

TEMBREAK MCCB ACCESSORIES

Frame Size		125A	160 - 250A	400 - 630A	800A	1250 - 1600A
Auxiliary Switches		E125/S125	E250/S250	E400/S400/S630	XS800	XS1250/XS1600
General purpose	Aux 1C/O	A000348	A000348	A000348	A215001005	A212001006
	2C/O	-	-	-	A215001015	A212001016
	3C/O	-	-	-	A215001025	A212001026
Rating		3A @ 240V			5A @ 250V; 3A @ 500V	
Heavy Duty	N/O	A000300	A000300	A000300	-	-
	4A @ 240V; 1A @ 500V	N/C	A000317	A000317	A000317	-
Alarm Switches						
General purpose	Aux Alarm					
	1C/O 1C/O	A000744	A000744	A000744	A215007070	A212001071
	Rating	3A @ 240V			5A @ 250V; 3A @ 500V	
Heavy Duty	N/O	A000706	-	-	-	-
	4A @ 240V; 1A @ 500V	N/C	A000713	-	-	-
Shunt Trips						
AC100-120V	S000904	S000904	S000904	S0215002006	S0215002007	
AC200-240V	S000911	S000911	S000911	-	-	
DC24V	S000935	S000935	S000935	S215002032	S212002033	
Other Voltages available ex-indent (See Terasaki short form catalogue)						
Undervoltage Trips						
Instantaneous Type	AC100-120V	U001208	U001208	U001208	U215002067	U212002068
	AC200-240V	U001215	U001215	U001215	U215002075	U212002076
	DC24V	U001239	U001239	U001239	U215002093	-
500mS	100-120V	-	-	-	U215002119	U212002120
	200-240V	-	-	-	U215002127	U212002128

Other Voltages available ex-indent • For Maximum Configurations see Terasaki Shortform Catalogue

External Operating Handles		Frame Size	125A	160 - 250A	400 - 630A	800A	1250A	1600A
Door Mount IP54	Black Daros Handle	120-45-0200-01	120-45-0200-01	121-45-0202-01	121-45-0204-01	121-45-0206-01	121-45-0208-01	
Door Mount IP54	Black Handle	H758294	H752193	H754197	H215005378	H211005382	H211005382	
Door Mount IP65	Black Handle	H758331	H728990	H754234	H215005379	H211005383	H211005383	
Breaker Mount IP3X		H727993	H726347	H727061	-	-	-	
Padlock Attachment	Handle Locks	H037016	H037016	H037207	H215011004	H211011005	H211011005	
Padlock Attachment	Slide Locks + Hat Stand	TLSB-125	TLSB-250	TLSB-630	TLSB-800	-	-	



Motor operators		Frame Size	125A	160-250A	400-630A	800A	1250-1600A
To fit TB2 MCCBs	AC100-110V	MO755606	MO755705	-	-	-	-
	AC 100-240V	-	-	MO756009	-	-	-
	AC 230 - 240V	MO755620	MO755729	-	MO215008024	MO212008025	
	DC 24V	MO755637	MO755736	MO756016	MO215008054	MO212008055	
To fit XS MCCBs		Other voltages available ex-indent					

Mechanical & Electrical Interlocks		Frame Size	125A	160-250A	400-630A	800A	1250-1600A
Slide Type	Slide Type Mech. Int. Front Rear Connection 3P (*1)	M033513	M033605	M033704	M211009023		See below
	Link Type Mech. Int. Right Side (*2)	M033520	M033612	M033711	-	-	-
	Link Type Mech. Int. Left Side 3P (*2)	M035005	M035104	M035265	-	-	-
	Link Type Mech. Int. Left Side 4P (*2)	M035012	M035111	M035272	Rear Interlock		See below
Rear Mechanical Interlock Toggle Type					1250	1600	
					M211009025	M211009027	
					M211009036	M211009037	

Covers		125A	160 - 250A	400 - 630A	800A	1250A-1600A
Terminal Covers for Front Connection 3P 2 Covers	C080425	C080456	C080807	C215004015	C211004020	
Terminal Covers for Front Connection 4P 3 Covers	C080432	C080463	C080814	-	-	
Interpole Barriers 2 Pieces per 3P MCCB	C043062	C043161	C043338	C215004042	C211004042	
Door Flange	C044908	C044908	C045400	C215005160	C211005161	



ISOLATORS & INTERLOCKED MCCBs

Isolators	S125-NN	S160-NN	S250-NN	S400-NN	S630-NN	XS800-NN	XS1250-NN
3 Pole Isolator							
4 Pole Isolator							
Early make, Late break Neutral	S125-NN4	S160-NN4	S250-NN4	S400-NN4	S630-NN4	XS800-NN4	XS1250-NN4



Ratings	Amps	125A	160A	250A	400A	630A	800A	1250A
Rated Current	AC	690V	690V	690V	690V	690V	690V	690V
Rated Voltage Ue	AC	690V	690V	690V	690V	690V	690V	690V
Rated short circuit making capacity Peak		3.6kA	6kA	6kA	9kA	9kA	15kA	32kA
Rated short time current	0.3 seconds	2kA	3kA	3kA	5kA	5kA	9.6kA	15kA

Dimensions	w - 3-Pole	w - 4-Pole	h	d1	d2	125A	160A	250A	400A	630A	800A	1250A
	90mm	105mm	105mm	140mm	140mm	210mm	210mm					
	120mm	140mm	140mm	185mm	185mm	280mm	280mm					
	155mm	165mm	165mm	260mm	260mm	273mm	370mm					
	68mm	68mm	68mm	103mm	103mm	103mm	120mm					
	92mm	92mm	92mm	145mm	145mm	145mm	171mm					

For accessories see CB	S125-NJ	S160-NJ	S250-NJ	S400-NJ	S630-NE	XS800-NJ	XS1250-SE
Back-Up Circuit Breaker							
Maximum switching current	AC 750A	1000A	1500A	2400A	3780A	4800A	7500A

MOTORISED INTERLOCKED MCCBS

Motorised, Electrical & Mechanically interlocked

- 160 - 800kVA
- Ideal for gensets
- One part number

Each set comprises:

- 2 x 3-pole MCCBs
- 2 x Motor operators
- 2 x Aux interlocks
- 1 x Mechanical interlock set

Other combinations involving circuit breakers and isolators can be assembled to your order.

