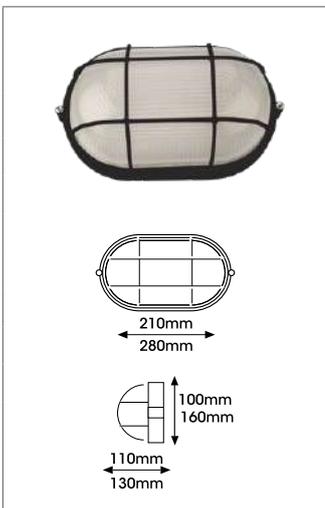
Product Code	J0016059 (B48)	J0016053 (B50)
Colour	White	
Application/Ideal Use	Outdoor	
Features/Benefits		
Watts (W)	1 x 60	1 x 100
Voltage (V)	240	
Protection Rating (IP)	54	
Dimensions (mm)	210 x 100	280 x 160
Height (mm)	110	130
Lamp	1 x E27 CFL/LED	
Class	I	



### OVAL GRID BULKHEAD

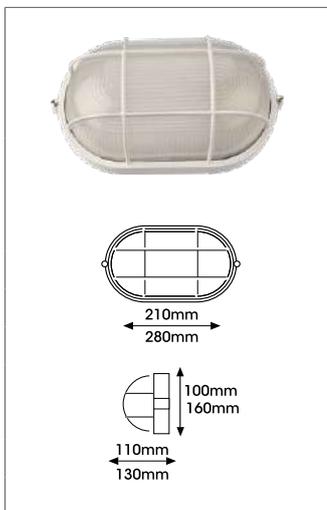
- Lamp excluded

Product Code	J0016094 (B48/G)	J0016088 (B50/G)
Colour	Black	
Application/Ideal Use	Outdoor	
Features/Benefits		
Watts (W)	1 x 60	1 x 100
Voltage (V)	240	
Protection Rating (IP)	54	
Dimensions (mm)	210 x 100	280 x 160
Height (mm)	110	130
Lamp	1 x E27 CFL/LED	
Class	I	



# LIGHTING PRODUCTS

## DIE-CAST ALUMINIUM BULKHEADS



### OVAL GRID BULKHEAD

- Lamp excluded

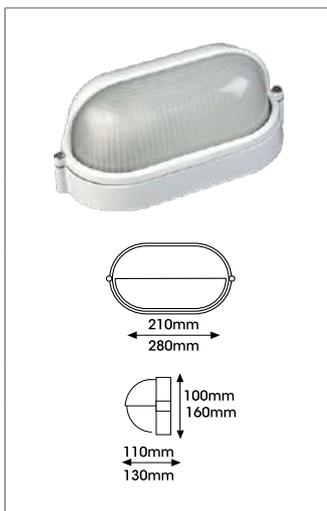
Product Code	J0016058 (B48/G)	J0016089 (B50/G)
Colour	White	
Application/Ideal Use	Outdoor	
Features/Benefits		
Watts (W)	1 x 60	1 x 100
Voltage (V)	240	
Protection Rating (IP)	54	
Dimensions (mm)	210 x 100	280 x 160
Height (mm)	110	130
Lamp	1 x E27 CFL/LED	
Class	I	



### OVAL EYELID BULKHEAD

- Lamp excluded

Product Code	J0016096 (B48/E)	J0016090 (B50/E)
Colour	Black	
Application/Ideal Use	Outdoor	
Features/Benefits		
Watts (W)	1 x 60	1 x 100
Voltage (V)	240	
Protection Rating (IP)	54	
Dimensions (mm)	210 x 100	280 x 160
Height (mm)	110	130
Lamp	1 x E27 CFL/LED	
Class	I	

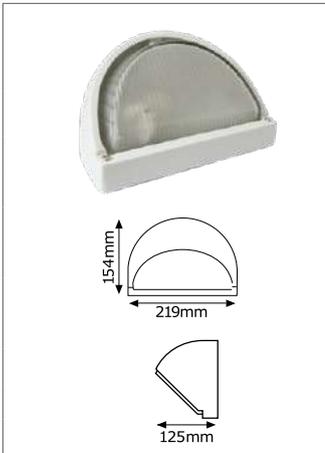


### OVAL EYELID BULKHEAD

- Lamp excluded

Product Code	J0016060 (B48/E)	J0016054 (B50/E)
Colour	White	
Application/Ideal Use	Outdoor	
Features/Benefits		
Watts (W)	1 x 60	1 x 100
Voltage (V)	240	
Protection Rating (IP)	54	
Dimensions (mm)	210 x 100	280 x 160
Height (mm)	110	130
Lamp	1 x E27 CFL/LED	
Class	I	

## DIE-CAST ALUMINIUM BULKHEADS

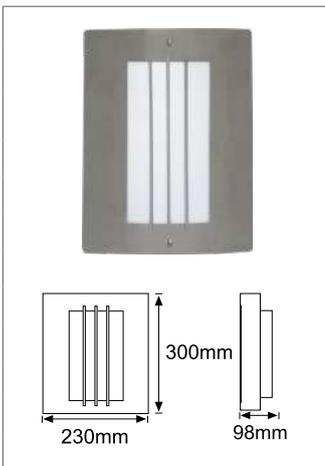


### WEDGE BULKHEAD B59

- Lamp excluded

Product Code	J0016061	J0016098
Colour	White	Black
Application/Ideal Use	Outdoor	
Features/Benefits		
Watts (W)	1 x 60	1 x 60
Voltage (V)	240	
Protection Rating (IP)	54	
Dimensions (mm)	219 x 125 x 154	
Lamp	1 x E27 CFL/LED	
Class	I	

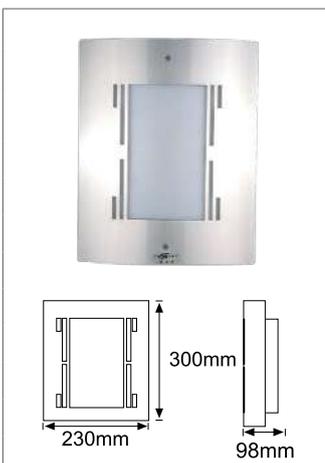
## OUTDOOR WALL LIGHTS



### STAINLESS STEEL WALL FITTING J11

- Lamp excluded

Product Code	J0016008
Colour	Stainless Steel
Application/Ideal Use	Outdoor
Features/Benefits	
Watts (W)	1 x 60
Voltage (V)	240
Protection Rating (IP)	44
Dimensions (mm)	300 x 230 x 98
Lamp	1 x E27 CFL/LED
Class	II



