SWITCHES



ENCLOSED ISOLATORS

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

Product Code	Supplier Code	Dimensions HxWxD	Rating A	kW	
	3 Pole				
L0001018	H216-41300-700N4		20	5.5	
L0001026	H220-41300-700N4	125 x 100 x 85	25	7.5	
L0001035	H226-41300-700N4		32	11	
L0001045	H233-41300-710N4	175 115 100	40	15	
L0001052	B263-41300-710N4	175 x 115 x 100	63	22	
3 Poles and Neutral					
L0001056	H406-41300-730N4		63	22	
L0001065	H408-41300-730N4	250 x 160 x 120	80	30	
L0001076	H410-41300-730N4		100	37	
		3 Poles and Auxiliary			
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 ٠ Protection rating: IP66

Product Code	Supplier Code	Dimensions HxWxD	Rating A	kW
3 Pole				
L0001017	H216-41300-281N4		20	5.5
L0001025	H220-41300-281N4	70 x 36 x 300	25	7.5
L0001034	H226-41300-281N4	70 x 38 x 300	32	11
L0001044	H233-41300-281N4		40	15
L0001051	B263-41300-281N4	72 x 50 x 300	63	22
L0001057	H406-41300-281N4		63	22
L0001066	H408-41300-281 N4	80 x 70 x 300	80	30
L0001077	H410-41300-281N4		100	37
L0001083	H412-41300-281N4	80 x 70 x 300	125	45

SWITCHES

salzer



PANEL MOUNT ISOLATORS

- ٠ 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		20	5.5	
L0001022	H220-41300-033M4	70 x 36 x 60	25	7.5	
L0001033	H226-41300-033M4	70 x 38 x 80	32	11	
L0001042	H233-41300-033M4		40	15	
L0001050	B263-41300-281M4	70 x 50 x 60	63	22	
-	H406-41300-033M4		63	22	
L0001063	H408-41300-033M4	00 70 75	80	30	
L0001074	H410-41300-033M4	80 x 70 x 75	100	37	
L0001082	H412-41300-033M4		125	45	



PANEL MOUNT ROTARY CAM SWITCHES

- Front mounting/two hole mounting 20mm
- With black handle Off-On
- ٠ 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		

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



SWITCHES



CHANGE-OVER SWITCHES WITH CENTRE OFF

Product Code	Supplier Code	Dimensions HxWxD	Rating A
		1 Pole	Runny A
L0001245	M220-61025-003M1		20
	M225-61025-003M1	48 x 48 x L	25
L0003209	T225-61025-003M1		32
	S432-61025-003M1		50
_	\$440-61025-003M1	64 x 64 x L	63
L0003169	\$606-61025-003M1		80
-	\$608-61025-003M1	88 x 88 x L	100
-	S612-61025-003M1		160
L0003197	\$825-61025-003M1	130 x 130 x L	315
		2 Pole	
L0001247	M220-61026-003M1		20
D0007405	M225-61026-003M1	48 x 48 x L	25
L0003210	T225-61026-003M1		32
	S432-61026-003M1		50
-	S440-61026-003M1	64 x 64 x L	63
10003170	S606-61026-003M1		80
L0003178	S608-61026-003M1	88 x 88 x L	100
L0003186	S612-61026-003M1		160
-	S825-61026-003M1	130 x 130 x L	315
		3 Pole	
L0001250	M220-61027-003M1		20
L0004271	M225-61027-003M1	48 x 48 x L	25
L0003211	T225-61027-003M1		32
L0001297	S432-61027-003M1		50
D0007417	S440-61027-003M1	64 x 64 x L	63
-	S606-61027-003M1		80
L0003180	S608-61027-003M1	 88 x 88 x L	100
L0003187	S612-61027-003M1		160
L0003198	\$825-61027-003M1	130 x 130 x L	315
		4 Pole	010
10001252	M220-61028-003M1		20
10003125	M225-61028-003M1	48 × 48 × L	25
10003123	T225-61028-003M1		32
10003212	\$432-61028-003M1		50
L0003134	S440-61028-003M1	64 x 64 x L	63
L0003172	S606-61028-003M1	 	80
L0003181	S608-61028-003M1	88 x 88 x L	100
D0007403	S612-61028-003M1	130 x 130 x L	315

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
	Reve	rsing 3 Phase	
L0001281	M220-61211-003M1	40 40 70	20
-	M225-61211-003M1	48 x 48 x 70	25
L0004263	T225-61211-003M1	40 40 75	32
-	\$432-61211-003M1	48 x 48 x 75	50
-	S440-61211-003M1	64 x 64 x 100	63
	2-Sp	beed 3 Phase	
L0001283	M220-61212-003M1	40 40 70	20
-	M225-61212-003M1	48 x 48 x 70	25
L0004244	T225-61212-003M1	48 x 48 x 75	32
-	\$432-61212-003M1	48 x 48 x 75	50
-	S440-61212-003M1	64 x 64 x 100	63
	Star I	Delta 3 Phase	
-	M220-61200-003M1	40 40 70	20
L0003123	M225-61200-003M1	48 x 48 x 70	25
L0003554	T225-61200-003M1	40 40 75	32
-	\$432-61200-003M1	48 x 48 x 75	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



Product Code	Supplier Code	Dimensions HxWxD	Rating A
	Reversing	g 3 Phase	
L0001281	M220-61211-003M1	48 x 48 x 70	20
-	M225-61211-003M1	48 x 48 x 70	25
L0004263	T225-61211-003M1	48 x 48 x 75	32
-	\$432-61211-003M1	48 x 48 x 75	50
-	S440-61211-003M1	64 x 64 x 100	63
	2-Speed	l 3 Phase	
L0001283	M220-61212-003M1	48 x 48 x 70	20
-	M225-61212-003M1	48 x 48 x 70	25
L0004244	T225-61212-003M1	48 x 48 x 75	32
-	S432-61212-003M1	46 x 46 x 75	50
-	\$440-61212-003M1	64 x 64 x 100	63
	Star Delt	a 3 Phase	
-	M220-61200-003M1	48 x 48 x 70	20
L0003123	M225-61200-003M1	48 x 48 x 70	25
L0003554	T225-61200-003M1	48 x 48 x 75	32
-	\$432-61200-003M1	40 x 40 X /J	50
-	\$440-61200-003M1	64 x 64 x 100	63

PANEL MOUNT MOTOR SWITCHES



PANEL MOUNT MOTOR SWITCHES

• Voltmeter switches				
Product Code	Supplier Code	Dimensions HxWxD	Rating A	
	4 Pc	sition		
-	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

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



ENCLOSED ISOLATORS





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

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



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
- 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
- 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 ACProtection rating: IP66

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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



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INDUSTRIAL PLUGS AND SOCKETS





BUSCH-DIN METAL CLAD

٠ Socket

• Wall mounted switch and interlocked (WACO System) •

Protection rating: IP44

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



BUSCH-DIN METAL CLAD

Epoxy-coated, cast-aluminium housing ٠

• Abrasion resistant ٠

High impact strength ٠

Protection rating: IP44

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



NOVA

•

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

Product Code	t Code Supplier Code Rating (A)		Pins P	Voltage (V)
A0000391	4084	16		200
A0000392	4085	25	3 + Earth	380



NOVA

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

Product Code	Supplier Code	Rating (A)	Pins P	Voltage (V)
L0001408	2384	16	2 L Farath	200
L0001409	2385	25	3 + Earth	380



INDUSTRIAL PLUGS AND SOCKETS



100

METAL CLAD 63A SOCKET OUTLET

- Wall mounted, switch and interlocked
- Switch socket outlet with earth leakage
- Device and isolator
- Technical details:
- ٠ 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

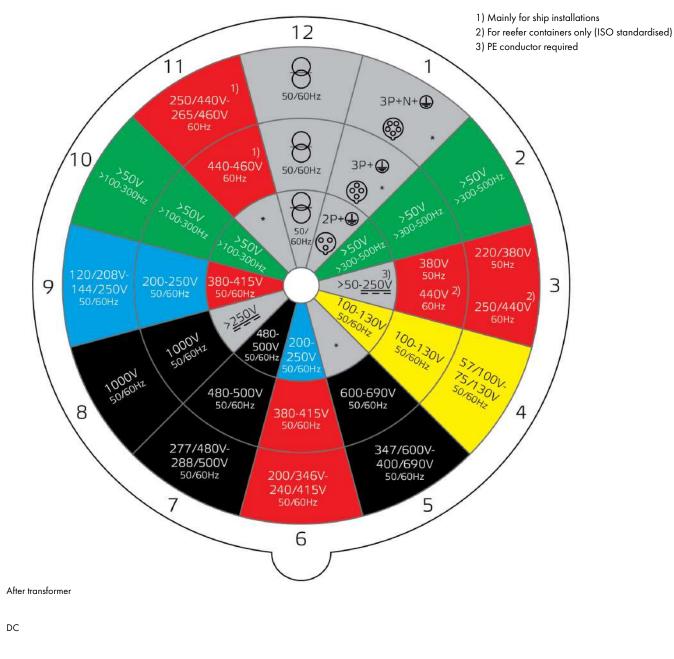
Product Code	Supplier Code	Rating (A)	Pins P	Voltage (V)				
3 Pins + Earth								
L0002575	1253646-COMBI	40	4	380				
L0002577	1253647-COMBI	63	4	500				
		3 Pins Neutral + Earth						
L0002578	1253656-COMBI	40	5	380				
L0002579	1253657-COMBI	63	5	500				



INDUSTRIAL PLUGS AND SOCKETS

= Bals

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.



* 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.



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INDUSTRIAL PLUGS AND SOCKETS

∃ Bals

			SOCKET - OUTLETS										
Ra Sp M	rotection ating Key alashpro = IP44 Vatertigh = IP67	y: of									0	0	
Volts	Amperes	No. of Pins	Panel Mo Socket-O Straight -	utlets -	Panel Ma Socket-C Angled -	Outlets -	Surface n Socket-O Unswitch	utlets -	Surface / Socket-C Switched	utlets -	Surface A Switched Interlock		Metal Clad Socket- Outlets
>	Am	No.	IP44	♦ IP67	IP44	♦ 1P67	IP44	♦ 1P67	IP44	♦ IP67	IP44	♦ IP67	IP55
	16A	3		83134				103134	112134		122134	123134	
7011	32A	3											
	63A	3											
>	16A	3	82136	83136	92136	93136	101136	103136	112136	113136		123136	
250'	32A	3	82336	83336	92336	93336	101336	103336	112336	113336	122336	123336	
200V-250V	63A	3		83636	92636	93636		103636					
ñ	125A	3											
		4	82146	83146	92146	93146	101146		112146	113146		123146	
	16A	5	82156	83156	92156	93156	101156	103156	112156	113156		123156	
		7	82176		92176	93176		103176					
2		4	Container Socket	83343				103343			Container Socket	123343	
-415	32A	4	82346	83346	92346	93346	101346	103346	112346	113346	122346	123346	
380V-415V		5	82356	83356	92356	93356	101356	103356	112356	113356	122356	123356	
		7	82376		92376								
	63A	4	82646	83646	92646	93646		103646					1253646
	034	5	82656	83656	92656	93656		103656					1253656
	125A	4				93846		103846				123846	
	1254	5				93856						123856	
	16A	4	82147	83147	92147	93147			112147	113147		123147	
		5											
525)	32A	4	82347	83347	92347			103347	112347	113347		123347	
500V (525)	63A	4				93647							1253647
500	054	5											1253657
	1254	4		83847								123847	
	125A	5										123857	

Caravan Inlets

Caravan and Marine Plugs and Sockets





INDUSTRIAL PLUGS AND SOCKETS

3 Bals

	P	PLUGTOP	PS .	APPLIANCE INLETS		COUPLERS							
0						1	•				DIN 4 VDE 0 IEC 60 SANS	lies wit 9462/6 0623 0309-1/ 1239 10142 60309	63
Surface Mounting Switch with Interlock	Straight F	Plugtops	Metal Clad Plugtops	Surface / Applianc (without	e Inlets	Panel Mo Appliance (without l	e Inlets	In-line Co (Couplers		Metal Clad Coplers	No. of Pins	Amperes	Volts
↓ IP67	IP44	IP67	IP55	IP44	IP67	IP44	♦ IP67	IP44	IP67	IP55	Pins	eres	ts
		203134									3	16A	
											3	32A	1107
											3	63A	
	201136	203136		272136		292136	293136	301136	303136		3	16A	20
	201336	203336		272336		292336		301336	303336		3	32A	0V -
	202636	203636					293636	302636	303636		3	63A	200V - 250V
		203836							303836		3	125A	<
	201146	203146		272146		292146	293146	301146	303146		4		
	201156	203156		272156	273156	292156		301156	303156		5	16A	
	201176							301176	303176		7		
	Container Plug	203343				Container Inlet	293343	Container Coupler	303343		4		ω
	201346	203346		272346		292346	293346	301346	303346	3053646	4	32A	80V
	201356	203356		272356	273356	292356	293346	301356	303356	3053656	5		380V - 415V
	201376	203376			273376			301376	303376		7		<
123646	202646	203646	2053646		273646		293646		303646	3053646	4	63A	
123656	202656	203656	2053656		273656		293656		303656		5	- 00/A	
		203846			273846		293846		303846		4	125A	
		203856			273856		293856		303856		5		
	201147	203147							303147		4	16A	
											5		50
	201347	203347							303347		4	32A	500V (525)
123647		203647	2053647						303647	3053647	4	63A	(525)
123657		203657	2053657						303657	3053657	5		
		203847			273847				303847		4	125A	
		203857									5		



- •
- 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 ٠
- ٠
- 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



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	
L0001102	007.PL		
L0001105	008.PL		
L0001108	009.PL	190 x 145 x 70	on lid
L0001112	2 010.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	



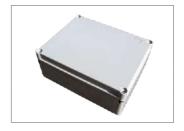
104

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	



ENCLOSURES





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

DISTRIBUTION BOXES

	Pr
	LO
0	LO

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.



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
			1



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.