Ratings:	Code	Supplied in kit format				Workshop Assembly	
		EEM125*	EEM250*	EEM400*	EEM630*	XSM800*	XSM1250*
Voltage	Ue	525V	525V	690V	690V	690V	690V
Current	In	125A	250A	400A	600A	500-800A	630-1250A
Gensets	Icu 400/415	80kVA	160kVA	250kVA	400kVA	450-500kVA	550-850kVA
Overload Protection:		25kA	25kA	36kA	36kA	65kA	85kA
	Thermal	0.63-1 x In	0.63 - 1 x In	0.63 - 1 x In	0.63 - 1 x In	Adj. 63-1 x In	Electronic
	Instant	Adj. 6-12 x In	Adj. 6-12 x In	Adj. 6-12 x In	Electronic	Adj. 5-10 x In	Electronic
Description	Qty						
Moulded Case MCCB	2	E125-NJ 125A	E250-NJ 250A	S400-CJ 400A	E630-NE 630A	-	-
Motor Operator	2	MO755620	MO755729	MO756009	MO756009	-	-
Auxiliary Switch	2	A000317	A000317	A000317	A000317	-	-
RHS Mechanical Interlock	1	M033520	M033612	M033711	M033711	-	-
LHS Mechanical Interlock	1	M035005	M035104	M035265	M035265	-	-
Dimensions:	w	240	270	340	340	420	420
	h	155	165	260	260	340	530
	d	170	170	233	233	300	360
	E125	E250	S400	E630	XS800	XS1250	

For accessories & further specs, see CB *Add Control Voltage for Motorised Operators :230VAC or 24VDC eg EEM400 230VAC

1100V MCCBs

EXTENDED RANGE

Series XV

3-Pole	XV125-NJ	XV250-NJ	XV400-NE	XV630-PE	XV800-NE
Current	20A (12.5-20) 4kA	250A (160-250)	250A (125-250)	630A (315-630)	800A (400-800)
Rating	32A (20-32) 4kA		400A (200-400)		
In	50A (32-50) 4kA				
	63A (40-63) 6kA				
	100A (63-100) 6kA				
	125A (80-125) 6kA				

AC Breaking Capacity:	Icu 1100V	4/6kA	6kA	12.5kA	18kA	18kA
Protection:	Thermal	Adj 0.63-1 x In	Adj 0.63-1 x In	Electronic	Electronic	Electronic
	Magnetic (Inst.)	Fixed 13 x In	Fixed 13 x In			
Dimensions	h	155mm	165mm	260mm	273mm	273mm
	d1	86mm	103mm	103mm	103mm	103mm
	d2	104mm	124mm	145mm	145mm	145mm
	w	90mm	105mm	140mm	210mm	210mm
	Max depth with VDH	373mm	390mm	385mm	385mm	385mm

Auxiliary contacts
Auxiliary = Aux
Alarm (Trip only) = Alarm

Accessories

Frame Size	125A	160-250A	400A	600-800A
Aux				
Alarm				
1 C/O	A211001002	A212001003	A212001004	A215001005
2 C/O	A211001012	A212001013	A212001014	A215001015
3 C/O	-	-	A212001024	A215001025
- 1 C/O	A212001067	A212001068	A212001069	A215001070
1 C/O 1 C/O	A212001039	A212001040	A212001041	A215001042
Rating	3A @ 250V; 0.4A @ 500V		5A @ 250V; 3A @ 500V	

Undervoltage Trips	Inst:	100-120VAC	200-240VAC	500mS	100-120VAC	200-240VAC
		U212002064	U212002065		U211002066	U215002067
		U212002072	U212002073		U211002074	U215002075
		U212002116	U212002117		U211002118	U215002119
		U212002124	U212002125		U211002126	U215002127

Other voltages available ex-indent.

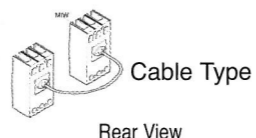
Shunt Trips		100-115VAC	200-480VAC	24VDC
		S212002003	S212002004	S211002005
		S212002011	S212002012	S211002013
		S212002029	S212002030	S212002031
		S215002006	S215002014	S215002032

Other voltages available ex-indent.

Covers	Terminal Covers 3 Pole (set of 2)	Interpole Barriers (set of 2)	Door flange
	C212004006	C211004010	C212004016
	C211004038	C211004040	C215004042
	C211005159	C211005159	C211005160
	C215005160		C215005160

Mechanical Interlocks	220 - 230VAC	Rear Toggle	1m cable
	M211009015	M211009017	M211009021
			M211009034
	M215009035		M215009035

Rear Type
Mechanical Interlock
Shown fitted to XEM800



Rear View

Handle Mechanisms	Padlock attachment	H211011001	H211011002	H212011003	H215011004
	Varidepth handle IP45	120TEC.8165	120TEC.8265	121TEC.8365	121TEC.8465 (600A)
	DAROS				800A
					121-45-0204-01

Motor operators	220-230VAC	MO215008024	MO212008025
		MO215008054	MO212008055

ON control. Closing spring is electrically released and the MCCB closes.
OFF control. MCCB opens and motor recharges the closing spring.
RESET control. When MCCB is tripped, switching the MCCB OFF starts the motor which recharges the closing spring and resets the MCCB to the OFF position.
Manual operation remains available. MCCB can be padlocked in OFF position

Motor Operator - spring charged (shown fitted to circuit breaker)



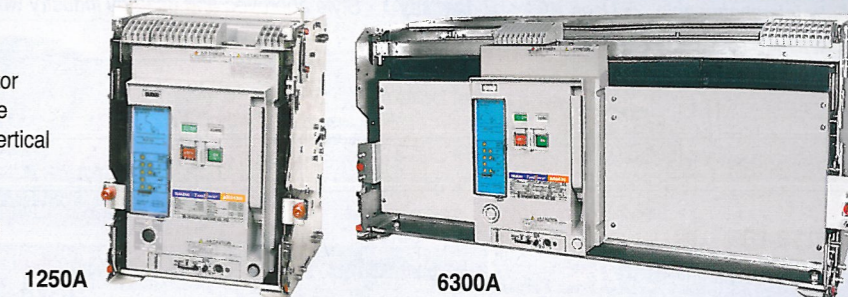
Maximum Configurations

Accessory	MCCB 100-250A	MCCB 400-1600A
Shunt or UVT	1	1
Alarm	1	1
Auxiliary	2	3
Alarm +	1	1
Auxiliary	1	2

AIR CIRCUIT BREAKERS - FIXED & DRAWOUT

- Standard Specification Includes :**
- Protection Relay LSI (AGR-11BL-AL)
 - Dial Type-2 (LCD available on request)
 - 4 AB Auxiliary Contacts
 - Padlockable Mechanical Close & Open Buttons
 - Mechanical Close & Open Indicators
 - Mechanical Indicator for Charged/Discharged State

- Drawout Only**
- Position Indicator
 - Drawout Handle
 - Horizontal or Vertical Connections
 - Chassis
 - Safety Shutters
 - Terminal Cover