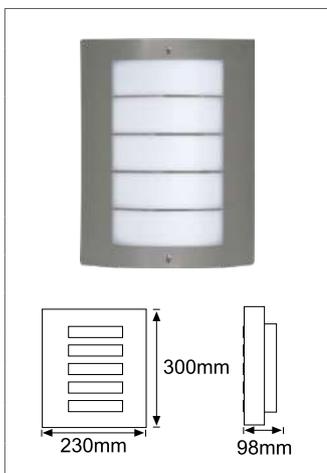
### STAINLESS STEEL WALL FITTING J12

- Lamp excluded

Product Code	J0016009
Colour	Stainless Steel
Application/Ideal Use	Outdoor
Features/Benefits	
Watts (W)	1 x 60
Voltage (V)	240
Protection Rating (IP)	44
Dimensions (mm)	300 x 230 x 98
Lamp	1 x E27 CFL/LED
Class	II

# LIGHTING PRODUCTS

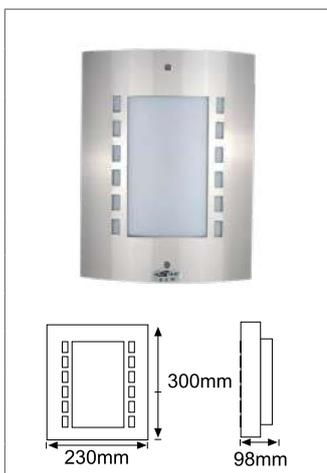
## OUTDOOR WALL LIGHTS



### STAINLESS STEEL WALL FITTING JL3

- Lamp excluded

Product Code	J0016010
Colour	Stainless Steel
Application/Ideal Use	Outdoor
Features/Benefits	
Watts (W)	1 x 60
Voltage (V)	240
Protection Rating (IP)	44
Dimensions (mm)	300 x 230 x 98
Lamp	1 x E27 CFL/LED
Class	II

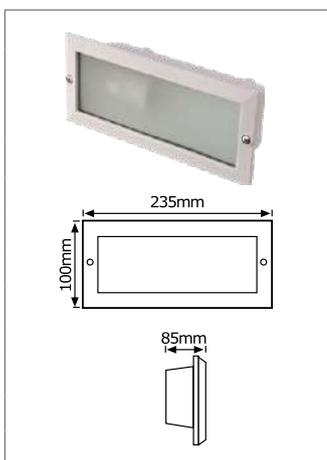


### STAINLESS STEEL WALL FITTING JL4

- Lamp excluded

Product Code	J0016011
Colour	Stainless Steel
Application/Ideal Use	Outdoor
Features/Benefits	
Watts (W)	1 x 60
Voltage (V)	240
Protection Rating (IP)	44
Dimensions (mm)	300 x 230 x 98
Lamp	1 x E27 CFL/LED
Class	II

## DIE-CAST ALUMINIUM BRICK LIGHTS

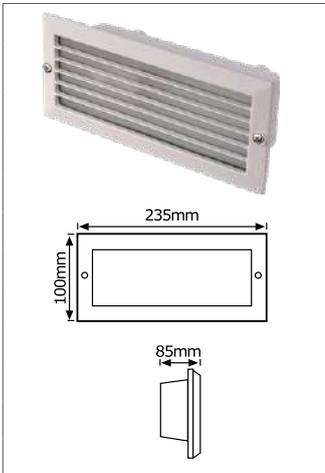


### BRICK LIGHT PLAIN B4

- Lamp excluded

Product Code	J0015986	J0015976
Colour	White	Black
Application/Ideal Use	Outdoor	
Features/Benefits		
Watts (W)	1 x 60	
Voltage (V)	240	
Protection Rating (IP)	44	
Dimensions (mm)	235 x 100 x 85	
Lamp	1 x E27 CFL/LED	
Class	I	

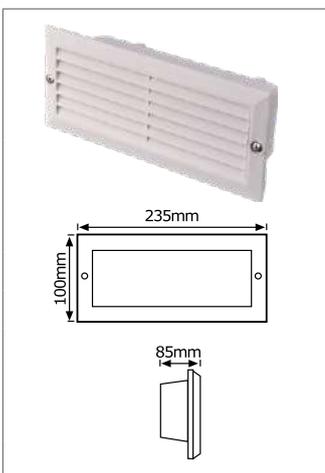
## DIE-CAST ALUMINIUM BRICK LIGHTS



### BRICK LIGHT GRID STRAIGHT LOUVRE B4G

- Lamp excluded

Product Code	J0017058	J0015977
Colour	White	Black
Application/Ideal Use	Outdoor	
Features/Benefits		
Watts (W)	1 x 60	
Voltage (V)	240	
Protection Rating (IP)	44	
Dimensions (mm)	235 x 100 x 85	
Lamp	1 x E27 CFL/LED	
Class	I	



### BRICK LIGHT GRID LOW LOUVRE B4L

- Lamp excluded

Product Code	J0015987	J0015978
Colour	White	Black
Application/Ideal Use	Outdoor	
Features/Benefits		
Watts (W)	1 x 60	
Voltage (V)	240	
Protection Rating (IP)	44	
Dimensions (mm)	235 x 100 x 85	
Lamp	1 x E27 CFL/LED	
Class	I	

## DIE-CAST ALUMINIUM OUTDOOR LANTERNS



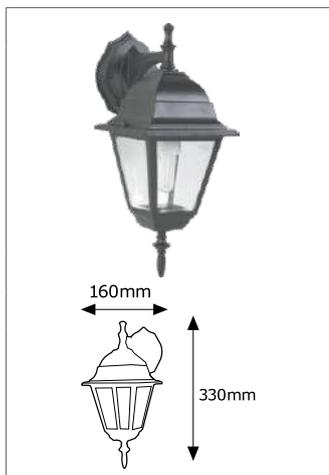
### 4 PANEL UP-FACING LANTERN OL/4/U

- Lamp excluded

Product Code	J0016021	J0016015
Colour	White	Black
Application/Ideal Use	Outdoor	
Features/Benefits		
Watts (W)	1 x 60	
Voltage (V)	240	
Protection Rating (IP)	44	
Dimensions (mm)	200 x 330	
Lamp	1 x E27 CFL/LED	
Class	I	

# LIGHTING PRODUCTS

## DIE-CAST ALUMINIUM OUTDOOR LANTERNS



### 4 PANEL DOWN-FACING LANTERN OL/4/D

- Lamp excluded

Product Code	J0016028	J0016022
Colour	White	Black
Application/Ideal Use	Outdoor	
Features/Benefits		
Watts (W)	1 x 60	
Voltage (V)	240	
Protection Rating (IP)	44	
Dimensions (mm)	160 x 330	
Lamp	1 x E27 CFL/LED	
Class	I	



### 4 PANEL PEDESTAL OL/4/P

- Lamp excluded

Product Code	J0016032	J0016023
Colour	White	Black
Application/Ideal Use	Outdoor	
Features/Benefits		
Watts (W)	1 x 60	
Voltage (V)	240	
Protection Rating (IP)	44	
Dimensions (mm)	155 x 350	
Lamp	1 x E27 CFL/LED	
Class	I	



### 6 PANEL UP-FACING LANTERN OL/6/U

- Lamp excluded

Product Code	J0016020	J0016012
Colour	White	Black
Application/Ideal Use	Outdoor	
Features/Benefits		
Watts (W)	1 x 60	
Voltage (V)	240	
Protection Rating (IP)	44	
Dimensions (mm)	240 x 360	
Lamp	1 x E27 CFL/LED	
Class	I	