ENCLOSURES



CARAVAN PARK DISTRIBUTION BOARDS



ts

- ٠ 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

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

Product Code	Cover	Dimensio	ns (mm)	Tray Dimensions (mm)		s (mm)	Description	
Product Code	н	w	D	н	w	D	Description	
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 ٠ •
 - Distribution board with poly base and cover

	Dimensions (mm)			Description
Product Code	н	w	D	Description
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 ٠ •
 - Available in electric orange and grey
- Material: sheet steel 1.4mm - 2.0mm (door CR64 onwards is 2.0mm)

Protection rating: IP55 ٠

Product Code (Grey)	Product Code (Orange)	Supplier Code	Dimensions HxWxD (mm)	Gland Plates	Locks
C0001196	L000030	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
-	L000038	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



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CT RANGE MILD STEEL ENCLOSURES

•	Protection rating: IP66	
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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.

ENCLOSURES





CRX RANGE STAINLESS STEEL ENCLOSURES

- ٠ 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 ٠
- 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

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E2S ELECTRONIC SOUNDERS





110

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		Cont	inuous		
Sound output		104 dB	(A) at 1m		
Sound frequency		340/2400Hz (depe	ends 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 - 11	10 x 110 x 90	Combo - 190	0 x 110 x 190	



ELECTRONIC SOUNDERS





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 cap be decreased by means of a volume control
- 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		Conti	inuous	
Sound output		112 dB(A) at 1 m	
Sound frequency		340/2400Hz (depe	nds 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			o - IP66
Weight (kg)	Sounder - 1 Combo - 1.2			
Packing dimensions (mm)	Sounder - 15	0 x 150 x 140	Combo - 150) x 220 x 150



ELECTRONIC SOUNDERS

Ce2S



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
10022503	ECY8R04	AL112 110VAC 800M RED
L0022504	ECY8A04	AL112 110VAC 800M AMBER
L0022505	ECY8R05	AL112 220VAC 800M RED
L0022506	ECY8A05	AL112 220VAC 800M AMBER

Specifications

opecifications				
Voltage	10-30 Vdc	24 Vac	110 Vac	220 Vac
Duty cycle		Conti	nuous	
Sound output		119 dB(/	A) at 1 m	
Sound frequency		340/2400Hz (depe	nds 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			o - IP66
Weight (kg)	Sounder - 2.1 Combo - 2.3			o - 2.3
Packing dimensions (mm)	Sounder - 200	0 x 200 x 160	Combo - 200) x 160 x 260



ELECTRONIC SOUNDERS





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 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		Conti	nuous	
Sound output		126 dB(A) at 1 m	
Sound frequency		340/2400Hz (depe	nds 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			o - IP66
Weight (kg)	Sounder - 2.7 Combo - 2.9			o - 2.9
Packing dimensions (mm)	Sounder - 220	0 x 220 x 220	Combo - 220) x 280 x 200



ELECTRONIC SOUNDERS

Ce2S

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E2S BEACONS



E2S XENON BEACONS

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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	EBXRO24	L101 24VDC RED
L0022521	EBXA110	L101 110VAC AMBER
L0022522	EBXR 110	L101 110VAC RED
L0022519	EBXA220	L101 220VAC AMBER
L0022520	EBXR220	L101 220VAC RED

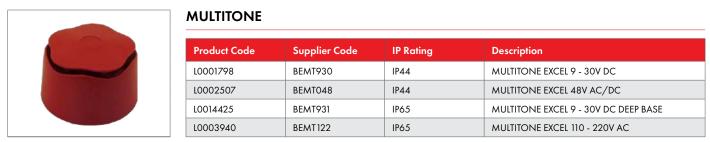
Specifications					
Voltage	12Vdc	24 Vac	110 Vac	220 Vac	
Colour LED		Red, amber, yellow, cle	ar, opal, blue and green		
Duty cycle	Continuous rated				
Light source		5 Joule Xenon @ 1Hz			
Current consumption	500mA	300mA	70mA	35mA	
IP rating	IP66				
Weight (g)	200				
Packing dimensions (mm)		100 x 10	00 x 100		



ELECTRONIC SOUNDERS

BANSHEE

BANSHEE ELECTRONIC SOUNDERS



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 10	00	



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 1 m/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	0	



MAINTENANCE CHEMICALS

CRC

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.

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.



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. Nonflammable, 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.

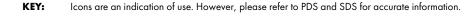
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CO CONTACT CLEANER

- 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.







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MAINTENANCE CHEMICALS





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



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Product Code: L0015669

PRECISION CLEANERS

• Supplier Code: 5185

DUSTER

- 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.

SMART WASHER®

Product Code: -

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



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: 14741
- Model Number: SW37
- Environmentally friendly heavy weight parts washer kit.
- Non-toxic, non-polluting, noncorrosive, non-flammable, nonhazardous

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



MAINTENANCE CHEMICALS

CRC

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.



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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 nonabrasive. 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.



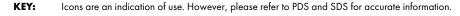


HYDRO-FORCE INDUSTRIAL STRENGTH DEGREASER

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 nonabrasive. 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.





WACO Natiral destrical distributor

MAINTENANCE CHEMICALS



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 nonabrasive. 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.







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 nonabrasive. 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.



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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. Nonstaining, 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, brakes shoes, callipers, clutch discs, disc brake pads, discs. Safe for use on all brake systems, including springs and wedge brakes.





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.



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



MAINTENANCE CHEMICALS

CRC

LUBRICANTS



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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.

Supplier Code: 92005 Plastic safe lubricant, penetrant and

current leakage.

stock, chucks.

corrosion inhibitor that helps prevent

condensation or corrosion. Restores

electrical malfunctions caused

by water penetration, humidity,

resistance values and helps stop

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



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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°Č.
- Applications: Recommended to lubricate fittings, bushings, flanges, headers, nuts, screws, studs, threaded surfaces, pipes, plugs and manifolds to prevent seizing and galling of surfaces.

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.





MAINTENANCE CHEMICALS

Product Code: -

Supplier Code: 3027



LUBRICANTS

KNOCK'ER LOOSE PLUS

PENETRATING SOLVENT

A unique penetrant that immediately

in contact with the spray. The freeze

shock action cracks rusted surfaces

allowing it to reach deeper and

drops the temperature of the area



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





work more effectively than other penetrants.

DRY PTFE LUBE

Product Code: L0000840

Supplier Code: 3044 Multi-purpose, micro-thin film

lubricant containing PTFE that

penetrates and bonds to most

while sealing out moisture.

surfaces including metal, wood,

rubber, plastic and glass. Prevents

sticking, reducing friction and wear,

Applications: Hinges, locks, catches,

pulleys, conveyors, machine parts,

chutes and slides, coin mechanisms,

window guides, drawers, rollers,

control buttons, switches, electrical

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 comealongs.



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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

wires and harnesses.

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.

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Note

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





MAINTENANCE CHEMICALS

CRC

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.

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.

StaLub

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, turnbuckles, wheel bearings, winches.

Note

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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.





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MAINTENANCE CHEMICALS

LUBRICANT

Product Code: L0000855

Supplier Code: 3076

An exceptional lubricant, with

a tough adhesive quality which

to keep them in peak operating

wear that causes metal fatigue.

Applications: Drive chains, open

seals, o-rings, and wire ropes.

gears, hoists, winches, pulleys, fork

lifts, rollers, garage doors, bushings,

will bond to chain/wear surfaces

condition by reducing friction and



LUBRICANTS

TAC 2[®] ADHESIVE CHAIN



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.







- 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.



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.





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Rust Converter

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 avard rails.

PROTECTION AND CORROSION INHIBITORS



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.



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MAINTENANCE CHEMICALS

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PROTECTION AND CORROSION INHIBITORS



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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.





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

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

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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.





MAINTENANCE CHEMICALS



SPECIALITY



HYDROFORCE GLASS CLEANER

Product Code: L0002738

• Supplier Code: 14412

- Cuts through dirt, dust, fingerprints and haze deposits. Provides streakfree 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.



MAINTENANCE CHEMICALS

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SPECIALITY



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Note

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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.

TACKLE GUARD

of storage.

Product Code: L0000862 Supplier Code: 6028 Cleans, lubricates, drives out moisture, prevents corrosion and protects tackle even through periods

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.



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Product Code: B0000083

LEAK DETECTOR

- 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.

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





MAINTENANCE CHEMICALS



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.

BATTERY TERMINAL

Product Code: L0000857

Supplier Code: 5046

soft protective coating.

Applications: Battery posts,

Specially designed to protect

battery terminals from corrosion, a

leading cause of hard starting and

battery failure. Provides a lead-free

terminals, hold-downs and casings

power supplies (UPS), and used for

computer, security and emergency

used in vehicles, boats, handling

equipment and uninterrupted

PROTECTOR



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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.

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 metalto-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

back-up systems.

- 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.



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MAINTENANCE CHEMICALS

CRC

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.



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MAINTENANCE CHEMICALS





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° value
- 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

FOOD GRADE LUBRICANTS

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.

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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.

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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 temparature 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 MULTIPURPOSE GREASE

Product Code: -

- Supplier Code: SL35605
- An aluminum complex premium grade USDA H1 grease for use in food production and processing industries. This NLGI Grade 2 multipurpose 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 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.



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INDUSTRIAL RELAYS





RMS-T RELAYS 2 AND 3 CONTACTS WITH INDICATION FLAG

Features:

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Universa	power relay for general applications	

Product Code	Supplier Code	Nominal Voltage	Pin	Атр	Changeover	
D0005514	RMS20L012DCOT	10)/DC	8		2	
D0005519	RMS30L012DCOT	12VDC	11		2	
D0005520	RMS30L024DCOT	24VDC	8		3	
D0005513	RMS20L012ACOT	12VAC]	
D0005515	RMS20L024ACOT	24VAC			10	2
D0005517	RMS20L120ACOT	120VAC		10		
D0005523	RMS30L230ACOT	22014.0	11		3	
D0005518	RMS20L230ACOT	230VAC	8		2	
D0005521	RMS20L048ACOT	48VAC	11		2	
D0005522	RMS20L120ACOT	120VAC	11		3	

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

Features:

٠ Miniature power relay for general applications

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

Note

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INDUSTRIAL RELAYS





SOCKETS/POWER RELAYS SM-T SOCKETS

Features:

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•	DIN rail (35	mm) or pane	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	<u>_</u>
D0005535	SQB31D10T0000		Grey
D0005536	SQB31D10T0000B	14	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 (UL94VO) 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 13WBCP	13 way test block back connected - polycarbonate
L000910	TTB 13WFCB	13 way test block front connected - bakelite
L000911	TTB 13 WFCP	13 way test block front connected - polycarbonate



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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	TTB4WBCP	4 way test block back connected - moulded bakelite



MINIATURE CIRCUIT BREAKERS



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		63	10
E0002666	E202/100r	2	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		63	10
E0001937	E203/80r	3	80	25
E0001935	E203/100r		100	25
E0002671	E203/125r		125	6



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		63	10
E0002673	E204/100r	4	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; ٠
- Protection for resistive and inductive loads with low inrush current
- Application:

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• 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		2	
E0001945	S201-C6		6	
E0001946	S201-C10		10	
E0001948	S201-C16		16	
E0001949	S201-C20		20	
E0001950	S201-C25	1	25	10
E0001951	S201-C32		32	
E0001952	S201-C40	-	40	
E0002688	\$201-C50		50	
E0002689	S201-C63		63	
E0001955	S201-C80		80	
E0001947	S201-C100		100	



MINIATURE CIRCUIT BREAKERS

ABB



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		6	
E0002700	S202-C10		10	
E0001957	S202-C16		16	
E0001958	S202-C20		20	
E0001959	S202-C25		25	
E0001960	S202-C32	2	32	10
E0002705	\$202-C40		40	
E0002706	\$202-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		6	
E0002708	S203-C10		10	
E0001961	S203-C16		16	
E0001962	S203-C20		20	
E0001963	S203-C25		25	
E0001964	S203-C32	3	32	10
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.



MINIATURE CIRCUIT BREAKERS

ABB

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	Rated Current (A)	Rated kA 230VAC
		(17.5mm)		(lcu)
E0010764	S201-D6		6	
E0010761	S201-D10		10	
E0010738	S201-D16		16	
E0010759	\$201-D20		20	-
E0010760	\$201-D25	1	25	10
E0010758	S201-D32		32	
E0010739	\$201-D40		40	
E0010763	\$201-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		6	
E0010742	S202-D10		10	
E0010745	S202-D16		16	
E0010740	\$202-D20		20	
E0010746	S202-D25	2	25	10
E0010747	S202-D32		32	
E0010748	S202-D40		40	
E0010744	\$202-D50		50	
E0010743	S202-D63		63	
	·			



MINIATURE CIRCUIT BREAKERS

ABB



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		6	
E0010756	S203-D10		10	
E0010755	S203-D16		16	
E0010751	S203-D20		20	
E0010754	S203-D25	3	25	10
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		6	
E0002691	\$201-C10NA	1 + Neutral	10	
E0002692	S201-C16NA		16	
E0002693	\$201-C20NA		20	
E0002694	\$201-C25NA		25	10
E0002695	S201-C32NA		32	
E0002696	\$201-C40NA		40]
E0002697	\$201-C50NA		50]



MINIATURE CIRCUIT BREAKERS

ABB



AUXILLARY CONTACT - SIDE MOUNTING

Function:

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- 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
E0002676	PS 1/60/16	16		busbar 60 way
E0002677	PS 3/60	10		3 phase insulated
E0002678	PS 3/60/16	16	3	busbar 60 way

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
- ٠ Protection against indirect contacts and additional protection against direct (with 1 n = 30mA) contacts
- Command and isolation of resistive and inductive circuits
- Application:

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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	20	10
E0001939	F202 AC - 100/0.03	2	100	30	10

MINIATURE CIRCUIT BREAKERS

ABB



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		63	20	10
E0002728	F204 AC - 100/0.03	4	100	30	10



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	DI	Weekly digital time switch 1 x CO, 6 year power reserve



MINIATURE CIRCUIT BREAKERS

ABB

SURGE PROTECTION DEVICES

Function:

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

ABB

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	o Unit - TMD	В	с	N
	In	lcu @ 415Vac = 18kA	lcu @ 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	1 SDA067413R1
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	В	c	N
	In	Icu @ 415Vac = 18kA	lcu @ 415Vac = 25kA	lcu @ 415Vac = 36kA
TMD	12 - 16A	1SDA066810R1	1 SDA080840R 1	1SDA080842R1
TMD	14 - 20A	1SDA066811R1	1SDA080841R1	1SDA080843R1
TMD	18 - 25A	1 SDA066812R1	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	1 SDA066819R 1	1SDA067407R1	1SDA067425R1
In N=50%	112 - 160A	1SDA066820R1	1SDA067408R1	1 SDA067426R 1
In N=100%	88 - 125A	1SDA066888R1	1SDA067409R1	1SDA067427R1
In N=100%	112 - 160A	1SDA066821R1	1SDA067410R1	1SDA067428R1



MOULDED CASE CIRCUIT BREAKERS

ABB



XT1D - SWITCH-DISCONNECTOR

Туре	lu	3 Poles	4 Poles
XT1D 160*	160A	1SDA068208R1	1SDA068209R1



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

Thermomagnetic Trip Unit - TMD		Ν	S
	In	Icu @ 415Vac = 36kA	lcu @ 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		N	S
	In	lcu @ 415Vac = 36kA	lcu @ 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

Туре	lu	3 Poles	4 Poles
XT3D 250*	250A	1SDA068210R1	1SDA068211R1

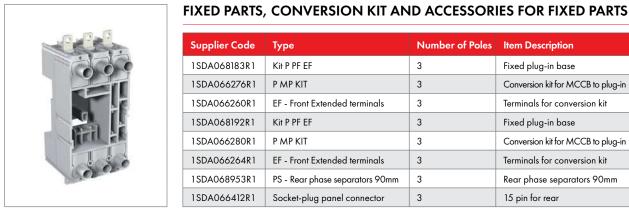
Note *The above disconnector rating is based on AC22 conditions.