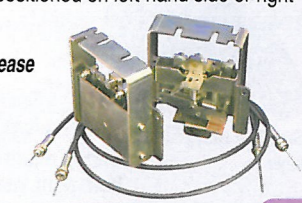
ACB Frame Size	Fixed Type		Drawout Type			
	AR 2	AR3	AR 2	AR3	AR 4	AR6
Rated Current	In 1250 / 1600 / 2000A	2500 / 3200A*	1250* / 1600 / 2000A	2500 / 3200A*	4000A*	5000* / 6300A*
ACB Model	ACDC2F312HH	ACDC3F325VV	ACDC2D312HH*	ACDC3D325VV	ACDC4D340VV*	ACDC6D350VV*
	ACDC2F316HH	ACDC3F332VV*	ACDC2D316HH	ACDC3D332VV*	-	ACDC6D363VV*
	ACDC2F320VV	-	ACDC2D320VV	-	-	-
* Available Ex-Indent						
Rated Operational Voltage	Ue 690V	690V	690V	690V	690V	690V
AC Rated Insulation Voltage	Ui 1000V	1000V	1000V	1000V	1000V	1000V
Ics Service Breaking Capacity (kA, symmetrical r.m.s)	690V 50	65	50	65	85	85
	440V 65	85	65	85	100	120
	400/415V 65kA	85kA	65kA	85kA	100kA	120kA

AIR CIRCUIT BREAKERS ACCESSORY SELECTION

Code	Description	Code	Description
116205103	AC200-240V UVT Inst. Trip Controller - Chassis part.	116108101	Cylinder lock and key
116105100(1*)	UVT Coil only - D/O Body Part. Specify Controller Type. (1*) Body part required with UVT	116108203	Castell lock and key (factory fitted)
		116133001	Lock in Off position
		116108204	Catell Facility
116305103	AC200-240V UVT Inst. Trip Coil & Controller		
116106107	AC/DC220-240V Shunt. Continuously rated & double wound		
116103108	AC240V AGR-1B motor unit. 208-220.		
116103118	AC240V AGR-1B motor unit. 325-440.		
116104108	Closing Coil AC240V.		
116226005	208-12S 3P Fixed 1/2 Set VC. Vertical Terminals.		
116226011	216S 3P Fixed 1/2 Set VC. Vertical Terminals.		
116226015	220S 3P Fixed 1/2 Set HC. Horizontal Terminals.		
116226022	325-32S 3P 1/2 Set HC TOP. For Fixed ACB.		
116226023	325-32S 3P 1/2 Set HC BTM. For Fixed ACB.		
116226011	216S 3P DO 1/2 Set VC. Vertical Terminals.		
116226015	220S 3P DO 1/2 Set HC. Horizontal Terminals.		
116226022	325-32S 3P DO 1/2 Set HC TOP. Horizontal Terminals.		
116226023	325-32S 3P DO 1/2 Set HC BTM. Horizontal Terminals.		
116218001	Main Shutter/H 08-20 3P 1/2Set. For Horizontal Connections.		

Mechanical Interlocks Kits - Cable Type. Interlocking is possible between any frame sizes within the Tempower2 range

Code	Description	Code	Description
116311906	2 Way Vertical	116311908	Type-B Two - 2 Mains & 1 Bus Coupler
116311907	Type-C Horizontal	116311909	Type-A - Generator interlocked with 2 mains supplies mains not interlocked for horizontal interlocking 3 ACB's



For other pitch/ cable/ rod lengths, please contact AC/DC Dynamics

RB2 PUSHBUTTONS & PILOT LIGHTS 22mm Ø

• Fully interchangeable • Uses '455' standard key • Style approved and used by industry world-wide

Pushbutton Heads Only

Colour	Illuminated Pushbuttons Heads Only IP65				
	Flush IP65	Extended IP65	Booted IP66	Flush Incandescent	Flush LED or Neon
White	RB2-BA1	-	RB2-BP1	RB2-BW31	-
Black	● RB2-BA2	● RB2-BL2	● RB2-BP2	-	-
Green	● RB2-BA3	● RB2-BL3	● RB2-BP3	● RB2-BW33	● RB2-BWL33
Red	● RB2-BA4	● RB2-BL4	● RB2-BP4	● RB2-BW34	● RB2-BWL34
Amber	-	-	-	● RB2-BW35	● RB2-BWL35
Yellow	● RB2-BA5	● RB2-BL5	● RB2-BP5	-	-
Blue	● RB2-BA6	● RB2-BL6	● RB2-BP6	● RB2-BW36	● RB2-BWL36

Mushroom Heads Only IP65

Colour	Head	Spring Return	Twist to Release	Push Pull	Key Release (455)
Black	40Ø	● RB2-BC2	-	-	-
Green	40Ø	● RB2-BC3	-	-	-
Red	40Ø	● RB2-BC4	● RB2-BS54	● RB2-BT54	● RB2-BS14
Red	60Ø	-	● RB2-BS64	-	-

Selector Switch Heads Only IP65

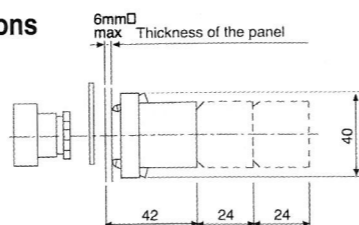
Description	Key Switch Heads only (Raas 455 key) IP65			
	Short Handle	Long Handle	Illuminated	Illuminated
2 Position: Maintained	● RB2-BD2	● RB2-BJ2	● RB2-BK123	● RB2-BK124
Spring Return	● RB2-BDR2	● RB2-BJR2	-	-
3 Position: Maintained	● RB2-BD3	● RB2-BJ3	● RB2-BK133	● RB2-BK134
Spring Return	● RB2-BDR3	● RB2-BJR3	-	-

Key Switch Heads only (Raas 455 key) IP65

Position	Type	Key Removal	Code
2 position	Maintained	Left	● RB2-BG2
		Right	● RB2-BG02
		All	● RB2-BG4
		● RB2-BG6	
3 position	Maintained	Centre	● RB2-BG3
		Left - Right	● RB2-BG5
		All	● RB2-BG0
		● RB2-BG09	
Spring return to left	Spring return to centre	Left	● RB2-BG9
		Centre	● RB2-BG7
		Centre	● RB2-BG8
		Centre	● RB2-BG8



Dimensions



General Characteristics - RB2 Pushbuttons

Current rating: 1th 10A. Rated insulation Voltage: Ui 500V
 Mechanical life: Mushroom operators 300,000 ops. All others 1,000,000 ops
 Ambient: -25°C to +70°C Mounting Matrix: 40H x 30W
 Contacts: self cleaning, slow acting, positive opening
 Conformity: IEC 947-5-1. Approvals: UL, CE