## DIE-CAST ALUMINIUM OUTDOOR LANTERNS



### 6 PANEL DOWN-FACING LANTERN OL/6/D

- Lamp excluded

Product Code	J0016013	J0003182
Colour	White	Black
Application/Ideal Use	Outdoor	
Features/Benefits		
Watts (W)	1 x 60	
Voltage (V)	240	
Protection Rating (IP)	44	
Dimensions (mm)	240 x 360	
Lamp	1 x E27 CFL/LED	
Class	I	



### 6 PANEL PEDESTAL OL/6/P

- Lamp excluded

Product Code	J0015940	J0016014
Colour	White	Black
Application/Ideal Use	Outdoor	
Features/Benefits		
Watts (W)	1 x 60	
Voltage (V)	240	
Protection Rating (IP)	44	
Dimensions (mm)	360 x 240	
Lamp	1 x E27 CFL/LED	
Class	I	



### 5 PANEL HALF LANTERN OL2

- Lamp excluded

Product Code	J0003353	J0016018
Colour	White	Black
Application/Ideal Use	Outdoor	
Features/Benefits		
Watts (W)	2 x 60	
Voltage (V)	240	
Protection Rating (IP)	44	
Dimensions (mm)	222 x 380	
Lamp	2 x E27 CFL/LED	
Class	I	

# LIGHTING PRODUCTS

## DIE-CAST ALUMINIUM OUTDOOR LANTERNS



### 3 PANEL HALF LANTERN NARROW OL/3/N

- Lamp excluded

Product Code	J0016026	J0016017
Colour	White	Black
Application/Ideal Use	Outdoor	
Features/Benefits		
Watts (W)	1 x 60	
Voltage (V)	240	
Protection Rating (IP)	44	
Dimensions (mm)	160 x 360	
Lamp	1 x E27 CFL/LED	
Class	I	



### 3 PANEL HALF LANTERN OL3W

- Lamp excluded

Product Code	J0016025	J0016024
Colour	White	Black
Application/Ideal Use	Outdoor	
Features/Benefits		
Watts (W)	1 x 60	
Voltage (V)	240	
Protection Rating (IP)	44	
Dimensions (mm)	445 x 255	
Lamp	1 x E27 CFL/LED	
Class	I	



### 3 PANEL HALF LANTERN OL4

- Lamp excluded

Product Code	J0016106	J0016005
Colour	White	Black
Application/Ideal Use	Outdoor	
Features/Benefits		
Watts (W)	1 x 60	
Voltage (V)	240	
Protection Rating (IP)	44	
Dimensions (mm)	350 x 210	
Lamp	1 x E27 CFL/LED	
Class	I	

## PLASTIC GARDEN SPIKES

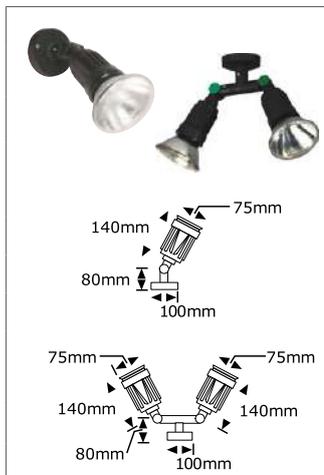


### GARDEN SPIKES

- Lamp excluded

Product Code	J0000114 (GS1)	J0000115 (GS2)
Colour	Black	
Application/Ideal Use	Outdoor	
Features/Benefits		
Watts (W)	1 x 150	2 x 150
Voltage (V)	240	
Protection Rating (IP)	44	
Dimensions (mm)	140 x 75	
Lamp	1 x E27 PAR38 CFL	2 x E27 PAR38 CFL
Class	II	

## PLASTIC OUTDOOR WALL LIGHTS



### PLASTIC GARDEN WALL LIGHTS

- Lamp excluded

Product Code	J0003358 (SW1)	J0003359 (TW2)
Colour	Black	
Application/Ideal Use	Outdoor	
Features/Benefits		
Watts (W)	1 x 150	2 x 150
Voltage (V)	240	
Protection Rating (IP)	44	
Dimensions (mm)	140 x 75	
Lamp	1 x E27 PAR38 CFL	2 x E27 PAR38 CFL
Class	I	

# LIGHTING PRODUCTS

## FLOODLIGHTS



### PAR38 WITH MOTION SENSOR ST65

- Lamp excluded

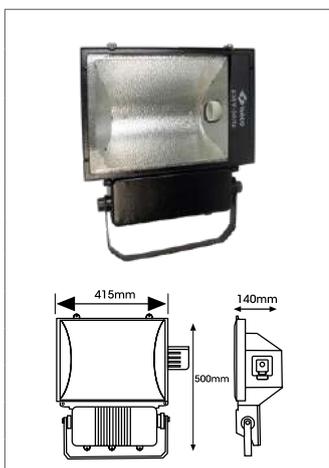
Product Code	J0008242
Colour	Black
Application/Ideal Use	Outdoor
Features/Benefits	
Watts (W)	2 x 150
Voltage (V)	240
Protection Rating (IP)	44
Dimensions (mm)	110 x 72
Dimmable	No
Detection (m)	10
Sensor Angle	90°
Lamp	2 x PAR38 CFL
Class	II



### FLOODLIGHT

- Lamp excluded

Product Code	J0003140 (FL500)
Colour	Black
Application/Ideal Use	Outdoor
Features/Benefits	
Watts (W)	1 x 500
Voltage (V)	240
Protection Rating (IP)	44
Dimensions (mm)	185 x 230 x 145
Dimmable	No
Lamp	1 x 118mm Halogen QI
Class	I



### MERCURY VAPOUR FLOODLIGHT

- Lamp excluded

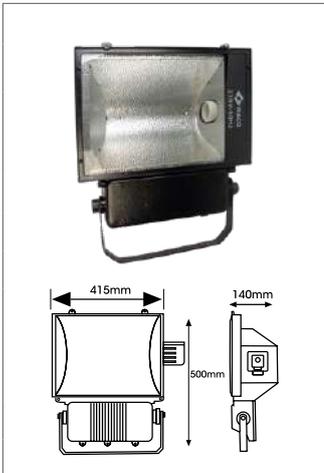
Product Code	J0016309
Colour	Black
Application/Ideal Use	Outdoor
Features/Benefits	
Watts (W)	1 x 400
Voltage (V)	240
Protection Rating (IP)	54
Dimensions (mm)	415 x 500 x 140
Lamp	1 x 400W mercury vapour
Class	I



### HPS AND MH FLOODLIGHT

- Lamp excluded

Product Code	J0016325	J0013439
Colour	Black	
Application/Ideal Use	Outdoor	
Features/Benefits		
Watts (W)	1 x 250	1 x 400
Voltage (V)	240	
Protection Rating (IP)	54	
Dimensions (mm)	415 x 500 x 140	
Lamp	1 x 250W HPS/MH	1 x 400W HPS/MH
Class	I	