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MOULDED CASE CIRCUIT BREAKERS

ABB



ACCESSORIES FOR MOULDED CASE CIRCUIT BREAKERS TMAX XT1 AND XT3

Number of Poles Item Description Supplier Code For use with Туре 1SDA068183R1 Kit P PF EF 3 Fixed plug-in base XT 1 P MP KIT 1SDA066276R1 3 Conversion kit for MCCB to plug-in XT 1 3 1SDA066260R1 EF - Front Extended terminals Terminals for conversion kit XT 1 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 3 15 pin for rear XT1/XT3 Socket-plug panel connector

SHUNT OPENING RELEASE - SOR

Supplier Code	Туре	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	Туре	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
1 SDA066400R1	UVR-C 380 - 440V AC	XT1/XT3
1SDA066401R1	UVR-C 480 - 525V AC	XT1/XT3



DELAY DEVICE FOR UNDER VOLTAGE RELEASE - UVD

Supplier Code	Туре	For Use With
1 SDA051357R1	UVD 24 - 30V AC/DC	XT1/XT3
1 SDA051360R1	UVD 110 - 125V AC/DC	XT1/XT3
1 SDA051361 R 1	UVD 220 - 250V AC/DC	XT1/XT3



MOULDED CASE CIRCUIT BREAKERS

ABB



AUXILIARY CONTACTS - AUX

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



MOTOR OPERATORS

Supplier Code	Туре	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	Туре	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	Ν	S	н	V
Trip Unit – TMA		lcu @ 415Vac = 36kA	lcu @ 415Vac = 50 kA	lcu @ 415Vac = 70 kA	lcu @ 415Vac = 200 kA
ТМА	350 - 500A	1SDA054456R1	1SDA054461R1	1SDA054465R1	1SDA054473R1



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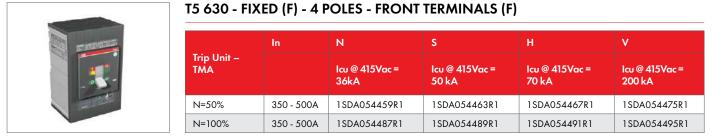
T5 630 - FIXED (F) - 3 POLES - FRONT TERMINALS (F)

Electronic Trip Unit	In	N Icu @ 415Vac = 36kA	S Icu @ 415Vac = 50 kA	H lcu @ 415Vac = 70 kA	V 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

ABB





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

	In	Ν	S	Н	٧
Electronic Trip Unit		lcu @ 415Vac = 36kA	lcu @ 415Vac = 50 kA	lcu @ 415Vac = 70 kA	lcu @ 415Vac = 200 kA
PR221DS-LS/I	252 - 630A	1SDA054400R1	1SDA054408R1	1SDA054416R1	1SDA054432R1
PR222DS/P-LSI	252 - 630A	1SDA054402R1	1SDA054410R1	1 SDA054418R 1	1 SDA054434R1



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

Туре	lcw	3 Poles	4 Poles
T5D 400	400A	1SDA054599R1	1SDA054600R1
T5D 630	630A	1SDA054601R1	1SDA054602R1



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

	In	N	S	н	L
Thermomagnetic Trip Unit – TMA		lcu @ 415Vac = 36kA	lcu @ 415Vac = 50 kA	lcu @ 415Vac = 70 kA	lcu @ 415Vac = 100 kA
ТМА	440 - 630A	1 SDA060202R 1	1 SDA060204R 1	1SDA060206R1	1SDA060208R1



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

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



MOULDED CASE CIRCUIT BREAKERS

ABB



Thermomagnetic Trip Unit – TMA	In	Ν	S	н	L
		lcu @ 415Vac = 36kA	lcu @ 415Vac = 50 kA	lcu @ 415Vac = 70 kA	lcu @ 415Vac = 100 kA
N=50%	441 - 630A	1SDA060203R1	1SDA060205R1	1SDA060207R1	1SDA060209R1
N=100%	441 - 630A	1SDA060210R1	1SDA060211R1	1 SDA060212R 1	1 SDA060213R1

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



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

In In		N	S	Н	L
Electronic Trip Unit		lcu @ 415Vac = 36kA	lcu @ 415Vac = 50 kA	lcu @ 415Vac = 70 kA	lcu @ 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 FP EF	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 FP EF	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



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SHUNT OPENING RELEASE

Supplier Code	Description	For Use With
1SDA054870R1	SOR-C 24 - 30V AC/DC	Т4/Т5/Т6
1SDA054872R1	SOR-C 110 - 127V AC / 110 - 125V DC	T4/T5/T6
1SDA054873R1	SOR-C 220 - 240V AC /220 - 250V DC	Т4/Т5/Т6
1SDA054874R1	SOR-C 380 - 440V AC	T4/T5/T6
1SDA054875R1	SOR-C 480 - 525V AC	Т4/Т5/Т6
1SDA062065R1	SOR-C 24 - 30V AC/DC	Т7/Т7М
1SDA062069R1	SOR-C 110 - 120V AC/DC	т7/т7м
1SDA063548R1	SOR-C 220 - 240V AC/DC	T7/T7M
1SDA062071R1	SOR-C 380 - 440V AC	T7/T7M

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MOULDED CASE CIRCUIT BREAKERS

ABB



SHUNT CLOSING RELEASE

Supplier Code	Description	For Use With
1SDA062076R1	SCR-C 24 - 30V AD/DC	T7M
1 SDA062080R1	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	Т4/Т5/Т6
1 SDA054890R1	UVR-C 110 - 127V AC / 110 - 125V DC	Т4/Т5/Т6
1SDA054891R1	UVR-C 220 - 240V AC/220 - 250V DC	T4/T5/T6
1 SDA054892R1	UVR-C 380 - 440V AC	Т4/Т5/Т6
1 SDA054893R1	UVR-C 480 - 525V AC	Т4/Т5/Т6
1 SDA062087R1	UVR-C 24 - 30V AC/DC	Т7/Т7М
1SDA062091R1	UVR-C 110 - 120V AC/DC	т7/т7м
1 SDA063552R1	UVR-C 220 - 240V AC/DC	Т7/Т7М
1SDA062093R1	UVR-C 380 - 440V AC	T7/T7M



DELAY DEVICE UNDER VOLTAGE RELEASE

Supplier Code	Description	For Use With
1 SDA051357R1	UVD 24 - 30V AC/DC	Т4/Т5/Т6
1 SDA051360R1	UVD 110 - 125V AC/DC	T4/T5/T6
1SDA051361R1	UVD 220 - 250V AC/DC	T4/T5/T6
1 SDA038316R 1	UVD 24 - 30V AC/DC	Т7/Т7М
1 SDA038319R1	UVD 110 - 125V AC/DC	Т7/Т7М
1 SDA038320R1	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	Т4/Т5/Т6
1SDA062102R1	AUX 2Q 400V AC	Т7/Т7М
1SDA062101R1	AUX 2Q 24V AC	T7/T7M
1SDA063553R1	AUX-SA 1 S51 T7 - T7M 250V	Т7М



3 POLE BLOCK CONTACTORS

ABB



AF09



AF 12



AF38







Surge Suppressors

Contactors Varistor (AC/DC)

RC Type (AC) Transil Diode (DC)

3 POLE CONTACTORS, FOR MOTOR CONTROL AND POWER SWITCHING

AC / DC Control Supply		Туре	AF09	AF12	AF16	AF26	AF30	AF38	AF40	AF52	AF65	
	220 - 230 - 240V	kW	2.2	3	4	6.5	9	11	11	15	18.5	
IEC AC-3 Rated	380 - 400V	kW	4	5.5	7.5	11	15	18.5	18.5	22	30	
Operational Power	415V	kW	4	5.5	9	11	15	18.5	22	30	37	
0 ≤ 60°C for AF09- AF370	440V	kW	4	5.5	9	15	18.5	22	22	30	37	
0 ≤ 55°C for AF400-	500V	kW	5.5	7.5	9	15	18.5	22	22	30	37	
AF2650	690V	kW	5.5	7.5	9	15	18.5	22	22	30	37	
	1000V	kW	-	-	-	-	-	-	11 15 18.5 22 22 30 22 30 22 30 22 30 22 30 22 30 22 30 22 30 22 30 22 30 22 30 22 30 22 30 40 53 70 100 3 3 7.5 10 10 15 15 20 30 40 40 50 60 80 2 -	-		
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	120V	hp	0.75	1	1.5	2	2	2	3	3	5	
Motor Rating	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	
	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 c		for AF80 AF400-A				50 cont	actors.				
Main Accessories												
Auxiliary Contact	Front Mounting											
Blocks	Side Mounting							CAL4-	11(1 x N	.0.+1>	(N.C.)	
Timers	Electronic											
	Mechanical					٧٨	٨4					
Interlocking Units (3)	Mechanical / Electrical					VE	M4		18.5 22 30 1 22 30 1 22 30 1 22 30 1 22 30 1 22 30 1 22 30 1 22 30 1 22 30 1 40 53 1 70 100 1 3 3 1 7.5 10 1 10 15 20 30 40 1 40 50 1 60 80 1 2 - 1 11(1 x N.O. + 1 x N TEF4- YMY96-4 YMY6-4			
Connection Sets	For Reversing		BER16-4			BE	R 38-4		BEI	TEF4-C TEF4-C VM96-4		

(3) See available reversing contactors VB6, VB7 and VAS09-VAS16.

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3 POLE BLOCK CONTACTORS

ABB





AF96



AF 116

AF140



AF190



AF265



AC/DC Control Supply		Туре	AF80	AF96	AF116	AF140	AF146	AF190	AF205	AF265	AF305	AF370
	220 - 230 - 240V	kW	22	25	30	37	45	55	55	75	90	110
IEC AC-3 Rated	380 - 400V	kW	37	45	55	75	75	90	110	132	160	200
Operational Power	415V	kW	45	55	55	75	75	90	110	132	160	200
0 ≤ 60°C for AF09- AF370	440V	kW	45	55	75	90	90	110	132	160	160	200
0 ≤ 55°C for	500V	kW	45	55	75	90	90	110	132	160	200	250
AF400- AF2650	690V	kW	45	55	55	75	90	132	160	200	250	315
	1000V	kW	35	40	-	-	75	110	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	120V	hp	7.5	7.5	-	-	-	-	-	-	-	-
Motor Rating	240V	hp	15	20	-	-	-	-	-	-	-	-
	200 - 208V	hp	25	30	30	40	40	50	60	75	100	125
3-Phase Motor	220 - 240V	hp	30	30	40	50	50	60	75	100	125	150
Rating	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 rating		uble for A °C AF40				-AF265	0 contac	ctors.			
Main Accessories												
Auxiliary Contact	Front Mounting	CA4-	CA4-10(1 x N.O.) CA4-01(1 x N.C.)									
Blocks	Side Mounting	CALI	9-11 (1 :	x N.O. +	+ 1 x N.(C.)						
Timers	Electronic											4-0N 4-0FF
	Mechanical			VM96-4	1			VM 19 (for same	e size co	ntactors)
Interlocking Units (3)	Mechanical/ Electrical											
Connection Sets	For Reversing Contactors	BER96-4 BER140-4 BER205-4 BE						BER	370-4			
Surge Suppressors				Bu	uilt-in sur	ge prote	ction					
	(3) See avail	able rev	ersing co	ontactor	s VB6, V	B7 and	VAS09-	VAS16.				

3 POLE CONTACTORS, FOR MOTOR CONTROL AND POWER SWITCHING



3 POLE BLOCK CONTACTORS

ABB





150

AC / DC Control Supply		Туре	AF400	AF460	AF580	AF750	AF1250	AF1350	AF1650	AF2050	AF2650
	220 - 230 - 240V	kW	110	132	160	220	-	257	315	-	-
IEC AC-3 Rated	380 - 400V	kW	200	250	315	400	-	475	560	-	-
Operational Power	415V	kW	220	250	355	425	-	500	630	-	-
0 ≤ 60°C for AF09-AF370	440V	kW	220	250	355	450	-	560	710	-	-
$0 \le 55^{\circ}C$ for	500V	kW	250	315	400	520	-	560	710	-	-
AF400-AF2650	690V	kW	315	355	500	600	-	800	1000	-	-
	1000V	kW	220	280	355	400	-	-	-	-	-
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	120V	hp	-	-	-	-	-	-	-	-	-
Motor Rating	240V	hp	-	-	-	-	-	-	-	-	-
3-Phase Motor	200 - 208V	hp	125	150	200	250	-	-	-	-	-
	220 - 240V	hp	150	200	250	300	-	400	450	-	-
Rating	440 - 480V	hp	350	400	500	600	-	800	900	-	-
	550 - 600V	hp	400	500	600	700	-	1000	1150	-	-
General Use Rating	600V	А	550	650	750	900	1210	1350	1650	2100	2700
NEMA Size			-	6	-	7	-	-	8	-	-
"1000 V IEC ra	tings available for AF8	0, AF96	and AF14	46-AF26	50 conta	ctors. ≤	55 °C A	F400-AF	2650 со	ntactors."	
Main Accessories											
Auxiliary Contact	Front Mounting										
Blocks	Side Mounting							CAL18-	11 (1 x N	1.0. + 1 ;	k N.C.)
Timers	Electronic										
Interlocking Units	Mechanical	VM750 VM750						VM1650H			
(3)	Mechanical / Electrical										
Connection Sets	For Reversing Contactors	BEM4	60-30		BEM750-30						
Surge Suppressors		1		Built-	in surge p	protection	1				
	(3) See availe	able reve	rsing con	tactors V	B6, VB7	and VAS	09-VAS1	6.			