RB2 PUSHBUTTONS & PILOT LIGHTS 22mm Ø

Pilot Lights Heads Only IP65

Lamp Compatibility	Pilot Lights Heads Only IP65	
	Incandescent	LED or Neon
White	RB2-BV01	-
Green	● RB2-BV03	● RB2-BVL03
Red	● RB2-BV04	● RB2-BVL04
Amber	● RB2-BV05	● RB2-BVL05
Blue	● RB2-BV06	● RB2-BVL06

Double Pushbuttons Head Only IP40

Description	Colour	Code
Double button	Green Red	RB2-BA87
Double button & pilot light	Green Amber Red	RB2-BW857

Accessories

Boots for illuminated pushbuttons (RB2-BW)	Clear	RB2-RC-L
Spare Silicone rubber boots for booted flush pushbuttons (RB2-BP)	Black	● RB2-BP002
	Green	● RB2-BP003
	Red	● RB2-BP004
	Yellow	● RB2-BP005
	Blue	● RB2-BP006
	Clear	RB2-BP007
Boot for flush push-button	Clear	RB2-RCS
Spare fixing collar		RB2-B
Spare keys (455)		RB2-K455
Padlock attachment only for RB2-BL4	EPL-3	
Padlock attachment only for RB2-BS54	EPL-5	

Legend Plates Aluminium

Description	Code
AUTO-HAND	● RB2-BY2364
AUTO-O-HAND	● RB2-BY2385
BLANK	● RB2-BY2300
DOWN	● RB2-BY2308
STOP	● RB2-BY2304
FORWARD	● RB2-BY2305
INCH	● RB2-BY2321
OFF	● RB2-BY2312
OFF-ON	● RB2-BY2336

Black - White on black



Contact Blocks

Description	Code
Contact block c/w fixing collar	
1N/O	● RB2-BZ101
1N/C	● RB2-BZ102
2N/O	● RB2-BZ103
2N/C	● RB2-BZ104
1N/O + N/C	● RB2-BZ105

Add on contact blocks 10A lth

N/O	● RB2-BE101
N/C	● RB2-BE102

Lamp Blocks

(for both pilot lights and illuminated pushbutton heads)

Description	Rated Voltage	Code
Direct connect 2.6W max (lamp excluded)	230V max	RB2-BV6
with resistor 130V BA9s (lamp included)	220V AC	RB2-BV7
with fixed ultra high bright cluster LED	Green Red Amber Blue	● RB2-BVL73* ● RB2-BVL74* ● RB2-BVL75* ● RB2-BVL76*

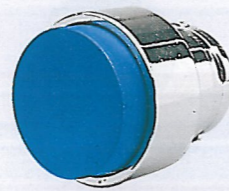
*Specify voltage: 24V, 48V, 110VAC, 110VDC, 240VAC

Lamp extraction tool RB2-X13

For lamps, see page 130

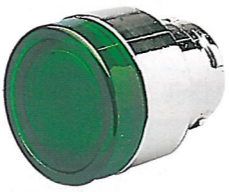
PUSH BUTTONS, PILOT LIGHTS & SELECTOR SWITCHES 22mm Ø

Colour	Code
Push Buttons (heads only)	
Black	● ECX1100
Red	● ECX1101
Green	● ECX1102
Yellow	● ECX1103
Blue	● ECX1104
White	ECX1105



Colour	Code
Extended Push Buttons	
Black	● ECX1110
Red	● ECX1111
Green	● ECX1112
Yellow	● ECX1113
Blue	● ECX1114

Colour	Code
Pilot Lights	
Red	● ECX1231
Green	● ECX1232
Yellow	● ECX1233
Blue	● ECX1234
Clear	ECX1235



Colour	Code
Illuminated Push Buttons	
Red	● ECX1201
Green	● ECX1202
Yellow	● ECX1203
Blue	● ECX1204
Clear	ECX1205

Description	Colour	Code
Emergency Stops		
With latch twist to release	Red Ø 40	ECX1131
	Black Ø 40	ECX1130
	Red Ø 60	ECX1136
Momentary	Red Ø 40	ECX1135
Momentary	Red Ø 60	ECX1137
Push Pull	Red Ø 40	ECX1146

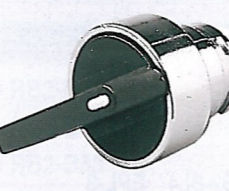


Description	Colour	Code
Illuminated Emergency Stops		
With latch twist to release	Red	ECX1226
Momentary	Red	ECX1221

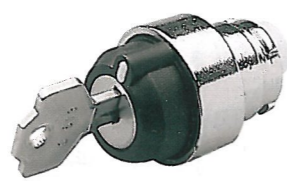
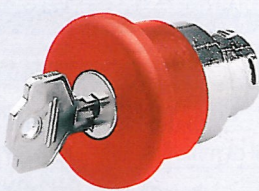
Description	Code
Selector Switch Short Handle	
2 position Maintained	ECX1300
Return from right	ECX1310
Maintained	ECX1320
3 position Return to centre position	ECX1330
Return from left	ECX1340
Return from right	ECX1345



Description	Code
Selector Switch Long Handle	
2 position Maintained	ECX1350
Return from right	ECX1360
Maintained	ECX1370
3 position Return to centre position	ECX1380
Return from left	ECX1390
Return from right	ECX1400



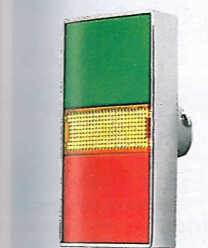
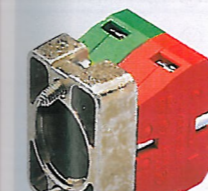
Description	Colour	Code
Emergency Stops with Key		
With latch Key release	Red Ø 40mm	ECX1141
Spare Key		ECX-KEY



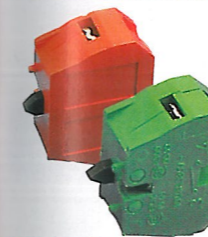
Type	Key Removal Position	Code
Key Switches		
2 position	Maintained Left	ECX1410
	Right-Left	ECX1420
	Spring return from right Left	ECX1430
3 position	Maintained Centre	ECX1440
	Right-Left	ECX1450
	Left	ECX1460
	In all positions	ECX1470
Spring return to centre position	Centre	ECX1480
Spare Key		ECX-KEY

PUSH BUTTONS, PILOT LIGHTS 22mm Ø IP65

Description	Code
Contact Blocks with Support Base	
1 contact block @ 10A	1N/C ECX1031
	1N/O ECX1032
2 contact blocks @ 10A	2N/C ECX1033
	2N/O ECX1034
	1N/O +1N/C ECX1035