### METAL HALIDE FLOODLIGHT

- Lamp excluded

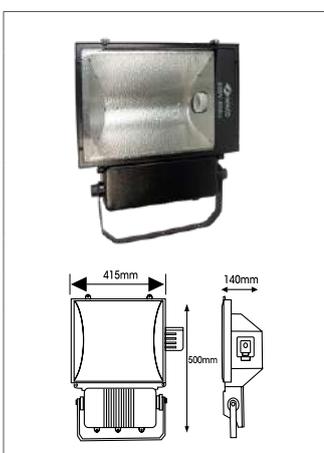
Product Code	J0014048
Colour	Black
Application/Ideal Use	Outdoor
Features/Benefits	
Watts (W)	1 x 1 000
Voltage (V)	240
Protection Rating (IP)	54
Dimensions (mm)	430 x 600 x 190
Lamp	1 x 1000W metal halide
Class	I



### EMPTY BODY FLOODLIGHT

- Lamp excluded
- Control gear excluded

Product Code	J0017005
Colour	Black
Application/Ideal Use	Outdoor
Features/Benefits	
Voltage (V)	240
Protection Rating (IP)	54
Dimensions (mm)	415 x 500 x 140
Lamp	1 x CFL/mercury blend/LED
Class	I



# LIGHTING PRODUCTS

## LED INDOOR



### LED STRAIGHT S62

- Lamp excluded
- Lamp holders excluded

Product Code	J0065136	J0065137
Colour	White	Satin Chrome
Protection Rating (IP)	20	
Cut Out (mm)	60	
Material	Steel	
Lamp	GU10 LED	
Lamp Holder	LH1/LH2	
Class	III	



### LED TILT STEEL DOWNLIGHTER

- Lamp excluded
- Lamp holders excluded

Product Code	J0065134	J0065135
Colour	White	Satin Chrome
Protection Rating (IP)	20	
Cut Out (mm)	85	
Material	Steel	
Lamp	GU10 LED	
Lamp Holder	LH1/LH2	
Class	III	



### SLIM LED DOWNLIGHTS

- Ceiling
- Non-dimmable

Product Code	J0000790	J0000804	J0000806
Watts (W)	6	12	18
Dimensions (mm)	120 x 21	170 x 21	225 x 21
Cut Out (mm)	110	160	205
Beam Angle (°)	120		
PF	0.5		
Lumen (lm)	390	780	1170
Body Material	Aluminium		
Colour Temperature (K)	6500	6500	6500
Warranty	1 Year		



### RETROFIT SURFACE MOUNT CLIP-ON SLIM MINI PANEL

- Ceiling
- Non-dimmable

Product Code	J0066789	J0066790	J0066791	J0066792
Watts (W)	6		12	
Voltage (V)	200 - 240			
Dimensions (mm)	113 x 14		161 x 14	
PF	>0.5			
Lumen (lm)	470	470	1060	1060
Colour Temperature (K)	2700	6500	2700	6500
Warranty	1 Year			



### BUILT-IN SPOTLIGHT ON PLATE

Product Code	J0065735	J0065734
Colour	Satin Chrome	
Watts (W)	1 x 4	
Voltage (V)	180 - 265	
Dimensions (mm)	100 x 90	
Lumen (lm)	420	380
Colour Temperature (K)	6500	3000



### 2 BUILT-IN SPOTLIGHTS ON PLATE

Product Code	J0065739	J0065738
Colour	Satin Chrome	
Watts (W)	2 x 4	
Voltage (V)	180 - 265	
Dimensions (mm)	195 x 90	
Lumen (lm)	840	760
Colour Temperature (K)	6500	3000



### 3 BUILT-IN SPOTLIGHTS ON PLATE

Product Code	J0065743	J0065742
Colour	Satin Chrome	
Watts (W)	3 x 4	
Voltage (V)	180 - 265	
Dimensions (mm)	235 x 90	
Lumen (lm)	1260	1140
Colour Temperature (K)	6500	3000

# LIGHTING PRODUCTS

## LED INDOOR



### 2 BUILT-IN SPOTLIGHTS ON CURVED BAR

Product Code	J0065745	J0065744
Colour	Satin Chrome	
Watts (W)	2 x 4	2 x 4
Voltage (V)	180 - 265	
Dimensions (mm)	390 x 100	
Lumen (lm)	840	760
Colour Temperature (K)	6500	3000



### 3 BUILT-IN SPOTLIGHTS ON CURVED BAR

Product Code	J0065747	J0065746
Colour	Satin Chrome	
Watts (W)	3 x 4	3 x 4
Voltage (V)	180 - 265	
Dimensions (mm)	690 x 100	
Lumen (lm)	1260	1140
Colour Temperature (K)	6500	3000



### 4 BUILT-IN SPOTLIGHTS ON CURVED BAR

Product Code	J0065749	J0065748
Colour	Satin Chrome	
Watts (W)	4 x 4	4 x 4
Voltage (V)	180 - 265	
Dimensions (mm)	830 x 100	
Lumen (lm)	1680	1520
Colour Temperature (K)	6500	3000



### 2 BUILT-IN SPOTLIGHTS ON STRAIGHT BAR

Product Code	J0065737	J0065736
Colour	Satin Chrome	
Watts (W)	2 x 4	2 x 4
Voltage (V)	180 - 265	
Dimensions (mm)	360 x 90	
Lumen (lm)	840	760
Colour Temperature (K)	6500	3000



### 3 BUILT-IN SPOTLIGHTS ON STRAIGHT BAR

Product Code	J0065741	J0065740
Colour	Satin Chrome	
Watts (W)	3 x 4	3 x 4
Voltage (V)	180 - 265	
Dimensions (mm)	560 x 90	
Lumen (lm)	1260	1140
Colour Temperature (K)	6500	3000



### 1 LIGHT PENDANT LIGHT

- Lamp excluded

Product Code	J0065762
Colour	Chrome
Lamp	1 x Filament LED
Voltage (V)	240
Dimensions (mm)	120 x 1200
Lampholder	E27



### 2 LIGHT PENDANT LIGHT

- Lamps excluded

Product Code	J0065763
Colour	Chrome
Lamp	2 x Filament LED
Voltage (V)	240
Dimensions (mm)	120 x 1200
Lampholder	E27



### 3 LIGHT PENDANT LIGHT

- Lamps excluded

Product Code	J0065764
Colour	Chrome
Lamp	3 x Filament LED
Voltage (V)	240
Dimensions (mm)	120 x 1200
Lampholder	E27

# LIGHTING PRODUCTS

## LED INDOOR



### 2 SPOTLIGHTS ON STRAIGHT BAR

- Lamp excluded

Product Code	J0065757	J0065756
Colour	Black	White
Watts (W)	2 x 50	
Voltage (V)	240	
Dimensions (mm)	150 x 330	
Lampholder	2 x GU10	