3 POLE CONTACTORS, FOR MOTOR CONTROL AND POWER SWITCHING



3 POLE BLOCK CONTACTORS

ABB



3 POLE CONTACTORS, FOR MOTOR CONTROL AND POWER SWITCHING

				0	verload	Relays					
Thermal Relays	Class 10 (Class 10A for TF140, TA200DU)	TF42 (0.1	0-38A)	TF65 (22- 67A)	TF96 (40- 96A)	TF140DU (66- 142A) 0≤55°C	TA200DU (66- 200A) 0≤55°C				
Electronic Relays Class 10E, 20E, 30E	Class 10E, 20E, 30E	EF 19 (0.10-18.9 A)	EF 19 (0.10-18.9 A) EF 45 (9-45 A)	EF65 (20- 70A)	EF96 (36- 100A)	EF 146 (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) Ics up to 50 kA									
		MS495 (45-100A) lcs up to 50kA										
	MS132 (0.10-32A) lcs up to 100kA		MS497 (22-100A) Ics up to 100kA									
Magnetic Only Types	MO132 (0.16-32 A) Ics up to 100kA	MO165 (16-65A) lcs up to 100kA	MS497 (22-100A) lcs up to 100kA									
			MO495 (63-100A) Ics 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.									



(J) BEA0J-4 suitable for MST0J and MOT0J only.
Short-circuit Protection Devices

MCCB and Switch-fuses



3 POLE BLOCK CONTACTORS

ABB

MAIN ACCESSORIES FOR AF CONTACTOR RANGE

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ADDITIONAL AUXILIARY CONTACT BLOCKS

Product Code	Supplier Code	For Contactors	Туре	Auxiliary Contacts						
	Front-mounted	Instantaneous Auxiliary	y Contact Blocks							
D0003572	1SBN010110R1010	AF09 - AF96	CA4-10	10						
D0003571	1SBN010110R1001	AF09 - AF96	CA4-01	01						
-	1SBN010110T1001	AF09 - AF96	CA4-10-T	10						
-	1SBN010140R112	AF09 - AF96	CA422M	2 2						
D0015543	1SBN010140R1022	AF26 - AF38	CA4-22E	2 2						
-	1SBN010140R1322	AF09 - AF16	CA4-22U	2 2						
Front-mounted Inst	antaneous Auxiliary Co	ontact Blocks with N.O	Leading Contact and N	.C. Lagging Contact						
-	1SBN010111R1010	4500 4507	CC4-10	10						
-	1SBN010111R1001	AF09 - AF96	CC4-01	01						
Side-mounted Instantaneous Auxiliary Contact Blocks										
D0018826	ISBN010120R1011	AF09 - AF96	CAL4-11	1.1						
-	ISBN010120T1011	AFU9 - AF96	CAL4-11-T	11						
Front-mounted Instantaneous Auxiliary Contact and A1/A2 Coli Terminal Blocks										
-	1SBN010151R1111	AF09 - AF96	CAT4-11 M							
-	1SBN010151R1011	AF26 - AF96	CAT4-11-E	11						
-	1 SBN010151 R 1311	AF09 - AF96	CAT4-11U							
	Interlo	cks - Mechanical Interla	ock Unit							
-	1SBN03015T1000	AF09 - AF38	VM4	Note Vm4 includes 2 fixing clips (BB4) to maintain together both contactors						
	Mechar	nical and Electrical Inter	lock Set							
D0003610	1SBN030111R1000	AF09 - AF38	VEM4	0 2						
		fixing clips (Bb4), z Ve4 el espect the electrical connec								
	Connecti	on Sets For Reversing C	ontactors							
D0003567	1SBN081311R1000	AF09 - AF16	BER 16-4	-						
D0003568	1SBN082311R1000	AF26 - AF38	BER38-4	-						

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



CONTACTORS AND CONTACTOR RELAYS

ABB



AF09



AF12



AF38

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 projective of the sector of the se
- 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 Uc min-Uc 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

Product Code	Supplier Code	EC Rated Power	Туре	Control Voltag Uc Min	e Uc Max		iliary ts Fitted
		400V AC-3 kW	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	V 50/60 Hz	V DC	NO	NC
D0003566	1 SBL 137001 R 1110		AF09-30-10-11	24 - 60	20 - 60		
D0002758	1 SBL 137001 R 1210	4	AF09-30-10-12	48 - 130	48 - 130		
D0002759	1 SBL 137001 R 1310		AF09-30-10-13	100 - 250	100 - 250		
D0003550	1SBL157001R1110		AF12-30-10-11	24 - 60	20 - 60		
D0003547	1 SBL 157001 R 1210	5.5	AF12-30-10-12	48 - 130	48 - 130	1	0
D0003548	1 SBL157001 R 1310	-	AF12-30-10-13	100 - 250	100 - 250		
D0003554	1 SBL 177001 R 1110		AF16-30-10-11	24 - 60	20 - 60		
D0003551	1 SBL 177001 R 1210	7.5	AF16-30-10-12	48 - 130	48 - 130		
D0003552	1 SBL 177001 R 1310		AF16-30-10-13	100 - 250	100 - 250		
D0003558	1 SBL237001 R 1100		AF26-30-00-11	24 - 60	20 - 60		
D0003555	1 SBL237001 R 1200	11	AF26-30-00-12	48 - 130	48 - 130		
D0005556	1 SBL237001 R 1300		AF26-30-00-13	100 - 250	100 - 250		
D0003562	1 SBL277001 R 1100		AF30-30-00-11	24 - 60	20 - 60		
D0003559	1 SBL277001 R 1200	15	AF30-30-00-12	48 - 130	48 - 130	0	0
D0003560	1 SBL277001 R 1300		AF30-30-00-13	100 - 250	100 - 250		
D0005542	1 SBL297001 R 1100		AF38-30-00-11	24 - 60	20 - 60		
D0004979	1 SBL297001 R 1200	18.5	AF38-30-00-12	48 - 130	48 - 130		
D0004978	1 SBL 297001 R1300		AF38-30-00-13	100 - 250	100 - 250		



CONTACTORS AND CONTACTOR RELAYS

ABB

		IEC		UL/CSA							
Product Code	Supplier Code			3-phase Motor Rating	General Use Rating 600 V AC	Voltage	ntrol Circuit Uc Max	Auxiliary Contacts Fitted		Туре	
		(kW)	(A)	(hp)	(A)	V50/60 Hz	V DC				
-	1SBL347001R1100					24 - 60	20 - 60	0	0	AF40-30-00-	
-	1 SBL347001 R 1200	10.5	70	30		48 - 130	48 - 130	0	0	AF40-30-00-	
D0003537	1 SBL347001 R 1300	18.5	70	50	60	100 - 250	100 - 250	0	0	AF40-30-00-	
-	1SBL347001R1400					250 - 500	250 - 500	0	0	AF40-30-00-	
D0020120	1 SBL367001 R 1100					24 - 60	20 - 60	0	0	AF52-30-00-	
D0015761	1 SBL367001 R 1200	22	100	10		48 - 130	48 - 130	0	0	AF52-30-00-	
D0004980	1 SBL367001 R 1300		100	40	80	100 - 250	100 - 250	0	0	AF52-30-00-	
D0019390	1SBL367001R1400					250 - 500	250 - 500	0	0	AF52-30-00-	
D0018847	1 SBL387001 R 1100		105	50	90	24 - 60	20 - 60	0	0	AF65-30-00-	
-	1 SBL387001 R 1200	30				48 - 130	48 - 130	0	0	AF65-30-00-	
D0018845	1 SBL387001 R 1300	30				100 - 250	100 - 250	0	0	AF65-30-00-	
D0018846	1SBL387001R1400					250 - 500	250 - 500	0	0	AF65-30-00-	
-	1SBL397001R1100					24 - 60	20 - 60	0	0	AF80-30-00-	
-	1 SBL397001 R 1200	37	125	60	105	48 - 130	48 - 130	0	0	AF80-30-00-	
D0004981	1 SBL397001 R 1300	37	125	00	105	100 - 250	100 - 250	0	0	AF80-30-00-	
-	1SBL397001R1400					250 - 500	250 - 500	0	0	AF80-30-00-	
-	1 SBL407001 R 1100					24 - 60	20 - 60	0	0	AF96-30-00-	
-	1 SBL407001 R 1200	45	130	40	115	48 - 130	48 - 130	0	0	AF96-30-00-	
D0004982	1 SBL407001 R 1300	40	130	60	115	100 - 250	100 - 250	0	0	AF96-30-00-	
-	1SBL407001R1400					250 - 500	250 - 500	0	0	AF96-30-00-	

AF40 - AF96 3 POLE CONTACTORS

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

AF96

CONTACTORS AND CONTACTOR RELAYS

ABB



AF 116



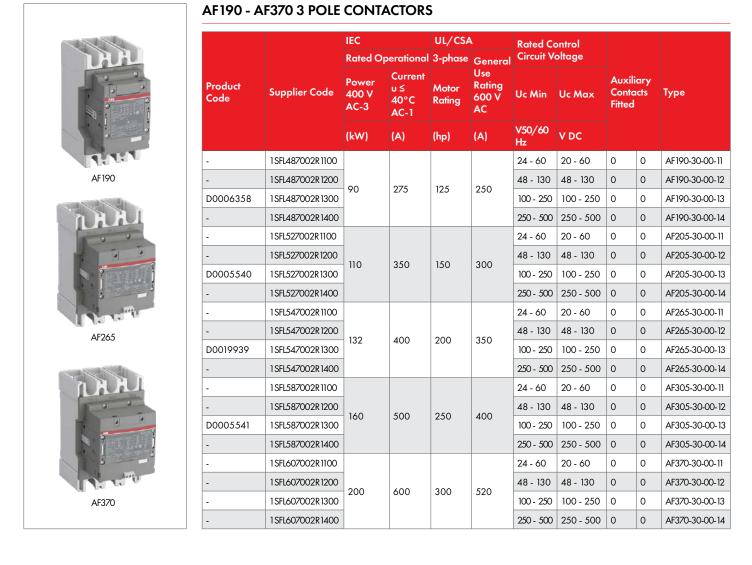
	IEC		UL/CSA							
Supplier Code	Rated Operational Power Current 400 V u ≤ 40°C		3-phase Motor Rating	General Use Rating 600 V	Rated Control Circuit Voltage		Auxiliary Contacts Fitted		Туре	
	AC-3	AC-1		AC	Uc Min	Min Uc Max		2		
	(kW)	(A)	(hp)	(A)	V50/60 Hz	V DC				
1SFL427001R1100					24 - 60	20 - 60	0	0	AF116-70-00	
1 SFL427001 R 1200		160	75	160	48 - 130	48 - 130	0	0	AF116-70-00	
1 SFL427001 R 1300	55	160		160	100 - 250	100 - 250	0	0	AF116-70-00	
1 SFL427001 R 1400					250 - 500	250 - 500	0	0	AF116-70-00	
1SFL447001R1100					24 - 60	20 - 60	0	0	AF140-30-00	
1 SFL447001 R 1200	75	000			48 - 130	48 - 130	0	0	AF140-30-00	
1 SFL447001 R 1300	- 75	200	100	200	100 - 250	100 - 250	0	0	AF140-30-00	
1 SFL447001 R 1400					250 - 500	250 - 500	0	0	AF140-30-00	
1SFL467001R1100					24 - 60	20 - 60	0	0	AF146-30-00	
1 SFL467001 R 1200	75	005	100	000	48 - 130	48 - 130	0	0	AF146-30-00	
1 SFL467001 R 1300	75	225	100	200	100 - 250	100 - 250	0	0	AF146-30-00	
1 SFL467001 R 1400	1				250 - 500	250 - 500	0	0	AF146-30-00	