Description	Code
Double button with light	
Head only with flush red button	ECX1153
Head only with extended red button	ECX1157
Double button no light	
Head only with flush red button	ECX1150
Head only with extended red button	ECX1154

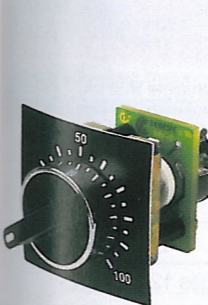


Description	Code
Add-on Contact Blocks 10A	
N/C Red	ECX1030
N/O Green	ECX1040



Description	Colour	Material	Code
Boots			
Protection cap for flush non-illuminated pushbuttons	Black	● Neoprene	ECX1700
	Red	● Neoprene	ECX1701
	Green	● Neoprene	ECX1702
	Yellow	● Neoprene	ECX1703
	Blue	● Neoprene	ECX1704
Protection cap for extended pushbuttons	Colourless	Silicone	ECX1705
	Colourless	Silicone	ECX1706

Description	Code
Plugs 22mm Ø	
Plug for unused holes	ECX1490
Supplied with O-ring and mounting screw. For Econo Plugs see pg. 321.	



Code	Description
22mm Panel Mount Potentiometers Single Turn (Complete with legend plate)	
ECX2300-1K	1KΩ Single turn
ECX2300-5K	5KΩ Single turn
ECX2300-10K	10KΩ Single turn
ECX2300-20K	20KΩ Single turn
ECX2640	Spare legend

Description	Wiring diagram	Rated voltage	Code
Lampholders with Support Base			
Direct feed (BA9S lamp not included) 2.6W max		400V~ (Max)	ECX1050

Description	Wiring diagram	Rated voltage	Code
Lampholders with Support Base			
For cluster LED (24V LED to be ordered separately - see page 113)		48V	ECX2001
		110V	ECX2002
		230V	ECX2003

Description	Wiring diagram	Rated voltage	Code
Flashing device (lamp included)			
With resistor (130V - 2.6W lamp included)		250V ÷	ECX1060
		250V ~	
		24VAC	ECX1080
		48VAC	ECX1081
110V to 130VAC			ECX1082
		230V	ECX1083
		24VDC	ECX1084

Description	Code
Spare Support Base	
	ECX1029

Description	Code
Joy Sticks (complete with Contact Blocks)	
2 position Momentary	ECX1510
Maintained	ECX1512
4 position Momentary	ECX1520
Maintained	ECX1524



Code	Padlock Attachment
EPL-3	Padlock attachment only for extended push button ECX1111
EPL-6	Padlock attachment only for ECX1131/30/36



PLASTIC BEZEL 22mmØ CONTROL DEVICES

Heads IP65

Description	Code
Push button	
Flush Black	● LAY5-EA2
Green	● LAY5-EA3
Red	● LAY5-EA4
Yellow	● LAY5-EA5
Blue	● LAY5-EA6
Extended Red	● LAY5-EL4
Push button illuminated	
Green	● LAY5-EW33
Red	● LAY5-EW34
Yellow	● LAY5-EW35
Blue	● LAY5-EW36
Push button booted	
Black	● LAY5-EP2
Green	● LAY5-EP3
Red	● LAY5-EP4
Yellow	● LAY5-EP5
Blue	● LAY5-EP6
Mushroom head push button	
Momentary Ø40mm	● LAY5-EC4
Twist release Ø40mm	● LAY5-ES54
Twist release Ø60mm	● LAY5-ES64
Key release Ø40mm	● LAY5-ES14
Push pull Ø40mm	● LAY5-ET4

Ui = 600V
Ith = 10A

Description	Code
Contact & Lamp Blocks	
Complete with mounting collar	
1N/O	● LAY5-EZ101
1N/C	● LAY5-EZ102
2N/O	● LAY5-EZ103
2N/C	● LAY5-EZ104
1N/O+1N/C	● LAY5-EZ105
Add-on	
1N/O	● LAY5-BE101
1N/C	● LAY5-BE102
Direct connecting Order BA9s lamp separately Pilot light only	● LAY5-EV6
Accepts contact blocks	● LAY5-EW06

Heads IP65

Description	Code
Pilot lights	
Green	● LAY5-EV03
Red	● LAY5-EV04
Yellow	● LAY5-EV05
Blue	● LAY5-EV06
Selector switches – standard short lever	
2 posn maintained	● LAY5-ED2
2 posn spring return to left	● LAY5-ED4
3 posn maintained	● LAY5-ED3
Key operated	Key removal
2 posn maintained	Left ● LAY5-EG2
Spring return to left	Left ● LAY5-EG4
2 posn maintained	all ● LAY5-EG6
3 posn maintained	All ● LAY5-EG0
3 posn maintained	Centre ● LAY5-EG3
Spring return left & right to centre	Centre ● LAY5-EG5
Double push button head	LAY5-EW8325
With 1N/O + 1N/C contact block and provision for direct connected lamp. BA9s MAX 250VAC	

Accessories

Description	Code
Re-set Button – 125mm depth	Red R-2
	Green R-3

Padlock Attachments

For Flush Button	EPL-4
For Extended Button	EPL-3
For LAY5-ES54 (Emg. twist release)	EPL-5

Spare Mounting Collar LAY5-E

Other Accessories
Lamps: page 130, Enclosures: page 131, Legend Plates pages 125 & 130, Hole Plugs page 321.

PUSHBUTTONS & PILOT LIGHTS

Code	Description	LED
Cluster LED lights 22mm hole mounting IP65 reduced panel depth – 35mm long body, shrouded terminals		
ALED-R*	● Red	<p>* Specify voltage with order: 12VAC/DC, 24VAC/DC, 48VAC/DC, 110VAC/DC, 220VAC, 380VAC</p>
ALED-G*	● Green	
ALED-Y*	● Yellow	
ALED-W*	○ White	
ALED-B*	● Blue	
Cluster LED lights dome type 22mm hole mounting, High surge resistance, High-bright, 120,000hrs		
CLED-1*	● Red	<p>* Specify voltage with order: 12VAC/DC, 24VAC/DC, 48VAC/DC, 115VAC/DC, 230VAC/DC</p>
CLED-2*	● Green	
CLED-3*	● Yellow	
CLED-4*	● Blue	
Economy indicating lights 22mm hole mounting, BA9S fitting		
MK/EL-1*	● Red	<p>* Lamp: Filament 12, 24, 48V. Neon 110, 230VAC & No Lamp (Blank)</p>
MK/EL-2*	● Green	
MK/EL-3*	● Yellow	
MK/EL-4*	○ Clear	
MK/EL-5*	● Blue	
Economy Pushbuttons & Selector Switches 22mm hole mounting, 10A, IP44		
Pushbuttons		
SB7-EA42	● Red 1 N/C pushbutton	
SB7-EA31	● Green 1 N/O pushbutton	
SB7-EA21	● Black 1 N/O pushbutton	
Selector Switches		
SB7-ED21	● Black 1 N/O 2 pos. maintained	
SB7-ED33	● Black 2 N/O 3 pos. maintained	
Miniature Pushbuttons 14mmØ hole mounting		
PB-305A	● Off (on) 3A 250V Red latching	<p>PB-305</p>
PB-305B	● Off (on) 3A 250V Green latching	
PB-305AN	● On - Off 3A 250V Red N/O	
PB-305BN	● Off - On 3A 250V Green N/O	
PB-305CN	● On - Off 3A 250V Red N/C	
Neon indicating lights 10mm hole mounting, 25,000hrs, Solder terminals		
TE1-1	● 90-250VAC Red	
TE1-2	● 90-250VAC Green	
TE1-3	● 90-250VAC Yellow	
TE1-4	○ 90-250VAC Clear	