### 3 SPOTLIGHTS ON STRAIGHT BAR

- Lamp excluded

Product Code	J0065759	J0065758
Colour	Black	White
Watts (W)	3 x 50	
Voltage (V)	240	
Dimensions (mm)	150 x 600	
Lampholder	3 x GU10	



### 4 SPOTLIGHTS ON STRAIGHT BAR

- Lamp excluded

Product Code	J0065761	J0065760
Colour	Black	White
Watts (W)	4 x 50	
Voltage (V)	240	
Dimensions (mm)	150 x 700	
Lampholder	4 x GU10	



### 1 SPOTLIGHT ON PLATE

- Lamp excluded

Product Code	J0065751	J0065750
Colour	Black	White
Watts (W)	1 x 50	
Voltage (V)	240	
Protection Rating (IP)	20	
Dimensions (mm)	80 x 120	
Lampholder	1 x GU10	



### 2 SPOTLIGHTS ON PLATE

- Lamp excluded

Product Code	J0065753	J0065752
Colour	Black	White
Watts (W)	2 x 50	
Voltage (V)	240	
Protection Rating (IP)	20	
Dimensions (mm)	190 x 120	
Lampholder	2 x GU10	



### 3 SPOTLIGHTS ON PLATE

- Lamp excluded

Product Code	J0065755	J0065754
Colour	Black	White
Watts (W)	3 x 50	
Voltage (V)	240	
Protection Rating (IP)	20	
Dimensions (mm)	235 x 120	
Lampholder	3 x GU10	



### LED SPOTLIGHT

Product Code	J0070947
Colour	Satin Chrome
Watts (W)	2 x 5
Voltage (V)	240
Dimensions (m)	310 x 100 x 230
Lumen (lm)	2 x 350
Colour Temperature (K)	4000
Warranty	1 Year



### 6W AND 12W ROUND LED BULKHEADS

Product Code	J0065265	J0065267	J0065281	J0065283
Colour	White		Black	
Material	Polycarbonate			
Watts (W)	6	12	6	12
Voltage (V)	220 -240			
Protection Rating (IP)	54			
PF Rating	0.5			
Lumen (lm)	420	840	420	840
Colour Temperature (K)	6500			

# LIGHTING PRODUCTS

## LED INDOOR



### 6W AND 12W OVAL LED BULKHEADS

Product Code	J0065266	J0065268	J0065282	J0065284
Colour	White		Black	
Material	Polycarbonate			
Watts (W)	6	12	6	12
Voltage (V)	220 -240			
Protection Rating (IP)	54			
PF Rating	0.5			
Lumen (lm)	420	840	420	840
Colour Temperature (K)	6500			



### WALL LAMP

Product Code	J0070948
Colour	Black
Watts (W)	9
Voltage (V)	100 - 265
Protection Rating (IP)	20
PF Rating	>0.9
Lumen (lm)	585
Dimensions (mm)	460 x 45 x 70
Beam Angle (°)	120
Colour Temperature (K)	4000



### WALL LAMP

Product Code	J0070949
Colour	White
Watts (W)	9
Voltage (V)	100 - 265
Protection Rating (IP)	20
PF Rating	>0.9
Lumen (lm)	585
Dimensions (mm)	460 x 45 x 70
Beam Angle (°)	120
Colour Temperature (K)	4000



### SLIMLINE LED FLOODLIGHT

<b>Product Code</b>	<b>J0064681</b>
Watts (W)	10
Protection Rating (IP)	65
Lumen (lm)	680
Warranty	1 Year



### SLIMLINE LED FLOODLIGHT

<b>Product Code</b>	<b>J0064684</b>
Watts (W)	20
Protection Rating (IP)	65
Lumen (lm)	1200
Warranty	1 Year



### SLIMLINE LED FLOODLIGHT

<b>Product Code</b>	<b>J0064691</b>
Watts (W)	30
Protection Rating (IP)	65
Lumen (lm)	2100
Warranty	1 Year



### SLIMLINE LED FLOODLIGHT

<b>Product Code</b>	<b>J0064768</b>
Watts (W)	50
Protection Rating (IP)	65
Lumen (lm)	3000
Warranty	1 Year



### SLIMLINE LED FLOODLIGHT

<b>Product Code</b>	<b>J0064769</b>
Watts (W)	70
Voltage (V)	220 - 240
Protection Rating (IP)	65
Lumen (lm)	4600
Colour Temperature (K)	6500
Warranty	1 Year

# LIGHTING PRODUCTS

## LED OUTDOOR



### SLIMLINE LED FLOODLIGHT

Product Code	J0064770
Watts (W)	100
Voltage (V)	220 - 240
Protection Rating (IP)	65
Lumen (lm)	6800
Colour Temperature (K)	6500
Warranty	1 Year



### SLIMLINE LED FLOODLIGHT

Product Code	J0064771
Watts (W)	150
Voltage (V)	220 - 240
Protection Rating (IP)	65
Lumen (lm)	9000
Colour Temperature (K)	6500
Warranty	1 Year



### SLIMLINE LED FLOODLIGHT

Product Code	J0064772
Watts (W)	200
Voltage (V)	220 - 240
Protection Rating (IP)	65
Lumen (lm)	12 000
Colour Temperature (K)	6500
Warranty	1 Year



### 10W LED FLOODLIGHT WITH SENSOR

Product Code	J0065899
Watts (W)	10
Voltage (V)	100 - 265
Protection Rating (IP)	44
Dimensions (mm)	190 x 130 x 55
Sensing Distance (m)	5 - 8
PF Rating	>0.5
Lumen (lm)	680
Colour Temperature (K)	6500
Warranty	1 Year



### 20W LED FLOODLIGHT WITH SENSOR

Product Code	J0065900
Watts (W)	20
Voltage (V)	100 - 265
Dimensions (mm)	190 x 130 x 55
PF Rating	>0.5
Lumen (lm)	1200
Colour Temperature (K)	6500
Warranty	1 Year



### 30W LED FLOODLIGHT WITH SENSOR

Product Code	J0065901
Watts (W)	30
Voltage (V)	100 - 265
Protection Rating (IP)	44
Dimensions (mm)	230 x 185 x 55
Beam Angle (°)	120
PF Rating	>0.9
Lumen (lm)	2100
Colour Temperature (K)	6500
Warranty	1 Year



### 50W LED FLOODLIGHT WITH SENSOR

Product Code	J0065902
Watts (W)	50
Voltage (V)	100 - 265
Protection Rating (IP)	44
Dimensions (mm)	260 x 215 x 55
Beam Angle (°)	120
PF Rating	>0.9
Lumen (lm)	3000
Colour Temperature (K)	6500
Warranty	1 Year

# LIGHTING PRODUCTS

## LED OUTDOOR



### 2 x 10W LED SENSOR SPOTLIGHT

Product Code	J0070946
Watts (W)	2 x 10
Voltage (V)	220 - 240
Protection Rating (IP)	54
Dimensions (mm)	200 x 120 x 175
Beam Angle (°)	120
Sensing Distance (m)	12
Sensing Angle	110°
Time Adjustment	5secs - 12mins
Lumen (lm)	1800
Colour Temperature (K)	6500