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



CONTACTORS AND CONTACTOR RELAYS

ABB



Note

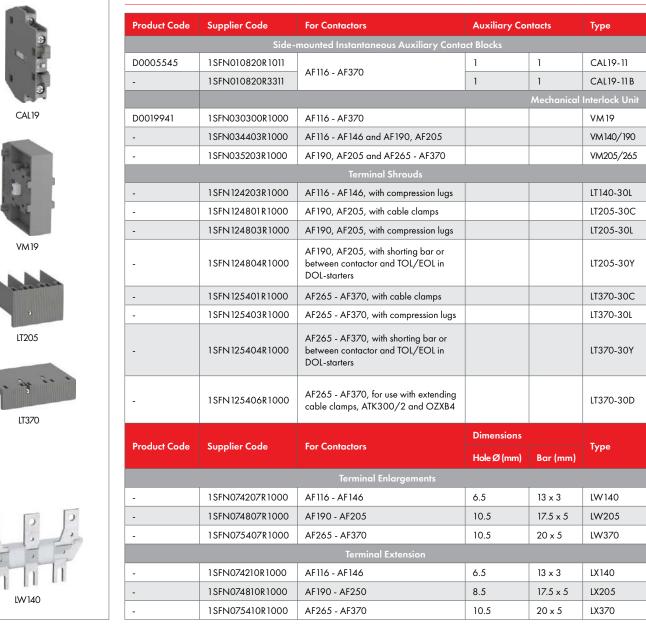
156

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



CONTACTORS AND CONTACTOR RELAYS

ABB



AF116 - AF370 - 3 POLE CONTACTORS MAIN ACCESSORIES

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



CONTACTORS AND CONTACTOR RELAYS

ABB



AF09



AF38

		IEC	UL/CSA	Rated Cor Circuit Vo				
				Uc Min	Uc Max	Auxili	iary	
Product Code	Supplier Code	Rated Operational Current $u \le 40^{\circ}C AC-1$ (A)	General Use Rating 600 V AC (A)	V 50/60 Hz	V DC	Contacts Fitted		Туре
			4 N.O. Main I	Poles				
-	1 SBL 137201 R 1100			24 - 60	20 - 60	0	0	AF09-40-00-11
-	1 SBL 137201 R 1200	25	25	48 - 130	48 - 130	0	0	AF09-40-00-12
-	1 SBL 137201 R 1300	25	25	100 - 250	100 - 250	0	0	AF09-40-00-13
-	1 SBL 137201 R 1400			250 - 500	250 - 500	0	0	AF09-40-00-14
-	1 SBL 177201 R 1100			24 - 60	20 - 60¹	0	0	AF16-40-00-11
-	1 SBL 177201 R 1200	30	30	48 - 130	48 - 130	0	0	AF16-40-00-12
-	1 SBL 177201 R 1300	30	30	100 - 250	100 - 250	0	0	AF16-40-00-13
-	1 SBL 177201 R 1400			250 - 500	250 - 500	0	0	AF16-40-00-14
-	1SBL237201R1100			24 - 60	20 - 60¹	0	0	AF26-40-00-41
-	1 SBL237201 R 1200	45	45	48 - 130	48 - 130	0	0	AF26-40-00-12
D0019927	1SBL237201R1300	45	45	100 - 250	100 - 250	0	0	AF26-40-00-13
-	1SBL237201R1400			250 - 500	250 - 500	0	0	AF26-40-00-14
-	1SBL297201R1100			24 - 60	20 - 60¹	0	0	AF38-40-00-11
-	1 SBL297201 R 1200			48 - 130	48 - 130	0	0	AF38-40-00-12
D0019928	1 SBL297201 R 1300	55	55	100 - 250	100 - 250	0	0	AF38-40-00-13
-	1SBL297201R1400			250 - 500	250 - 500	0	0	AF38-40-00-14
		2 N.	O. + 2 N.C. M	ain Poles				
-	1 SBL 137501 R 1100			24 - 60	20 - 60	0	0	AF09-22-00-11
-	1 SBL 137501 R 1200	25	25	48 - 130	48 - 130	0	0	AF09-22-00-12
-	1 SBL 137501 R 1300	25	25	100 - 250	100 - 250	0	0	AF09-22-00-13
-	1 SBL 137501 R 1400			250 - 500	250 - 500	0	0	AF09-22-00-14
-	1 SBL 177501 R 1100			24 - 60	20 - 60¹	0	0	AF16-22-00-11
-	1 SBL 177501 R 1200	30	30	48 - 130	48 - 130	0	0	AF16-22-00-12
-	1 SBL 177501 R 1300	30	30	100 - 250	100 - 250	0	0	AF16-22-00-13
-	1 SBL 177501 R 1400			250 - 500	250 - 500	0	0	AF16-22-00-14
-	1SBL237501R1100			24 - 60	20 - 60¹	0	0	AF26-22-00-11
-	1 SBL237501 R 1200	45	45	48 - 130	48 - 130	0	0	AF26-22-00-12
-	1 SBL237501 R 1300	45	45	100 - 250	100 - 250	0	0	AF26-22-00-13
-	1 SBL237501 R 1400			250 - 500	250 - 500	0	0	AF26-22-00-14
-	1SBL297501R1100			24 - 60	20 - 60¹	0	0	AF38-22-00-11
-	1 SBL297501 R 1200	5.5	<i>E E</i>	48 - 130	48 - 130	0	0	AF38-22-00-12
-	1SBL297501R1300	55	55	100 - 250	100 - 250	0	0	AF38-22-00-13
-	1 SBL297501 R1400			250 - 500	250 - 500	0	0	AF38-22-00-14

AF09 - AF38 - 4 POLE CONTACTORS

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

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

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

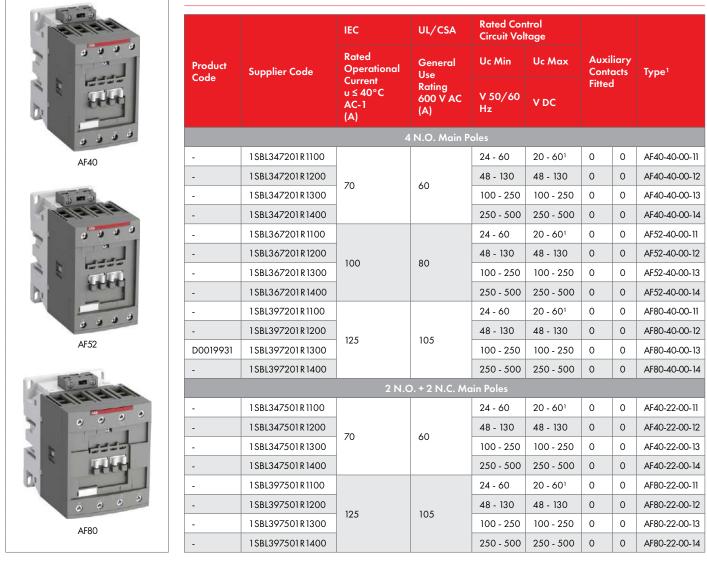
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CONTACTORS AND CONTACTOR RELAYS

ABB



AF40 - AF80 4 POLE CONTACTORS

Note 1AF-11 not suitable for direct control by PLC-output.

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



CONTACTORS AND CONTACTOR RELAYS

ABB



B6



B7

	IEC		UL/CS/	UL/CSA		Rated Control Circuit Voltage Uc		
Supplier Code	Rated Operational Power 400 V AC-3	Current 8 ≤ 40°C AC-1	3- phase Motor Rating	General Use Rating	50 Hz V AC	60 Hz V AC		iliary tacts d
	(kW)	(A)						
			3 Pole	AC Operate	d B6			
GJL1211001 R0101	4	20	3	300V/12A	24	24	1	0
GJL1211001 R0011	4	20	3	300V/12A	24	24	0	1
GJL1211001 R0102	4	20	3	300V/12A	42	42	1	0
GJL1211001 R0012	4	20	3	300V/12A	42		0	1
GJL1211001 R0103	4	20	3	300V/12A	48	48	1	0
GJL1211001 R0013	4	20	3	300V/12A	40		0	1
GJL1211001 R8104	4	20	3	300V/12A	110 - 127	110 - 127	1	0
GJL1211001 R8014	4	20	3	300V/12A	110 - 127		0	1
GJL1211001 R8100	4	20	3	300V/12A	220 - 240	220 - 240	1	0
GJL1211001 R8010	4	20	3	300V/12A	220 - 240		0	1
GJL1211001 R8105	4	20	3	300V/12A	380 - 415	380 - 415	1	0
GJL1211001 R8015	4	20	3	300V/12A	300 - 413	360 - 415	0	1
3 Pole AC Operated B7								
GJL1311001 R0101	5.5	20	5	600V/16A	24	24	1	0
GJL1311001 R0011	5.5	20	5	600 V / 16 A	24	24	0	1

MINI CONTACTORS

GJL1311001 R0102

GJL1311001 R0012

GJL1311001 R0103

GJL1311001 R0013

GJL1311001 R8104

GJL1311001 R8014

GJL1311001 R8100

GJL1311001 R8010

GJL1311001 R8105

GJL1311001 R8015

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5

600V/16A

42

48

110 - 127

220 - 240

380 - 415



Туре

B6-30-10-01

B6-30-01-01 B6-30-10-02

B6-30-01-02 B6-30-10-03

B6-30-01-03 B6-30-10-84

B6-30-01-84

B6-30-10-80

B6-30-01-80

B6-30-10-85

B6-30-01-85

B7-30-10-01

B7-30-01-01

B7-30-10-02

B7-30-01-02

B7-30-10-03

B7-30-01-03

B7-30-10-84

B7-30-01-84

B7-30-10-80

B7-30-01-80

B7-30-10-85

B7-30-01-85

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110 - 127

220 - 240

380 - 415

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CONTACTORS AND CONTACTOR RELAYS

ABB



BC6



BC7

	IEC		UL/CSA	\	Rated Control Circuit Voltage Uc			
Supplier Code	Rated Operational Power 400 V AC-3	Current 8 ≤ 40°C AC-1	3- phase Motor Rating	General Use Rating	50 Hz V AC		iliary tacts d	Туре
	(kW)	(A)						
			3 Pole D	C Operated B6				
GJL1213001R0107	4	20	3	300V/12A	12	1	0	BC6-30-10-07
GJL1213001 R0017	4	20	3	300V/12A		0	1	BC6-30-01-07
GJL1213001 R0101	4	20	3	300V/12A	24	1	0	BC6-30-10-01
GJL1213001 R0011	4	20	3	300V/12A	24	0	1	BC6-30-01-01
GJL1213001R1106	4	20	3	300V/12A	48	1	0	BC6-30-10-16
GJL1213001R1016	4	20	3	300 V / 12 A	40	0	1	BC6-30-01-16
GJL1213001 R0103	4	20	3	300 V / 12 A	60	1	0	BC6-30-10-03
GJL1213001 R0013	4	20	3	300V/12A		0	1	BC6-30-01-03
GJL1213001 R0104	4	20	3	300V/12A	110 105	1	0	BC6-30-10-04
GJL1213001 R0014	4	20	3	300V/12A	110 - 125	0	1	BC6-30-01-04
GJL1213001 R0105	4	20	3	300V/12A	220 - 240	1	0	BC6-30-10-05
GJL1213001 R0015	4	20	3	300V/12A		0	1	BC6-30-01-05
3 Pole DC Operated B7								
GJL1313001R0107	5.5	20	5	600V/16A	10	1	0	BC7-30-10-07
GJL1313001R0017	5.5	20	5	600V/16A	12	0	1	BC7-30-01-07
GJL1313001R0101	5.5	20	5	600V/16A		1	0	BC7-30-10-01
GJL1313001R0011	5.5	20	5	600V/16A	24	0	1	BC7-30-01-01
GJL1313001R1106	5.5	20	5	600V/16A	40	1	0	BC7-30-10-16
GJL1313001R1016	5.5	20	5	600V/16A	48	0	1	BC7-30-01-16
GJL1313001R1103	5.5	20	5	600V/16A	10	1	0	BC7-30-10-03
GJL1313001R0013	5.5	20	5	600V/16A	60	0	1	BC7-30-01-03
GJL1313001R0104	5.5	20	5	600V/16A	110 105	1	0	BC7-30-10-04
GJL1313001R0014	5.5	20	5	600V/16A	110 - 125	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

MINI CONTACTORS



CONTACTORS AND CONTACTOR RELAYS

ABB



Т16						
Supplier Code	Setting Range A	Short-circuit Protective Device	Trip Class	Туре		
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		
1 SAZ711201 R 1013	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		

THERMAL OVERLOAD RELAYS FOR B AND AS RANGE



SINGLE MOUNTING KIT T16

Supplier Code	Suitable For	Description	Туре
1 SAZ701901 R0001	T16	Single mounting kit	DB16



CONTACTORS AND CONTACTOR RELAYS

ABB

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
 Switchle for a
- Suitable for contactor AF09-AF38Sealable operating elements

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	b
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Product Code	Supplier Code	Туре	Setting Ranges A-A	Suitable for Contactors
-	1SAZ721201R1005	TF42-0.13	0.10 - 0.13	
-	1 SAZ721201 R 1008	TF42-0.17	0.13 - 0.17	
-	1 SAZ721201 R 1009	TF42-0.23	0.17 - 0.23	
-	1 SAZ721201 R 1013	TF42-0.31	0.23 - 0.31	
-	1 SAZ721201 R 1014	TF42-0.41	0.31 - 0.41	
-	1 SAZ721201 R 1017	TF42-0.55	0.41 - 0.55	
-	1 SAZ721201 R 1021	TF42-0.74	0.55 - 0.74	
-	1 SAZ721201 R 1023	TF42-1.0	0.74 - 1.00	
D0005065	1 SAZ721201 R 1025	TF42-1.3	1.00 - 1.30	
D0005553	1 SAZ721201 R 1028	TF42-1.7	1.30 - 1.70	
D0005067	1 SAZ721201 R 1031	TF42-2.3	1.70 - 2.30	
D0005554	1 SAZ721201 R 1033	TF42-3.1	2.30 - 3.10	AF09 - AF38
D0005069	1 SAZ721201 R 1035	TF42-4.2	3.10 - 4.20	
D0005555	1 SAZ721201 R 1038	TF42-5.7	4.20 - 5.70	
D0006025	1 SAZ721201 R 1040	TF42-7.6	5.70 - 7.60	
D0003602	1 SAZ721201 R 1043	TF42-10	7.60 - 10.0	
D0003603	1 SAZ721201 R 1045	TF42-13	10.0 - 13.0	
D0006022	1 SAZ721201 R 1047	TF42-16	13.0 - 16.0	
D0003604	1 SAZ721201 R 1049	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	Туре
1SAZ701902R0001	TF42	Single mounting kit	DB42

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



Note

CONTACTORS AND CONTACTOR RELAYS

ABB



THERMAL OVERLOAD RELAYS FOR AF40 - AF65 RANGE

• TF65					
Product Code	Supplier Code	Setting Range A	Short-circuit Protective Device	Trip Class	Туре
-	1 SAZ811201 R 1001	22.0 - 28.0	80A, gG type fuses	10	TF65-28
-	1 SAZ811201 R 1002	25.0 - 33.0	80A, gG type fuses	10	TF65-33
D0020479	1 SAZ811201 R 1003	30.0 - 40.0	100A, gG type fuses	10	TF65-40
-	1 SAZ811201 R 1004	36.0 - 47.0	125A, gG type fuses	10	TF65-47
-	1 SAZ811201 R 1005	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	Туре
-	1 SAZ801901 R 1001	TF65	DB65 single mounting kit	DB65



THERMAL OVERLOAD RELAYS FOR AF80 - AF96 RANGE

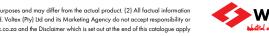
• TF96					
Product Code	Supplier Code	Setting Range A	Short-circuit Protective Device	Trip Class	Туре
-	1 SAZ911201 R 1001	40.0 - 51.0	125 A, gG type fuses	10	TF96-51
-	1SAZ911201R1002	48.0 - 60.0	160 A, gG type fuses	10	TF96-60
-	1SAZ911201R1003	57.0 - 68.0	160 A, gG type fuses	10	TF96-68
-	1 SAZ911201 R 1004	65.0 - 78.0	200 A, gG type fuses	10	TF96-78
-	1 SAZ911201 R 1005	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