30mm Ø PUSHBUTTONS & PILOT LIGHTS

Code	Colour	Code	Colour	Code	Description	Code	Description	Code	Colour	Code	Description
AF3	● Green	AM4 (spring return)	● Red	AS2-2P	2 posn, maintained	AK-2PB	2 posn, maintained	PLB3	● Green	S11	1 N/O + 1 N/C c/w locking plate
AF4	● Red	AML4 (twist release)	● Red	AS2-3P	3 posn, maintained	AK-3PA	3 posn, maintained	PLB4	● Red	S12*	1 N/O + 1 N/C no locking plate
								PLB5	● Amber		

Specifications

IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65
------	------	------	------	------	------	------	------

Key removable from all positions
Lamp BA15D 5W 230V max
*For 2 N/O + 2 N/C order S11 and S12

LEGEND PLATES

Plastic legend plates - 22mm Ø

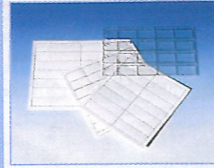
Description	Code	Description	Code
Blank legend plates	MK-100	Trip	MK-109
Start	MK-101	Reset	MK-110
Stop	MK-102	EM Stop	MK-111
Forward	MK-103	Power	MK-112
Reverse	MK-104	Up	MK-113
Off-On	MK-105	Down	MK-114
Hand auto	MK-106	Pump 1 - Pump 2	MK-115
Hand off auto	MK-107	Yellow legend - Disc	ED-60
Run	MK-108	Emergency stop 60mmØ	ED-90
		Emergency stop 90mmØ	ED-90

Special engraving

Order blank legend plate MK-100 plus MK-200 per character



15 x 27mm cardboard labels



Legend plates for 22mm devices
Accepts 15 x 27mm cardboard labels

Code	Description	Qty
PTAR22-25	Tag holder Ø 22mm	25

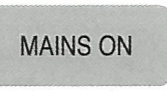
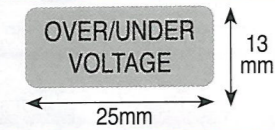
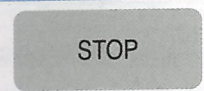
15 x 27mm Cardboard Labels

Manual Marking or with Printer, typewriter. Complete with cardboard and protection glass

Code	Description	Qty
T1527C-50	Cardboard sheet 28 labels per sheet of 15 x 27mm labels	50



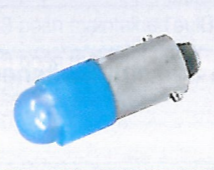
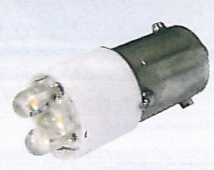
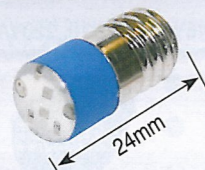
Also see page 109



Special printed Aluminium Foil labels

To suit your needs, sticks on MK-100 blank plate
Label only (printed) MK-201
Blank legend plate MK-100

LAMPS & LEDs



Colour	Code 8 chip BA9S	Code 8 chip E10	Luminous mcd	Current mA	Code 3 chip BA9S	Current mA	Code 1 chip BA9S	Code 1 chip E10	Luminous mcd	Current mA
Red	LED8-R*	E10LED8-R*	80	2.5	LED3-R*	2.5	LED1-R*	E10LED-R*	170	2.8
Green	LED8-G*	E10LED8-G*	30	2.5	LED3-G*	2.5	LED1-G*	E10LED-G*	280	2.8
Yellow	LED8-Y*	E10LED8-Y*	80	2.5	LED3-Y*	2.5	LED1-Y*	E10LED-Y*	90	2.8
Blue	-	E10LED8-B*	30	2.5	LED3-B*	2.5	LED1-B*	E10LED-B*	50	2.8
White	-	-	-	-	LED3-W*	2.5	LED1-W*	E10LED-W*	200	2.8

*Voltages available (to be specified)

12V (12VAC/DC), 24V (24VAC/DC), 48V (48VAC/DC), 110V (110V-130VAC/DC), 230V (200-240VAC/DC).

Current and Luminous shown for 220V only. For other Voltages contact your AC/DC Dynamics Branch, Distributor or see our Web page.

Filament lamps 10 x 28mm long life (BA9S)

Voltage	Power	Code
6V AC/DC	2W	BA9S-6
12V AC/DC	2W	BA9S-12
14V AC/DC	2W	BA9S-14
18V AC/DC	2W	BA9S-18
24V AC/DC	2W	BA9S-24
30V AC/DC	2W	BA9S-30
48V AC/DC	2W	BA9S-48
130V AC/DC	2W	BA9S-130
240V AC/DC	2.4W*	BA9S-240

3,000-5,000 hours Lamp life

Neon Lamps (BA9S)

Lens colour of Pilot Light	Voltage	Code
Red, Yellow, Clear & White	110VAC	BANR-110
Green & Blue	110VAC	BANG-110
Red, Yellow, Clear & White	220VAC	BANR-220
Green & Blue	220VAC	BANG-220
Red, Yellow, Clear & White	380VAC	BANR-380
Green & Blue	380VAC	BANG-380

25,000 hours Lamp life

Midget Grooved LED's (15mm x 5mm Ø)



Colour	Volts	Code	Volts	Code	Volts	Code
Green	6VDC	50-004-16	12VDC	50-004-19	24VDC	50-004-22
Red	6VDC	50-004-17	12VDC	50-004-20	24VDC	50-004-23
Yellow	6VDC	50-004-18	12VDC	50-004-21	24VDC	50-004-24