### TRIPOD WITH TWO FLOODLIGHTS

- 3m cable and plug

Product Code	J0028444
Watts (W)	2 x 20
Voltage (V)	220 - 240
Protection Rating (IP)	65
Beam Angle (°)	120
Lifespan	30 000hrs
Lumen (lm)	3200
Colour Temperature (K)	6500
Warranty	1 Year

## LED FLOODLIGHTS



### LED FLOODLIGHT

Product Code	J0073809
Watts (W)	300
Voltage (V)	100 - 277
Protection Rating (IP)	65
PF Rating	>0.9
CRI (RA)	>70
Lumen (lm)	27 000
Colour Temperature (K)	6500
Warranty	2 Years



### LED FLOODLIGHT

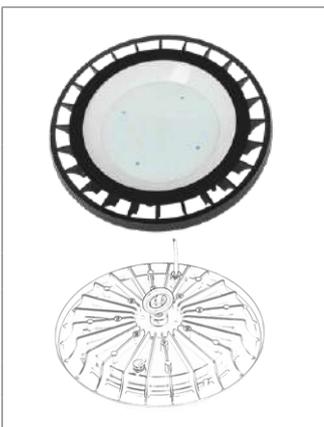
Product Code	J0073810
Watts (W)	500
Voltage (V)	100 - 277
Protection Rating (IP)	65
PF Rating	>0.9
CRI (RA)	>70
Lumen (lm)	45 000
Colour Temperature (K)	6500
Surge Protection (V)	4000
Warranty	2 Years

## INDUSTRIAL LIGHTING



### 100W LED HIGHBAY FITTING

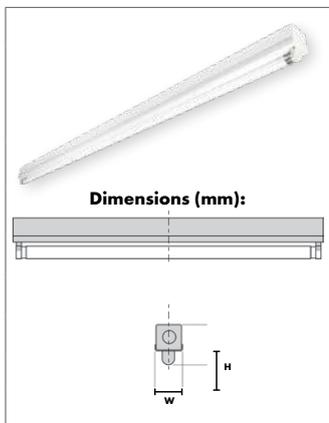
Product Code	J0001499
Watts (W)	100
Voltage (V)	220
Beam Angle (°)	120
Lumen (lm)	7000
Colour Temperature (K)	6500
Warranty	1 Year



### UFO LED HIGHBAY FITTING

Product Code	J0072992
Watts (W)	150
Voltage (V)	220 - 277
Protection Rating (IP)	65
Dimensions (mm)	340 x 50
Beam Angle (°)	120
PF	≥0.9
Lumen (lm)	15 000
Colour Temperature (K)	6500
Warranty	1 Year

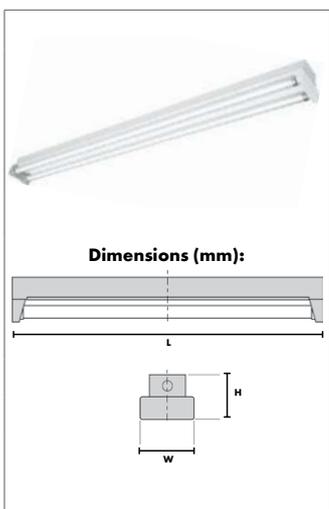
## INDUSTRIAL LIGHTING



### VNC-T5

- Cold rolled mild steel with a white epoxy powder coated finish
- Electronic control gear and T5 lamp holders
- Tube excluded

Product Code	Model	Watts (W)	Dimensions			Weight (kg)
			Length (mm)	Width (mm)	Height (mm)	
J0024155	VNC-128-ELB	1 x 28	1180	44	64	1.2
J0024157	VNC-154-ELB	1 x 54	1180	44	64	1.2
J0024156	VNC-135-ELB	1 x 35	1480	44	64	1.8
J0024158	VNC-180-ELB	1 x 80	1480	44	64	1.8

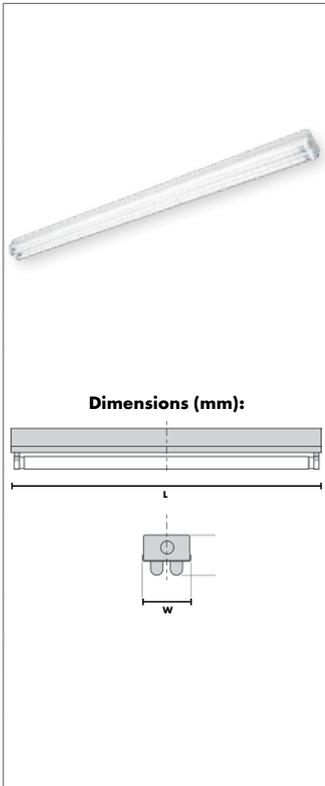


### VEC-LED TUBES

- Cold rolled mild steel with a white epoxy powder coated finish
- Wired for LED tubes
- Tube excluded

Product Code	Model	Type	Dimensions			Weight (kg)
			Length (mm)	Width (mm)	Height (mm)	
J0024174	VEC-118-LED	1 x 4ft LED	1240	72	85	1.0
J0024175	VEC-218-LED	2 x 4ft LED	1240	100	85	1.2
J0024176	VEC-122-LED	1 x 5ft LED	1540	72	85	1.5
J0024177	VEC-222-LED	2 x 5ft LED	1540	100	85	1.7

**Note** No emergency option available for this range.



### VEC-T5

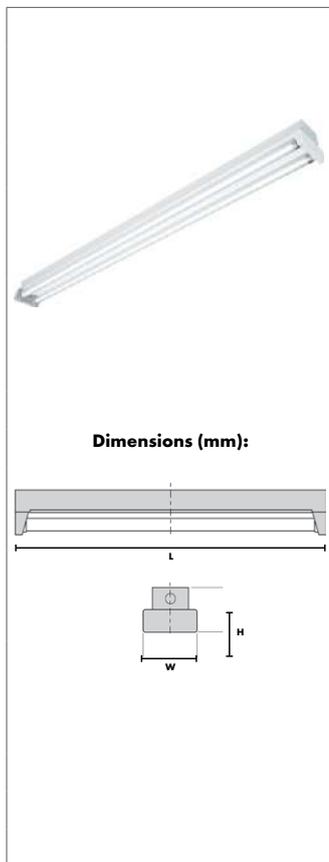
- Cold rolled mild steel with a white epoxy powder coated finish
- Electronic control gear and T5 lamp holders
- Tube excluded

Product Code	Model	Watts (W)	Dimensions			Weight (kg)
			Length (mm)	Width (mm)	Height (mm)	
J0024160	VEC-228-ELB	2 x 28	1180	72	70	2.0
J0024163	VEC-254-ELB	2 x 54	1180	72	70	2.0
J0024165	VEC-235-ELB	2 x 35	1480	72	70	2.4
J0024167	VEC-280-ELB	2 x 80	1480	72	70	2.4