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SINGLE MOUNTING KIT FOR TF96

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





CONTACTORS AND CONTACTOR RELAYS

ABB



THERMAL OVERLOAD RELAYS FOR AF116 - AF140 RANGE

• TF140					
Product Code	Supplier Code	Setting Range A	Short-circuit Protective Device	Trip Class	Туре
-	1SAZ431201R1001	66 - 90	200A, fuse type gG	10A	TF140DU-90
-	1 SAZ431201 R 1002	80 - 110	224A, fuse type gG	10A	TF140DU-110
-	1 SAZ431201 R 1003	100 - 135	224A, fuse type gG	10A	TF140DU-135
-	1 SAZ431201 R 1004	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	Туре
-	1 SAZ421201 R 1001	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
-	1 SAZ421201 R 1005	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	Туре
-	1SAZ401110R0001	TA200DU	DB200 single mounting kit	DB200



BLOCK CONTACTORS - OVERLOAD RELAYS FOR A CONTACTOR RANGE

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

Note



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	Туре	Rating and Adjustment Range	Contactor Fitment	Description
-	1 SAX 111001 R 1101	E16 DU 0.32	0.1 - 0.32	-	
-	1 SAX 111001 R 1102	E16 DU 1.0	0.3 - 1.00	-	
-	1 SAX 111001 R 1103	E16 DU 2.7	0.9 - 2.70	-	Electronic overload
-	1 SAX 111001 R 1104	E16 DU 6.3	2.0 - 6.30	-	
-	1 SAX 111001 R 1105	E16 DU 18.9	5.7 - 18.9	-	



ELECTRONIC TIMERS

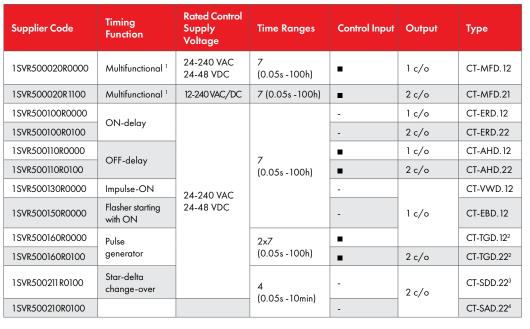




ELECTRONIC TIMERS CT-D RANGE

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.



Note Functions: ¹ ON-delay, OFF-delay with auxiliary voltage, Impulse-ON, Impulse-OFF with auxiliary voltage, Flasher starting with ON, Flasher starting with OFF, Pulse former ² ON and OFF times adjustable independently: 2 x 7 time ranges 0.05 s - 100 h

³ Transition time 50 ms fixed

⁴ Transition time adjustable

- Note: Control input with voltage-related triggering
 - No triggering

Synonyms: Used expression 1 c/o contact

2 c/o contact

alternative expression(s) SPDT DPDT Used expression voltage-related volt-free alternative expression(s) wet/non-floating dry/floating



ELECTRONIC TIMERS

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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	Туре
1SVR550029R8100	Multifunctional ¹	24-240VAC/DC	8 (0.05 s - 100 h)		1 c/o	CT-MFE
1SVR550107R1100			0.1-10 s			
1SVR550107R4100		24 V AC/DC,	0.3-30 s			
1SVR550107R2100		220-240 V AC	3-300 s] -		
1SVR550107R5100			0.3-30 min			CT EDE
1 SVR550100R1100	ON-delay		0.1-10 s		1 c/o	CT-ERE
1SVR550100R4100		110-130 V AC	0.3-30 s			
1SVR550100R2100		110-130 V AC	3-300 s] -		
1SVR550100R5100			0.3-30 min			
1 SVR550118R 1100			0.1-10 s			
1SVR550118R4100		24 V AC/DC	0.3-30 s			
1SVR550118R2100			3-300 s			
1 SVR550110R 1100	OFF-delay		0.1-10 s		1 c/o	
1SVR550110R4100		110-130 V AC	0.3-30 s			CT-AHE
1SVR550110R2100			3-300 s			
1 SVR550111 R 1100			0.1-10 s			
1SVR550111R4100		220-240 V AC	0.3-30 s			
1SVR550111R2100			3-300 s			
1SVR550127R1100		24 V AC/DC,	0.1-10 s			
1SVR550127R4100		220-240 V AC	0.3-30 s		1 c/o	CT-ARE
1 SVR550120R 1100	OFF-delay ²	110, 100 V AC	0.1-10 s] -		
1SVR550120R4100		110-130 V AC	0.3-30 s			
1 SVR550137R 1100			0.1-10 s			
1SVR550137R4100		24 V AC/DC, 220-240 V AC	0.3-30 s			
1SVR550137R2100		120 210 7710	3-300 s			CT VANE
1 SVR550130R 1100	Impulse-ON		0.1-10 s	-	1 c/o	CT-VWE
1SVR550130R4100		110-130 V AC	0.3-30 s	1		
1SVR550130R2100			3-300 s			
1SVR550158R3100		24 V AC/DC				
1SVR550150R3100	Impulse-OFF ²	110-130 V AC	0.05-1 s	-	1 c/o	CT-AWE
1 SVR550151 R3100		220-240 V AC				

Note Functions: ¹ ON-delay, OFF-delay with auxiliary voltage, Impulse-ON, Flasher starting with ON, Flasher starting with OFF, Pulse former

² Without auxiliary voltage, True Off-delay timer.

Note: Control input with voltage-related triggering

- No triggering

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ELECTRONIC TIMERS

ABB



ELECTRONIC	TIMERS	CT-E RANGE

Supplier Code	Timing Function	Rated Control Supply Voltage	Time Ranges	Control Input	Output	Туре
1SVR550148R1100			0.1-10 s			
1SVR550148R4100		24VAC/DC	0.3-30 s			
1SVR550148R2100			3-300 s			
1SVR550140R1100			0.1-10 s			
1SVR550140R4100	Impulse-OFF	110-130 V AC	0.3-30 s		1 c/o	CT-AWE
1SVR550140R2100			3-300 s			
1SVR550141R1100			0.1-10 s			
1SVR550141R4100		220-240 V AC	0.3-30 s			
1SVR550141R2100			3-300 s			
1SVR550167R1100	Flasher staring with OFF	24 V AC/DC, 220-240 V AC	0.1-10 s	-	1 c/o	CT-EBE ⁴
1SVR550160R1100	will Off	110-130 V AC				
1SVR550207R1100			0.1-10 s	-		
1SVR550207R4100		24 V AC/DC, 220-240 V AC	0.3-30 s			
1SVR550207R2100	Star-delta change-over	220 240 1710	3-300 s		. /	CT-YDE ¹²
1SVR550200R1100	twice ON-delayed		0.1-10 s	-	1 c/o	
1SVR550200R4100	OIN-delayed	110-130 V AC	0.3-30 s			
1SVR550200R2100			3-300 s			
1SVR550217R4100		24 V AC/DC,				
	Star-delta change-	220-240 V AC	0.2.20.		1 n/o +	CT-SDE ^{2 5}
1SVR550210R4100	over with impulse	110-130 V AC	0.3-30 s	-	1 n/c	CI-SDE-
1SVR550212R4100	impoise	380-415 V AC				
1SVR550019R0000	Multifunctional	24-240 V AC/DC	0.1-10 s 3-300 s	-		CT-MKE ^{3 6}
1SVR550509R1000			0.1-10 s			
1SVR550509R4000	ON-delay	24-240 V AC/DC	0.3-30 s	-		CT-EKE
1SVR550509R2000		, , , , , , , , , , , , , , , , , , , ,	3-300 s		Solid-state	
1SVR550519R1000			0.1-10 s			
1SVR550519R4000	OFF-delay	24-240 V AC	0.3-30 s	-		CT-AKE
1SVR550519R2000			3-300 s			

Note Functions: ¹Without auxiliary voltage

- ²With fixed transition time
- ³ Solid-state output, functions and time range selection via external jumpers
- ⁴ Symetric ON & OFF times
- ⁵Common contact
- ⁶Functions: 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

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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	Туре
1SVR730020R0200		24 - 240				CT-MVS.21 S 1 23
1SVR740020R0200		V AC/DC				CT-MVS.21P123
1SVR730020R3300	Multifunctional⁵	24-48 V DC,	10	_	2 - (-	CT-MVS.22S
1SVR740020R3300	MUltitunctional	24-240 V AC	(0.05 - 300h)		2 c/o	CT-MVS.22P
1SVR730021R2300		380-440				CT-MVS.23S
1SVR740021R2300		V AC				CT-MVS.23P
1SVR730020R3100	Multifunctional ⁶	24-48 V DC,	10	_	1/-	CT-MVS.12S
1SVR740020R3100	MUltifunctional	24-240 V AC	(0.05s - 300h)		1 c/o	CT-MVS.12P
1SVR730030R3300	Multifunctional ⁷	24-48 V DC,	2×10		2 . / .	CT- MXS.22S ⁴
1SVR740030R3300	Mulliunciionai	24-240 V AC	(0.05s - 300h)		2 c/o	CT-MXS.22P ⁴
1SVR730010R0200		24-240	10	- /	2 c/o	CT-MFS.21 S 1 2 3
1SVR740010R0200	Multifunctional ⁸	V AC/DC	(0.05s - 300h)		2 0/0	CT-MFS.21P123
1SVR730010R3200	Mulliunciionai	24-48 V DC,	10	_	2 - /-	CT-MBS.22S ²³
1SVR740010R3200		24-240 V AC	(0.05s - 300h)		2 c/o	CT-MBS.22P ²³
1SVR730040R3300	Multifunctional ⁹	24-48 V DC,	10		2 . / .	CT-WBS.22S
1SVR740040R3300	MUIIIUTICTIONAL	24-240 V AC	(0.05s - 300h)	-	2 c/o	CT-WBS.22P

Note S: screw connection

P: push-in / easy connect

¹ Extended temperature range -40°C

² Remote potentiometer connection

³ 2nd c/o contact selectable as instantaneous contact

⁴ 2 remote potentiometer connections

⁵ 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

⁶ 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

⁷ 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

⁸ 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

° 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





ELECTRONIC TIMERS CT-S RANGE

Supplier Code	Timing Function	Rated Control Supply Voltage	Time Ranges	Control Input	Output	Туре
1SVR730100R0300		24-240				CT-ERS.21 S ¹
1SVR740100R0300		V AC/DC			0 (CT-ERS.21P1
1SVR730100R3300		24-48 V DC,	10	-	2 c/o	CT-ERS.22S
1SVR740100R3300	ON-delay	24-240 V AC	(0.05s - 300h)			CT-ERS.22P
1SVR730100R3100		24-48 V DC,			1 c/o	CT-ERS.12S
1SVR740100R3100		24-240 V AC		-	10/0	CT-ERS.12P
1SVR730180R0300		24-240				CT-APS.21S ¹
1SVR740180R0300		V AC/DC		•	2 c/o	CT-APS.21P ¹
1SVR730180R3300			10 (0.05s - 300h) 10			CT-APS.22S
1 SVR740180R3300		24-48 V DC,				CT-APS.22P
1SVR730180R3100	OFF-delay	24-240 V AC			1 /	CT-APS. 12S
1SVR740180R3100					1 c/o	CT-APS. 12P
1SVR730110R3300		24-48 V DC,			2 c/o	CT-AHS.22S
1SVR740110R3300		24-240 V AC	(0.05 s - 300h)		2 c/ o	CT-AHS.22P
1SVR730120R3100					1	CT-ARS.11S
1SVR740120R3100	OFF-delay ²	24-240	7	-	1 c/o	CT-ARS.11P
1SVR730120R3300	Orr-delay -	V AC/DC	(0.05s - 10 min)		2 - /-	CT-ARS.21S
1 SVR740120R3300				-	2 c/o	CT-ARS.21P
1SVR730210R3300		24-48 V DC,				CT-SDS.22S
1SVR740210R3300	Star-delta	24-240 V AC	7		2 (CT-SDS.22P
1SVR730211R2300	change-over ³	380-440	(0.05s - 10min)	-	2 n/o	CT-SDS.23S
1 SVR740211 R2300		V AC				CT-SDS.23P

Note S: screw connection

P: push-in / easy connect

¹ Extended temperature range -40°C

² Without auxiliary voltage
 ³ 50 ms transition time

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Note: Control input with voltage-related triggering

□ Control input with volt-free triggering

- No triggering



AUTOMATION DEVICES

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AUTOMATION DEVICES MANUAL MOTOR STARTERS





MS116 AND MS132 MANUAL MOTOR STARTERS HARMONISED DESIGN IN 45mm WIDTH

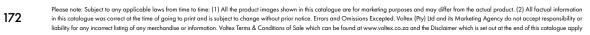
Product code	Туре	MS116	MS132
-	Setting range	0.1 - 16A	0.1 - 32A
-	Switch position	ON/OFF	ON/OFF/Trip
-	Magnetic trip indication	-	Yes
-	Lockable handle without accessories	-	Yes
-	Max. breaking capacity lcs	Up to 50kA	Up to 100kA
-	Trip class	10A	10A



ONE RANGE OF ACCESSORIES FOR MS116 AND MS132

- Common auxiliary contacts, signaling contacts and auxiliary trip units
- Common busbar systems







AUTOMATION DEVICES

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MANUAL MOTOR STARTERS





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 li (A)	Туре
			MS116			
-	1SAM250000R1001	0.03	0.10 - 0.16	50	2.00 ¹	MS116 - 0.16
D0013527	1SAM250000R1002	0.06	0.16 - 0.25	50	3.10 ¹	MS116 - 0.25
D0019858	1SAM250000R1003	0.09	0.25 - 0.40	50	5.00 ¹	MS116 - 0.4
D0019859	1SAM250000R1004	0.12	0.40 - 0.63	50	7.90 ¹	MS116 - 0.63
D0005997	1SAM250000R1005	0.25	0.63 - 1.00	50	12.51	MS116 - 1.0
D0005996	1SAM250000R1006	0.55	1.00 - 1.60	50	20.01	MS116 - 1.6
D0005549	1SAM250000R1007	0.75	1.60 - 2.50	50	31.3 ¹	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	1 SAM250000R 1012	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
-	1 SAM250000R 1015	15	25.0 - 32.0	10	480	MS116 - 32
	1		MS132			
	1SAM350000R1001	0.03	0.10 - 0.16	100	2.00 ¹	MS132 - 0.16
-	1SAM350000R1002	0.06	0.16 - 0.25	100	3.10 ¹	MS132 - 0.25
D0019858	1SAM350000R1003	0.09	0.25 - 0.40	100	5.00 ¹	MS132 - 0.4
D0019859	1SAM350000R1004	0.12	0.40 - 0.63	100	7.90 ¹	MS132 - 0.63
-	1SAM350000R1005	0.25	0.63 - 1.00	100	12.51	MS132 - 1.0
D0006001	1SAM350000R1006	0.55	1.00 - 1.60	100	20.01	MS132 - 1.6
-	1SAM350000R1007	0.75	1.60 - 2.50	100	31.31	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	1 SAM350000R1012	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.