Miniature Panel LED Lamps



Code	ØDia	Description
AD22C-10*-*	10mm	LED Light
AD22C-16*-*	16mm	LED Light

*Add colour required: ●R, ●GN, ●Y, ●W, ●B
*Add voltage required: 12VDC, 24VDC, 110VAC, 230VAC

PUSHBUTTON STATIONS

Plastic Pushbutton Control Station Enclosures IP65

No. of holes	Grey Cover	Size H x W x D	Yellow Cover	Size H x W x D
1	● MK27101	82 x 66 x 65	● MK27111	85 x 75 x 65
2	● MK27102	132 x 82 x 65		
3	● MK27103	171 x 66 x 65		
2 x 3 (3 x 2)	● MK27104	171 x 132 x 65		
4 x 3 (3 x 4)	● MK27105	264 x 171 x 65		

MK27111

Control Station Enclosures

MK27104

MK27105

No. of holes	Grey Cover	Size H x W x D	Yellow Cover	Size H x W x D
1	-	85 x 85 x 105	● LAY5-1YB	
1	-	67 x 67 x 80	● PSAML4	
1	● LAY5-BE01	76 x 76 x 51	● LAY5-JBE01	
2	● LAY5-BE02	104 x 76 x 51	● LAY5-JBE02	
3	● LAY5-BE03	134 x 76 x 51	● LAY5-JBE03	
4	● LAY5-BE04	195 x 76 x 51	● LAY5-JBE04	
5	● LAY5-BE05	237 x 76 x 51		

NEW

NEW

NEW

NEW

NEW

NEW

NEW

NEW

NEW

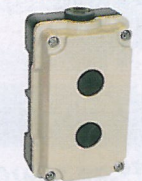
NEW

PSAML4 c/w shroud for emergency stop

Die Cast Aluminium Pushbutton Station Enclosures IP65

RAL 7042 grey epoxy powder coated

Size L x W x D	Holes	For 22mm devices	For 30.5mm devices	Plain cover
90 x 78 x 52	1	● RM-1YB	-	-
90 x 78 x 52	1	● RM-1GB	-	-
137 x 78 x 52	2	● RM-2GB	-	-
106 x 106 x 81	1	● SAM103-B	● A3P0909.01	● SAM203-B
126 x 79 x 75	2	● SAM106-B	● A3P0915.02	● SAM206-B
206 x 106 x 81	3	● SAM107-B	● A3P0920.03	● SAM207-B
256 x 91 x 75	4	● SAM109-B	● A3P0925.04	● SAM209-B



Assembled Pushbutton Stations

Description	LAY5 Plastic Enclosure	RB2 Plastic Enclosure	RB2 Die Cast Enclosure
1 Way control stations			
E-stop (mushroom twist to release) with pushbutton protection	● E/ST-10	● R/ST-10	-
E-stop (mushroom spring return)	● E/ST-11	● R/ST-11	● RM/ST-11
E-stop (mushroom twist to release)	● E/ST-12	● R/ST-12	● RM/ST-12
E-stop (mushroom key release)	● E/ST-13	● R/ST-13	● RM/ST-13
E-Stop (illuminated latching 230V)	● E/ST-14	● R/ST-14	● RM/ST-14
Stop	● E/ST-15	● R/ST-15	● RM/ST-15
Stop padlockable	● E/ST-16	● R/ST-16	● RM/ST-16
Start	● E/ST-17	● R/ST-17	● RM/ST-17
2 posn key selector switch (0-1)	● E/ST-18	● R/ST-18	● RM/ST-18

NEW

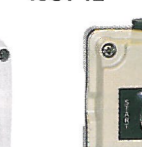


E/ST-10

E/ST-11

R/ST-12

RM/ST-12



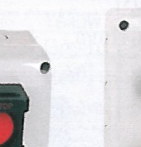
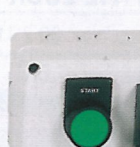
E/ST-16

R/ST-17

RM/ST-17

2 Way control stations

Description	LAY5 Plastic Enclosure	RB2 Plastic Enclosure	RB2 Die Cast Enclosure
Start/Stop	● E/ST-21	● R/ST-21	● RM/ST-21
Start/Stop padlockable	● E/ST-22	● R/ST-22	● RM/ST-22
Start/E - Stop (mushroom spring return)	● E/ST-23	● R/ST-23	● RM/ST-23
Start/E - Stop (mushroom twist to release)	● E/ST-24	● R/ST-24	● RM/ST-24
Up/Down	● E/ST-25	● R/ST-25	● RM/ST-25
Start/E - Stop (mushroom key release)	● E/ST-26	● R/ST-26	● RM/ST-26



E/ST-22

R/ST-23

RM/ST-21

3 Way control stations

Description	LAY5 Plastic Enclosure	RB2 Plastic Enclosure	RB2 Die Cast Enclosure
With standard stop pushbutton:			
Start/Stop/Run light (Green 220/240V neon)	● E/ST-31	● R/ST-31	● RM/ST-31
Fwd/Stop/Rev	● E/ST-32	● R/ST-32	● RM/ST-32
Up/Stop/Down	● E/ST-33	● R/ST-33	● RM/ST-33
Fwd/E-Stop/Rev	● E/ST-35	● R/ST-35	● RM/ST-35

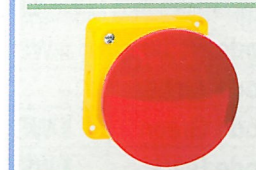


E/ST-32

R/ST-32

RM/ST-32

Palm Push 90mm Ø



EV90 Plastic Enclosure IP65

Alternatively, custom assembled control stations can be supplied in horizontal or vertical format with the option of customised engraving.

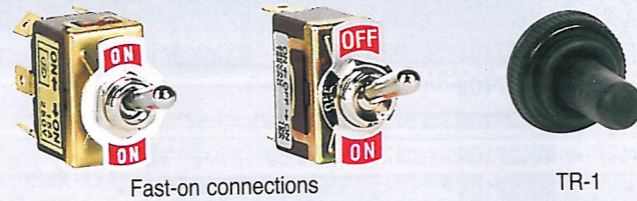
PUSHBUTTONS & PILOT LIGHTS

PUSHBUTTONS & PILOT LIGHTS

APPLIANCE CONTROLS

Toggle switches 12mm hole mounting, 16Amps @ 250VAC contacts

Stay Put	Spring Return
T11CS (On-off) SPST	ST11CS
T12CS (On-on) SPDT	ST12CS
T13CS (On-off-on) SPDT	ST13CS
T21CS (On-off) DPST	ST21CS
T22CS (On-on) DPDT	ST22CS
T23CS (On-off-on) DPDT	ST23CS
TR-1	Rubber Boot for Toggle Switches IP65