#### Accessories

Product Code	Description	Size
		(mm)
J0024299	White Wing	1200
J0024300		1500
J0024301	Galvanised Wire Guard	1200
J0024302		1500
J0024303	Bi-Focal Wing	1200
J0024304		1500

**Note** No emergency option available for this range.



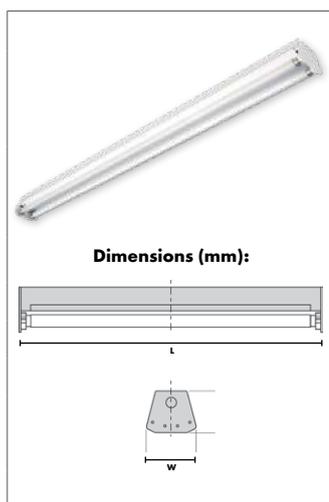
### VEC-T8

- Cold rolled mild steel with a white epoxy powder coated finish
- Electronic control gear and T8 lamp holders
- Tube excluded

Product Code	Model	Watts (W)	Dimensions			Weight (kg)
			Length (mm)	Width (mm)	Height (mm)	
J0024168	VEC-118-ELB	1 x 18	630	72	85	1.0
J0024169	VEC-218-ELB	2 x 18	630	100	85	1.2
J0024170	VEC-136-ELB	1 x 36	1240	72	85	1.8
J0024171	VEC-236-ELB	2 x 36	1240	100	85	2.0
J0024172	VEC-158-ELB	1 x 58	1540	72	85	2.2
J0024173	VEC-258-ELB	2 x 58	1540	100	85	2.4

#### Accessories

Product Code	Description	Size
		(mm)
J0023528	White Wing	1200
J0001682		1500
J0023531	Galvanised Wire Guard	1500
J0023532		1200
J0002210	Bi-Focal Wing	1200
J0002209		1500

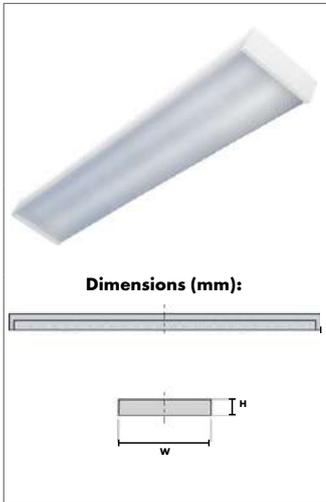


### VLV-T8

- Cold rolled mild steel with a white epoxy powder coated finish
- Electronic control gear and T8 lamp holders
- Tube excluded

Product Code	Model	Watts (W)	Dimensions			Weight (kg)
			Length (mm)	Width (mm)	Height (mm)	
J0024178	VLV-118-ELB	1 x 18	630	72	85	1.0
J0024179	VLV-218-ELB	2 x 18	630	100	85	1.2
J0024180	VLV-136-ELB	1 x 36	1240	72	85	1.8
J0024181	VLV-236-ELB	2 x 36	1240	100	85	2.0
J0024182	VLV-158-ELB	1 x 58	1540	72	85	2.2
J0024183	VLV-258-ELB	2 x 58	1540	100	85	2.4

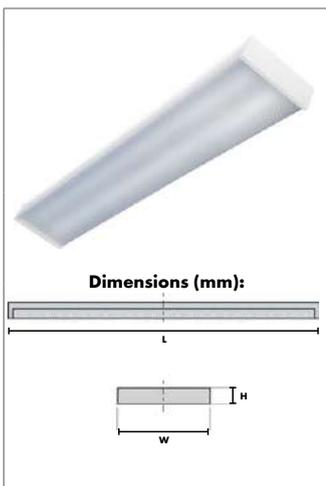
**Note** Emergency option available on request.



### VSD-LED TUBES

- Mild steel with a white epoxy powder coated finish, prismatic diffuser
- Wired for LED tubes
- Tube excluded

Product Code	Model	Type	Dimensions			Weight
			Length	Width	Height	
			(mm)	(mm)	(mm)	(kg)
J0024186	VSD-218-LED	2 x 4ft LED	1285	220	90	2.9
J0024187	VSD-222-LED	2 x 5ft LED	1585	220	90	4.3



### VSD-T5

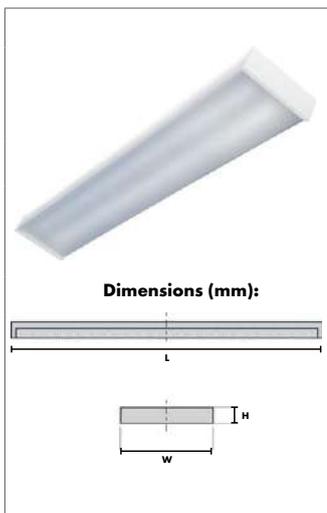
- Mild steel with a white epoxy powder coated finish, prismatic diffuser
- Electronic control gear and T5 lamp holders
- Tube excluded

Product Code	Model	Watts	Dimensions			Weight
			Length	Width	Height	
		(W)	(mm)	(mm)	(mm)	(kg)
J0024305	VSD-228-ELB	2 x 28	1285	220	90	3.2

**Note** Emergency option available for this range.

# LIGHTING PRODUCTS

## INDUSTRIAL LIGHTING

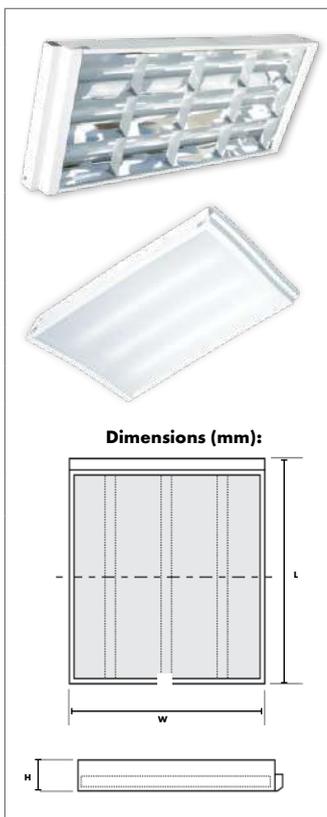


### VSD-T8

- Mild steel with a white epoxy powder coated finish, prismatic diffuser
- Electronic control gear and T8 lamp holders
- Tube excluded

Product Code	Model	Watts	Dimensions			Weight
			Length	Width	Height	
		(W)	(mm)	(mm)	(mm)	(kg)
J0001804	VSD-236-ELB	2 x 36	1285	220	90	3.2
J0001805	VSD-258-ELB	2 x 58	1585	220	90	4.6