MS116, MS132

'The data is valid for products, produced after week 34, 2014.



AUTOMATION DEVICES

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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 li (A)	Туре
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	
-	1SAM450000R1006	MS450-45	36 - 45	50
-	1SAM450000R1007	MS450-50	40 - 50	

AUTOMATION DEVICES MANUAL MOTOR STARTERS

Function:

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• 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	
-	1SAM550000R1006	MS495-63	36 - 50	
-	1SAM550000R1007	MS495-63	45 - 63	60
-	1SAM550000R1008	MS495-75	57 - 75	- 50
-	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.



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Product Code	Supplier Code	Auxiliary Contacts N.O.	Auxiliary Contacts N.C.	Description	Туре
		Auxiliary	Contacts – I	Nountable on the Front	
D0003578	1 SAM201901 R 1001	1	1		HKF1-11
-	1 SAM201901 R 1003	1	0		HKF1-10
-	1 SAM201901 R 1004	0	1		HKF1-01
-	1 SAM201901 R 1002	2	0		HKF1-20
	Aux	iliary Contact	s – Mountak	ble on the Right	
D0003577	1 SAM201902R1001	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
	Sign	aling Contact	s – Mountak	ble on the Right	
-	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
-	1 SAM301901 R 1001	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	Туре
		Shunt Trips —	Mountable	on the Left	
-	1 SAM201910R1001	20 - 24		20 - 24	AA1-24
	1 SAM201910R1002	110		110	AA1-110
-	1 SAM201910R1003	200 - 240		200 - 240	AA1-230
-	1 SAM201910R1004	350 - 415		350 - 415	AA1-400
		Shunt Trips –	Mountable	on the Left	
-	1 SAM201904R1010	20		24	UA1-20
-	1 SAM201904R1001	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
-	1 SAM201904R 1007	415		480	UA1-415
-	1 SAM201904R1009	-		575	UA1-575

MS116, MS132, MS165, MO132, MO165, MS132-T



AUTOMATION DEVICES

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MANUAL MOTOR STARTERS - MAIN ACCESSORIES

	MS116, M	\$132, MO132, I	MS132-T -	MAIN ACCES	SORIES		
nininin	Product Code	Supplier Code	Suitable For	Rated Operational Current (A)	Number of MMS	Number of Lateral Aux.	Туре
U IIII -			Th	ree-phase Busbars			
	-	1SAM201906R1102		65	2	0	PS1 - 2 - 0 - 65
	D0003587	1SAM201906R1103		65	3	0	PS1 - 3 - 0 - 65
the second	-	1SAM201906R1104		65	4	0	PS1 - 4 - 0 - 65
ninh	D0003589	1 SAM201906R 1105		65	5	0	PS1 - 5 - 0 - 65
	-	1 SAM201906R 1112		65	2	1	PS1 - 2 - 1 - 65
	-	1 SAM201906R 1113		65	3	1	PS1 - 3 - 1 - 65
a	-	1 SAM201906R 1114		65	4	1	PS1 - 4 - 1 - 65
600	-	1 SAM201906R 1115		65	5	1	PS1 - 5 - 1 - 65
in hinn	-	1 SAM201906R 1122	MS116	65	2	2	PS1 - 2 - 2 - 65
	-	1 SAM201906R 1123	MS 132	65	3	2	PS1 - 3 - 2 - 65
	-	1 SAM201906R 1124	MO 132	65	4	2	PS1 - 4 - 2 - 65
000000	-	1 SAM201906R 1125		65	5	2	PS1 - 5 - 2 - 65
10.0 0 0 0 0	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
1. C	-	1SAM201916R1113		100	3	1	PS1 - 3 - 1 - 100
10 000	-	1SAM201916R1114		100	4	1	PS1 - 4 - 1 - 100
	-	1SAM201916R1115		100	5	1	PS1 - 5 - 1 - 100
	-	1 SAM201916R 1123		100	3	2	PS1 - 3 - 2 - 100

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AUTOMATION DEVICES

MANUAL MOTOR STARTERS - MAIN ACCESSORIES

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THREE-PHASE FEEDER TERMINALS

Product Code	Supplier Code	Suitable For	Rated Operational Current (A)	Rated Cross Section (mm²)	Mounting Form	Туре
D0003599	1SAM201907R1101		65	25	Flat	S1-M1-25
-	1SAM201907R1102	MS116	65	25	High	S1-M2-25
-	1SAM201907R1103	MS132 MO132	65	25	UL type E and IEC	S1-M3-25
D0003600	1SAM201913R1103		100	35	UL type E and IEC	S1-M3-35
Supplier Co	de	Suitable For		Description		Туре
1 SAM20190	8R1001	MS116, MS132, MO132		Protection cover for busbars		BS1-3
GJF1101903F	20001	140117		Lock handle		SA1
GJF1101903F	20003	MS116		Lock handle box SA1/SA2		SA3
	Ac	cessories for Sin	igle-phase Coni	nection (IEC only	/)	
1 SAM201914	4R1001	MS116, MS132, MO132,		Phase connecting link		PB1-1-32
1 SAM201914	\$R1002	MS132-T		Phase power inf	eed block	S1-PB1-25

MS165, MO165 - MAIN ACCESSORIES

Supplier Code	Suitable For	Rated Operational Current (A)	Number of MMS	Number of Lateral Aux.	Туре
		Three-phase	Busbars		
1SAM401920R1002		125	2	0	PS2-2-0-125
1 SAM401920R 1003		125	3	0	PS2-3-0-125
1 SAM401920R 1004	MS165	125	4	0	PS2-4-0-125
1SAM401920R1022	MO165	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		Туре
1SAM401922R1001	MS165, MO165		Terminal shroud		KA165
1SAM401921R1001			Protection cover for	busbars	BS2-3
GJF1101903R0002			Padlock + two keys	i	SA2



AUTOMATION DEVICES

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GENERAL ACCESSORIES









Product Code	Supplier Code	Suitable For	Description	Shaft Length (mm)	Colour	Туре	
			Shafts				
-	1SCA101647R1001					OXS6X85	
-	1SCA108043R1001			85		OX\$6X105	
D0005630	1SCA101655R1001	MS116 MS132	For MSHD handles.	105		OX\$6X130	
		MO 132 MS 165	6mm. Shaft	130			
		MO165	extension for door coupling				
D0005631	1SCA101659R1001	MS4xx MO4xx	driver.	180		OX\$6X180	
				100			
	IP64 Handles (UL/CSA Type 1, 3R, 12)						
-	1SAM201920R1001		Padlockable max. 3		Black	MSHD-LB	
-	1SAM201920R1002	MS116	padlocks with bail diameter 5-8mm,		Yellow	MSHD-LY	
-	1 SAM201920R 1011	MS132 MO132	door interlock		Black	MSHD-LTB	
		MS165	in ON position defeatable, for use				
_	1 SAM201920R 1012	MO165 MS4xx MO4xx	types up to 180mm			Yellow	MSHD-LTY
	10,0020172000012						
			MSOX.				
			Driver				
-	1SAM101923R0002	MS116	MS132 MO132 MS165 MO165 Coupling driver for use with 6mm OXS6 types up to			MSMN	
						_	
-	1 SAM 101923R0012	MS165 MO165				MSMNO	
		MS4xx	180mm.			_	
		MO4xx					
		Sł	naft Alignment Ring				
			The MSH-AR			_	
		MS116 MS132	supports the long				
	101100000000000000000000000000000000000	MO 132	shafts for alignment to the handle inlet. It				
-	1SAM201920R1000	MS165 MO165	makes closing panel			MSH-AR	
		MS4xx MO4xx	doors more easy. Use for			_	
		MO4xx	OX\$6X > 105mm.			_	
			Shaft Supporter				
			With the MSAH it is possible to support				
		MS116	the shaft in the				
-	1SAM201909R1021	MS132	extension of handle (MSHD). It is			MSAH1	
		MO 132	mandatory for the			-	
			usage of shafts > 130mm.				

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

178 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 and the Disclaimer which is set out at the end of this catalogue apply

MS1xx, MOxx, MS49x, MO49x



SWITCHES



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 SWICTH-DISCONNECTORS - INCLUDES DIRECT MOUNT HANDLE UP TO OT125

Product Code	Supplier Code	Туре	Current Rating lth (Open) A
D0020922	1SCA104811R1001	OT16F3	16
D0020923	1 SCA 104857R 1001	OT25F3	25
D0020924	1 SCA 104902R 1001	OT40F3	40
D0020925	1SCA105332R1001	OT63F3	63
D0020926	1SCA105798R1001	OT80F3	80
D0020927	1SCA105004R1001	OT100F3	100
D0020928	1SCA105033R1001	OT 125F3	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

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Product Code	Supplier Code	Туре	Function	Suitable for Switches	
D0005624	1SCA105001R1001	OTPS40FPN1	Simultaneous with the main contacts		
D0005625	1SCA105000R1001	OTPS40FPN2		OT16 - OT40F	
D0005626	1SCA105461R1001	OTPS80FP		OT63 - OT80F	
D0005623	1SCA105099R1001	OTPS 125FP		OT100 - OT125F	



CONVERSION KITS FOR FRONT OPERATED SWITCH COMBINATIONS

6 pole switches

Parallel attachement for connecting two 3 pole switches to switch simultaneously

Product Code	Supplier Code	Туре	Function	Suitable for Switches
-	1SCA022865R4800	OWP6D40		OT16 - OT40F
D0019985	1SCA022865R5010	OWP6D80	Simultaneous with the main contacts	OT63 - OT80F
-	1SCA022865R5100	OWP6D125		OT100 - OT125F



SWITCHES

ABB



H,	ANDLES
•	Mounted directly to the switch, no shaft needed

Product Code	Supplier Code	Туре	Suitable for Switches	Colour	Handle Lenght (mm)	Padlockable
-	1SCA109089R1001	OHBS2	OT63 - OT1 25F3/F4		40	X
-	ISCA108665R1001	OHB59	OT40 - 125	Black	72	Yes



SHAFTS FOR SELECTOR TYPE HANDLES

Product Code	Supplier Code	Туре	Suitable for Switches	Shaft Size (mm)	Shaft Length (mm)
D0005630	1 SCA 101655R 1001	OX\$6X130			130
D0003641	1 SCA 101660R 1001	OX\$6X250	OT 16 - OT 125F	6	250
D0003642	1SCA101661R1001	OX\$6X330			330



SELECTOR TYPE HANDLES, DOOR MOUNTED, INDICATION I-O AND ON-OFF

- No shaft 22.5mm hole
- Padlockable with 3 padlocks in OFF position ٠
 - Interlock in On position
 - Protection rating: IP65

Product Code	Supplier Code	Туре	Suitable for Switches	Colour	Padlockable
-	1SCA105231R1001	OHBS2PJ	0114 0140	Black/red	
-	1SCA105322R1001	OHY2SPJ	OT16 - OT40	Yellow/red	
-	1SCA105323R1001	OHBS2RJ		Black/red	Yes
-	1SCA105323R1001	OHY2SRJ	OT 16 - OT 125	Yellow/red	
D0003639	1 SCA 105213RL001	OHBS2AJ		Black/red	

Note

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

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SWITCHES

Rated Operational





FRONT OPERATED SWITCH-DISCONNECTORS

Shaft and handles included as standard

Product Code

Current Ratio

		Commune Deathers July		Current
Product Code	Supplier Code	Current Rating Ith (open) A	Туре	AC21A/AC22A/ AC23A1000V [A/A/A]
D0005610	1 CSA 135139R 1001	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	OT 1250E03P	1250
-	1SCA022860R6580	1600	OT1600E03P	1600
-	1SCA108036R1001	2000	OT2000E03P	2000
-	1SCA104972R1001	2500	OT2500E03P	2500



OT SWITCH-DISCONNECTORS, 3 POLE, BASE MOUNTING, WITH DIRECT MOUNTED HANDLE

		Coursest Destine 14		Rated Operational Current
Product Code	Supplier Code	Current Rating Ith (open) A	Туре	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



SWITCHES

ABB



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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	Туре	Function	Suitable for Switches
-	1SCA022735R9420	OTZ250E	Simultaneuos with the main contacts	OT200 - OT250
D0019934	1SCA022749R1960	OTZ400E		OT315 - OT400
-	1SCA022807R5100	OTZ800E		OT630 - OT800
-	1SCA103765R1001	OTZ 1250E		OT1000 - OT1250
-	1SCA100431R1001	OTZ1600E		OT1600
-	1SCA107931R1001	OTZ2500E		OT2000 - OT2500

SHAFTS FOR PISTOL TYPE HANDLES

Product Code	Supplier Code	Туре	Suitable for Switches	Shaft Size (mm)	Shaft Length (mm)
D0005628	1SCA022295R5600	OXP6X150	OT16 - OT250		150
D0003640	1SCA022042R6370	OXP6X290		4	290
D0005629	1SCA022042R6530	OXP6X360		6	360
-	1SCA022056R6030	OXP6X430			430
-	1SCA022325SR6710	OXP12X185		12	185
-	1SCA022042R5990	OXP12X395	OT315 - 2500		395
-	1SCA022042R6020	OXP12X465			465

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

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SWITCHES







Shafts and handles included as	standard
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Product Code	Supplier Code	Туре	Suitable for Switches	Shaft Size (mm)	Shaft Length (mm)	
Door Mount Handles - Pistol Type						
D0003638	1 SCA02230R8770	OHB45J6	OT 16F3 - OT 125F3/ OWP6080 - OWP5D 125	6	45	
Door Mount Handles - Pistol Type. For Appropriate Shaft Size (OXP_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		95	
D0006322	1 SCA022381 R 1560	OHB 125J 12	OT630E - OT800E	12	125	
-	1 SCA 115920R 1001	OHB274J12	OT1000E - OT2500E		274	
D0005601 D0006323	3 Padla 1SCA022360R9560 1SCA022361R0830 1SCA022381R1560	OHB65J6 OHB95J12 OHB125J12	, Interlock in ON Position OT 160E - OT 250E OT 315E - OT 400E OT 630E - OT 800E	6	65 95 125	



OT MINI SWITCH-DISCONNECTORS, 3 POLE, DOOR MOUNTING

Product Code	Supplier Code	Туре	Current Rating Ith (open) A
D0006039	1 SCA 104838R 1001	OT 17FT3	16
D0006040	1 SCA 104884R 1001	OT25FT3	25
D0006041	1SCA104940R1001	OT40FT3	40
D0006337	1SCA105382R1001	OT63FT3	63
D0006043	1SCA105431R1001	OT80FT3	80
D0006037	1SCA105023R1001	OT 100 FT 3	100
D0006340	1SCA105090R1001	OT 125FT3	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	Туре	Function	Suitable for Switches
D0005624	1SCA104999R1001	OTPS40FDN1		
D0005625	1SCA104998R1001	OTPS40FDN2	Simultaneuos with the	OT16 - OT40FT
D0005626	1SCA105458R1001	OTPS80FD	main contacts	OT63 - OT80F
D0005623	1SCA105096R1001	OTPS 125FD		OT100 - OT125FT



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



SWITCHES

ABB



AUXILIARY CONTACT BLOCKS, IP20

Product Code	Supplier Code	Туре	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	OT 125F3C
-	1SCA022190R3000	OBEA10		OT 160E
-	1SCA022190R3260	OBEA01	Mounting with OEZNP1	OTIOUE
-	1SCA022131R8690	OZXK1		05710150
-	1SCA022131R8850	OZXK2	1 NO + 1NC mounting on mechanism	OETL3150



TERMINAL SHROUDS

Snap on mounting grey plastic							
Product Code	Supplier Code	Туре	Number of Pieces	Suitable for Switches			
Terminal Shrouds (3 Per Pack)							
-	1SCA022731R8150	OTS250G1L/3		OT160EV03 - OT250E03			
-	1SCA022736R8840	OTS400G1L/3		OT315E03 - OT400E03			
-	1SCA022776R7890	OTS800G1L/3	3	OT630E03 - OT800E03			
-	1SCA022871R9510	OTS1600G1L/3		OT1000E03 - OT1600E03			
-	1SCA107261R1001	OTS2500G1L/3		OT2000E03 - OT2500E03			

ENCLOSED SWITCH DISCONNECTOR - ONE20

		_	ype Number of Poles Current Rating AC22A 230V			
Product Code	Supplier Code	Туре			AC23A 400V	
	Cover Colour: White. Handle Colour: White					
-	1SCA138456R1001	ONE20M2W	2			
-	1SCA138457R1001	ONE20M3W	3	20	9.8	
-	1SCA138459R1001	ONE20M4W	4			
	Cover	Colour: Yellow. H	andle Colour: Red			
-	1SCA135533R1001	ONE20M2Y	2			
-	1SCA135536R1001	ONE20M3Y	3	20	9.8	
-	1SCA135540R1001	ONE20M4Y	4			



SOFT STARTERS

ABB

PSR - THE COMPACT RANGE

• PSR3-PSR105

- Rated operational voltage Ue, 208-600V AC
- Rated control supply voltage Us, 100-240V AC

-
EX To a Art

MOTOR POWER

Product Code	Supplier Code	230V Pe kW	400V Pe kW	500V Pe kW	Туре	Type IEC Max Rated Operational Current le (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
-	1 SFA896111 R7000	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
-	1 SFA897115R7000	110	200	250	PSR370-600-70	370



COMPACT PILOT DEVICES

ABB

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	Туре	Description	Contact NO	Contact NC
D0003657	1 SFA619200R 1016	C2SS1-10B-10		1	-
-	1SFA619202R1046	C2SS1-10B-01	Black selector	-	1
D0003658	1SFA619200R1076	C2SS1-10B-11	switch 2 position (C-B)	1	1
D0003659	1SFA619200R1026	C2SS1-10B-20		2	-



SELECTOR SWITCHES 3 POSITION (A-B-C) MAINTAINED NON ILLUMINATED 2mm

Product Code	Supplier Code	Туре	Description	Contact NO	Contact NC
D0003660	1SFA619210R1026	C3SS1-10B-20	Black selector	2	-
-	1SFA619210R1056	C3SS1-10B-02	switch 3 position	-	2
-	1SFA619210R1076	C3SS1-10B-11	(A-B-C)	1	1



COMPACT PILOT DEVICES NON ILLUMINATED PUSH BUTTONS MOMENTARY COMPACT PUSH BUTTONS EXTENDED NON ILLUMINATED 22mm

Product Code	Supplier Code	Туре	Description	Contact NO	Contact NC
D0003668	1SFA619100R1011	CP1-10R-10	Red compact	1	-
D0003667	1SFA619100R1041	CP1-10R-01	push button non	-	1
-	1SFA619100R1071	CP1-10R-11	illuminated	1	1
D0003665	1SFA619100R1012	CP1-10G-10	Green compact	1	-
-	1SFA619100R1072	CP1-10G-11	push button non	1	1
-	1SFA619100R1022	CP1-10G-20	illuminated	2	-
D0003669	1 SFA619100R 1013	CP1-10Y-10	Yellow compact push	1	-
D0003670	1SFA619100R1073	CP1-10Y-11	button non illuminated	1	1
-	1SFA619100R1014	CP1-10L-10	Blue compact push	1	-
D0003666	1SFA619100R1074	CP1-10L-1	button non illuminated	1	1
D0005633	1SFA619100R1076	CP1-10B-01	Black compact push	-	1
D0003664	1SFA619100R1046	CP1-10B-11	button non illuminated	1	1

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



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COMPACT PILOT DEVICES

ABB



Product Code	Supplier Code	Colour	Rated Current (mA)	Туре		
	Rc	uted Voltage 24 V AC/I	bc			
-	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	1 SFA619403R5131	Red	15 - 17	CL2-513R		
D0003675	1 SFA619403R5132	Green	15 - 17	CL2-513G		
D0003635	1 SFA619403R5133	Yellow	15 - 17	CL2-513Y		
Rated Voltage 110-130 V DC						
D0003678	1 SFA619403R5151	Red	8 - 9	CL2-515R		
D0003677	1 SFA619403R5152	Green	8 - 9	CL2-515G		
D0003679	1 SFA619403R5153	Yellow	8 - 9	CL2-515Y		
		Rated Voltage 230 V AG	C			
D0003682	1 SFA619403R5231	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		
	Ra	ted Voltage 380-415 V	AC			
-	1 SFA619403R5421	Red	15 - 17	CL2-524R		
-	1SFA619403R5422	Green	15 - 17	CL2-524G		
	Rated Voltage 23	30 V AC with 60V Anti-i	nductive Voltage			
-	1 SFA619403R6231	Red	17	CL2-623R		
-	1SFA619403R6232	Green	17	CL2-623G		
-	1SFA619403R6233	Yellow	17	CL2-623Y		

PILOT LIGHTS



Product Code	Supplier Code	Туре	Descritpion	Contact NO	Contact NC
D0003661	1 SFA619500R 1041	CE3T-10R-01	Compact 30mm emergency	-	1
-	1 SFA619500R 1051	CE3T-10R-02	stop (twist release)	-	2
-	1SFA619552R1051	CE3K-10R-02	Compact 30mm emergency stop (key operated)	-	2
D0003662	1 SFA619550R 1041	CE4T-10R-01	Compact 40mm emergency	-	1
-	1 SFA619550R 1051	CE4T-10R-02	stop push button twist	-	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.



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ELECTRONIC PRODUCTS AND RELAYS

ABB

PRIMARY SWITCH MODE POWER SUPPLIES

CP-D RANGE

٠ 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		je (V)	Rated Output		Туре
Supplier Code	AC	DC	Voltage	Current	iybe
1SVR427041R1000	90 - 264	120 - 375	12VDC	0.83A	CP-D 12/0.83
1 SVR427043R1200	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
	1SVR427043R1200 1SVR427041R0000 1SVR427043R0100 1SVR427044R0200	Supplier Code AC 1SVR427041R1000 90 - 264 1SVR427043R1200 90 - 264 1SVR427041R0000 90 - 264 1SVR427043R0100 90 - 264 1SVR427044R0200 90 - 264	AC DC 1SVR427041R1000 90 - 264 120 - 375 1SVR427043R1200 90 - 264 120 - 375 1SVR427041R0000 90 - 264 120 - 375 1SVR427043R0100 90 - 264 120 - 375 1SVR427044R0200 90 - 264 120 - 375	Supplier Code AC DC Voltage 1SVR427041R1000 90-264 120-375 12VDC 1SVR427043R1200 90-264 120-375 12VDC 1SVR427041R0000 90-264 120-375 24VDC 1SVR427043R0100 90-264 120-375 24VDC 1SVR427044R0200 90-264 120-375 24VDC	Supplier Code AC DC Voltage Current 1SVR427041R1000 90 - 264 120 - 375 12VDC 0.83A 1SVR427043R1200 90 - 264 120 - 375 12VDC 2.1A 1SVR427041R0000 90 - 264 120 - 375 24VDC 0.42A 1SVR427043R0100 90 - 264 120 - 375 24VDC 1.3A 1SVR427044R0200 90 - 264 120 - 375 24VDC 2.5A

CP-E < 100W

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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	Sumplier Code	Input Voltage (V)		Rated Output		Turne
Code	de Supplier Code	AC	DC	Voltage	Current	Туре
-	1 SVR427033R3000	90 - 264	120 - 375	5VDC	3A	CP-E 5/3.0
-	1 SVR427032R1000	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
-	1 SVR427030R0000	90 - 264	120 - 375	24VDC	0.75A	CP-E 24/0.75
-	1 SVR427031 R0000	85 - 264	90 - 375	24VDC	1.25A	CP-E 24/1.25
-	1 SVR427032R0000	85 - 264	90 - 375	24VDC	2.5A	CP-E 24/2.5



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CP-E > 100W

Product	Sum the Code	Input Voltage (V)		Rated Output		Turne
Code	Code Supplier Code	AC	DC	Voltage	Current	Туре
-	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
-	1 SVR427031 R2000	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
-	1 SVR427035R2000	90 - 264	120 - 375	48VDC	10A	CP-E 48/10.0







ELECTRONIC PRODUCTS AND RELAYS

ABB



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 Supplier Code		Input Voltage (\	/)	Rated Outp	ut	Tomo
Code	Supplier Code	AC	DC	Voltage	Current	Туре
-	1 SVR427054R0000	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	Supplier Code	Input Voltage (\	()	Rated Outp	ut	Turne
Code	Supplier Code	AC	DC	Voltage	Current	Туре
-	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



SITELITES/AVIATION WARNING BEACONS





S2SL/S1ES/G-R SINGLE SITELITE BEACON

Product Code: L0000110

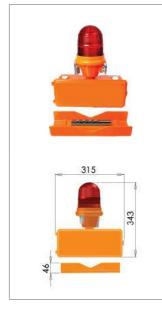
- Beacon is supplied with an ES lampholder and 20mm cable gland entry as standard
- Max 100W lamp



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



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S2SL/S1ES/BS-COM SINGLE SITELITE BEACON

Product Code: L0000108

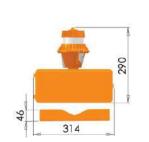
- Beacon is supplied complete with a die-cast aluminium enclosure and universal pole clamp
- Max 100 W lamp
- For use with Annunciator Box





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





SITELITES/AVIATION WARNING BEACONS



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 Apput
- For use with Annunciator Box





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

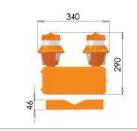


S2SL/S2ES/BS-COM DOUBLE SITELITE BEACON

Product Code: L0000113

- Beacon is supplied with a die-cast aluminium enclosure and universal pole clamp
- Max 100W lamp
 Ear use with Appund
- For use with Annunciator Box





S2SL/S2ES/BS-COM32 CD DOUBLE SITELITE BEACON

Product Code: L0002519

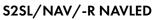
- Beacon is supplied with a die-cast aluminium enclosure and universal pole clamp
- This is a complete 32 candela standard unit
- Available in various voltages



SITELITES/AVIATION WARNING BEACONS







• The S2SL/NAV/-R NAVLED - Navigational LED E27

Product Code	Voltage (V)
L0000104	12
L0000105	24
L0017640	48
L0017641	230
Characteristics	Specifications
Characteristics Supply Input	Specifications 220 VAC or 48VDC < 10W
Supply Input	220 VAC or 48VDC < 10W



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



SITELITES/AVIATION WARNING BEACONS





S2SL/DAYLITE SENSOR

Product Code: L0000101

- The S2SL/DAY is an UV stablised daylite sensor with IP54 protection
- Switching level ON ± -60 lux
- Switching level OFF ± -90 lux
- Switching delay 20-30 sec
- SABS 1777
- Voltage: 48V
- Model: S2SL/DAY Also available in:
- I2V
- 12 V 24 V
- 110V

•

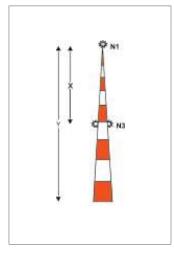
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- Built to order
 - Minimum order quantity: 10

INSTALLATION OF LIGHTS ON OBSTACLES

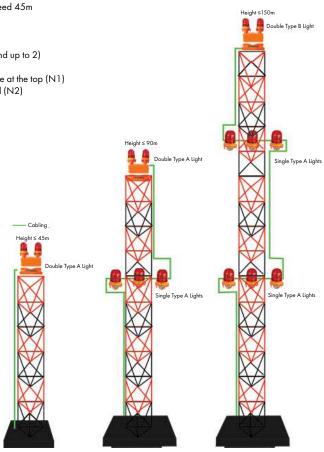
CABLING

- 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 seperate 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) = Y (Meters) 45
- Example Y (Total height) = 60m Number of stages (N) = 60 = 1.33 (thus round up to 2) 45
- 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)





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) Ud 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 and the Disclaimer which is set out at the end of this catalogue apply