**Note** Emergency option available on request.

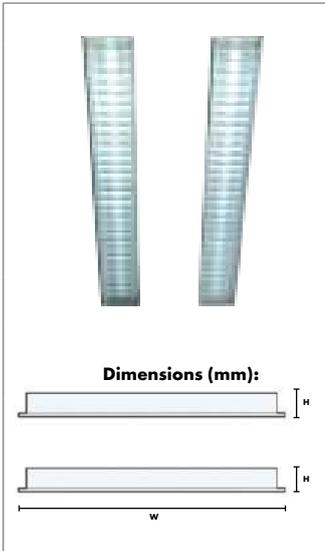


### VLR-LED

- Mild steel with a white epoxy powder coated finish
- Wired for LED tubes
- LBR and prismatic diffuser ordered separately
- Supplied with cord set
- Tube excluded

Product Code	Model	Type	Dimensions	
			Length	Width
			(mm)	(mm)
J0025550	Louvre	3 x 2ft LED	600	600
J0066137	Louvre	3 x 4ft LED	600	1200
J0066138	Diffuser	3 x 4ft LED	600	1200
J0066139	Louvre	4 x 4ft LED	600	1200
J0066140	Diffuser	4 x 4ft LED	600	1200

**Note** No emergency option available for this range. 1200 x 600 version only.



### VLR-T5

- Mild steel with a white epoxy powder coated finish
- Electronic control gear and T5 lamp holders
- Complete with low brightness louvre
- Supplied with cord set
- Tube excluded

Product Code	Model	Watts	Dimensions			Weight
			Length	Width	Height	
		(W)	(mm)	(mm)	(mm)	(kg)
J0024194	VLR-224-ELB	2 x 24	597	597	53	3.0
J0024193	VLR-228-ELB	2 x 28	1197	597	53	5.9

**Note** Emergency option available on request.

### SURFACE MOUNT DECORATIVES SM30

- Sheet metal white powder coated bevelled edged body with snap on injection moulded end cap
- The fittings come with electronic ballasts
- Emergency control gear can be added on request
- Tube excluded



### DLB LOUVRE

Product Code	Lamps	Dimensions		
		Length	Width	Height
	(W)	(mm)	(mm)	(mm)
J0000929	2 x 36	1265	330	90
J0000925	3 x 36	1265	445	90
J0000924	2 x 58	1565	330	90



### LBR LOUVRE

Product Code	Lamps	Dimensions		
		Length	Width	Height
	(W)	(mm)	(mm)	(mm)
J0000923	2 x 36	1265	330	90
J0000921	3 x 36	1265	445	90
J0000919	2 x 58	1565	330	90

# LIGHTING PRODUCTS

## INDUSTRIAL LIGHTING



### PRISMATIC DIFFUSER

Product Code	Lamps	Dimensions		
		Length	Width	Height
	(W)	(mm)	(mm)	(mm)
J0000948	2 x 36	1265	330	90
J0000945	3 x 36	1265	445	90
J0000930	2 x 58	1565	330	90

## LAMPS



### LED FLAME LAMP

Product Code	J0068117
Watts (W)	1.5
Voltage (V)	100 - 240
Dimensions (mm)	57 x 57 x 140
Beam Angle (°)	360
PF	0.5
Lumen (lm)	50
Colour Temperature (K)	1800



### 45W ENERGY SAVING

Product Code	J0014731	J0013965
Watts (W)	45	
Voltage (V)	240	
Length (mm)	250	
Dimmable	No	
Base	GES	ES
Colour Temperature (K)	4000	



### 65W ENERGY SAVING

Product Code	J0014761
Watts (W)	65
Voltage (V)	240
Length (mm)	280
Dimmable	No
Base	GES
Colour Temperature (K)	4000



### 85W ENERGY SAVING

Product Code	J0003686
Watts (W)	85
Voltage (V)	240
Length (mm)	335
Dimmable	No
Base	GES
Colour Temperature (K)	4000



### 105W ENERGY SAVING

Product Code	J0023546
Watts (W)	105
Voltage (V)	240
Length (mm)	330
Dimmable	No
Base	GES
Colour Temperature (K)	4000



### 2D LAMP

Product Code	J0002898
Watts (W)	16
Voltage (V)	240
Pins	2
Dimmable	No
Base	GR10q
Colour Temperature (K)	4000

# LIGHTING PRODUCTS

## LAMPS



### T4 FLUORESCENT LAMPS

Product Code	J0014944
Watts (W)	10
Voltage (V)	240
Length (mm)	370
Dimmable	No
Base	G5
Colour Temperature (K)	4000



### T5 FLUORESCENT LAMPS

Product Code	J0003165	J0003166	J0003168	J0015064	J0003170	J0002891
Watts (W)	4	6	8	6	8	8
Voltage (V)	240					
Length (mm)	150	226	302	226	302	285
Lifespan						8000
Dimmable	No					
Base	G5					
Colour Temperature (K)	Black light blue			Black light white		Cool white



### T8 FLUORESCENT LAMPS

Product Code	J0015078	J0015079	J0003171	J0014933	J0002892
Watts (W)	10	10	15	18	10
Voltage (V)	240				
Length (mm)	346	346	450	600	330
Lifespan					8000
Dimmable	No				
Base	G13				
Colour Temperature (K)	Black light blue	Black light white			Cool white



### QI

Product Code	J0013587	J0002850	J0003538	J0014722	J0014131
Watts (W)	100	150	300	500	1500
Voltage (V)	240				
Length (mm)	78	118	118	118	256
Dimmable	No				
Base	R7S				
Colour Temperature (K)	Warm white				



### MERCURY BLEND

Product Code	J0014990	J0014986	J0003291
Watts (W)	160	160	500
Voltage (V)	240		
Length (mm)	168	168	275
Dimmable	No		
Base	BC	ES	GES
Colour Temperature (K)	Warm white		



### MERCURY VAPOUR

Product Code	J0014988	J0013579	J0008506
Watts (W)	125	250	400
Voltage (V)	240	240	240
Length (mm)	168	226	285
Dimmable	No	No	No
Base	ES	GES	GES
Colour Temperature (K)	4200		



### SON-T

Product Code	J0003628	J0015008	J0008177
Watts (W)	250	400	1000
Voltage (V)	240		
Length (mm)	257	285	360
Dimmable	No		
Base	GES		
Colour Temperature (K)	Warm white		

# LIGHTING PRODUCTS

## LAMPS



### SON-E

Product Code	J0013578	J0015004
Watts (W)	250	400
Voltage (V)	240	
Length (mm)	226	290
Dimmable	No	
Base	GES	GES
Colour Temperature (K)	Warm white	



### METAL HALIDE TUBULAR

Product Code	J0013582	J0002790	J0015058
Watts (W)	250	400	1000
Voltage (V)	240		
Length (mm)	226	285	245
Dimmable	No		
Base	GES		
Colour Temperature (K)	Natural daylight		



### METAL HALIDE ELLIPTICAL

Product Code	J0015057	J0013585	J0003302	J0008176
Watts (W)	70	100	150	400
Voltage (V)	240			
Length (mm)	141	141	141	297
Dimmable	No			
Base	ES	ES	ES	GES
Colour Temperature (K)	Natural daylight			

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