Fast-on connections

TR-1

Stainless Steel Pushbuttons & Pilot Lights 22mmØ IP66



Type	Colour	Illuminated Pushbuttons		Pushbutton	
		Low Profile	Protruding		
Code	● Red ● Green ● Amber ● Blue	MP0001.T.R MP0001.T.GN MP0001.T.A MP0001.T.BL	MSW1941-R MSW1941-GN MSW1941-A MSW1941-BL	MP0031	MP0031.2
Current/Volts		20mA @ 3.6V*	50mA / 9-30VDC		
Size		22mmØ x 32mm(L)	22mmØ x 37.2mm(L)	22mmØ x 30mm(L)	22mmØ x 30mm(L)
Panel Cutout Size		19.2mmØ		19.2mmØ	
Contacts		SPDT 50mA@ 24VDC	SPDT 1A@ 24VDC	NO/NC 5A @ 250V	

LED's (Rating @ 20mA) & Technical Specifications: MP0001

Colour	Red	Green	Amber	Blue
Luminous Intensity	900mcd	1500mcd	220mcd	1500mcd
Supply voltage*	1.85V	3.0V	2.0V	3.4V

Resistor Values for MP0001

For all colour push buttons

12V	100Ω	0.5W
24V	220Ω	0.5W

*A resistor in series must be connected by the user

Rocker Switches

Type	On/Off SPST No Lamp		On/Off SPST Illuminated		On/Off DPST No Lamp	On/Off DPST Illuminated	On/Off/On SPDT Illuminated
	Black	White	Black	White	Black	Black	Black
Code Red	R12-2AR	R13-2AR	R12-2CR	R13-2CR	R9-49AR	R9-49ALR	R12-3BLR
Code Amber	R12-2AO	R13-2AA	R12-2CO	R13-2CA	R9-49AO	R9-49ALO	R12-3BLO
Code Green	R12-2AG	-	R12-2CG	-	R9-49AG	R9-49ALG	R12-3BLG
Code Black	R12-2ABK	-	R12-2CBK	-	R9-49ABK	-	R12-3BLBK
Hole Size	30 x 11mm		30 x 11mm		30 x 25mm	30 x 25mm	30 x 11mm

Type	On/Off SPST No Lamp	On/Off SPST Illuminated	On/Off DPST No Lamp	On/Off/On SPST No Lamp	On/Off/On DPST No Lamp	Lamp only	On/Off SPST Round - No Lamp
	Code Red	WS1-1R	WS1-2R	WS3-1R	WS3-3R	WS3-5R	WL03-5R
Code Amber	-	WS1-2A	-	-	-	WL03-5A	-
Code Green	WS1-1G	WS1-2G	-	-	-	WL03-5G	-
Code Black	WS1-1BK	-	WS3-1BK	WS3-3BK	WS3-5BK	-	JS-606-2A
Hole Size	19.2 x 12.9mm	19.2 x 12.9mm	19.2 x 21.9mm	19.2 x 12.9mm	19.2 x 21.9mm	30 x 11mm	20.2mmØ

16mmØ PUSHBUTTONS & PILOT LIGHTS

	PILOT LIGHTS		
	Round	Square	Rectangle
Lamps not included			
	Bezel 18mmØ	Bezel 18 x 18mm	Bezel 18 x 24mm
Red	D16PL-RR	D16PL-SR	D16PL-TR
Green	D16PL-RG	D16PL-SG	D16PL-TG
Yellow	D16PL-RY	D16PL-SY	D16PL-TY
Amber	D16PL-RA	D16PL-SA	D16PL-TA
Blue	D16PL-RB	D16PL-SB	D16PL-TB
White	D16PL-RW	D16PL-SW	D16PL-TW

	PUSH BUTTONS				EMERGENCY STOP	
	Illuminated	Non Illuminated	Illuminated	Non Illuminated	Illuminated	Non Illuminated
Lamps not included						
Momentary (Non latching)	D16LM-R**	D16PM-R**	D16LM-S**	D16PM-S**	D16LM-T**	D16PM-T**
Alternate (Latching)	D16LA-R**	D16PA-R**	D16LA-S**	D16PA-S**	D16LA-T**	D16PA-T**

*Add lens colour: ● R (Red), ● GN (Green), ● Y (Yellow), ● A (Amber), ● BL (Blue), ○ W (White)
*Add number of contact: 1 = 1 NO + 1 NC; 2 = 2 NO + 2 NC; 3 = 3 NO + 3 NC; 4 = 4 NO + 4 NC

ACCESSORIES

Description	Code
Lamp Extractor	50-005-01
Mounting Wrench	50-006-01
Lens Remover	50-007-01
Spare Lens	Round: 50-001-11, 50-001-12, 50-001-13, 50-001-14, 50-001-15, 50-001-16 Rectangle: 50-002-11, 50-002-12, 50-002-13, 50-002-14, 50-002-15, 50-002-16 Square: 50-003-11, 50-003-12, 50-003-13, 50-003-14, 50-003-15, 50-003-16
Protection Cap	For square head (90°): 50-011-01 For square head (180°): 50-011-11 For rectangular head (90°): 50-011-02 For rectangular head (180°): 50-011-12

LAMPS

Description	Code
Incandescent	48V AC/DC 25mA: 50-004-06 28V AC/DC 40mA: 50-004-05 14V AC/DC 40mA: 50-004-03 6V AC/DC 40mA: 50-004-01
Neon	110V AC Green: 50-004-11 Red: 50-004-12 230V AC Green: 50-004-13 Red: 50-004-14
LED	6V DC Green: 50-004-16 Red: 50-004-17 Yellow: 50-004-18 12V DC Green: 50-004-19 Red: 50-004-20 Yellow: 50-004-21 24V DC Green: 50-004-22 Red: 50-004-23 Yellow: 50-004-24

Type	Contact block diagram	Mounting depth	Block colour	Specifications IP40
SPST		29mm	Lamp: Black Contact: Red	Minimum mounting matrix: Round 18 x 18mm Square 18 x 18mm Rectangular h18 x w 24mm
DPST		36.5mm	Lamp: Black Contact: Red	Lamp connections (for DC) a -ve, b +ve Contacts: Snap action double break, silver contacts 5A @ 250VAC 8A @ 125VAC 200mA @ 250VDC 6A @ 24VDC
3PST		44mm	Lamp: Black Contact: Red	
4PST		51.5mm	Lamp: Black Contact: Red	Maximum panel thickness: 8mm Terminals: Solder type, intended for use with 0.75mm² wire max.

PUSHBUTTONS & PILOT LIGHTS

PUSHBUTTONS & PILOT LIGHTS

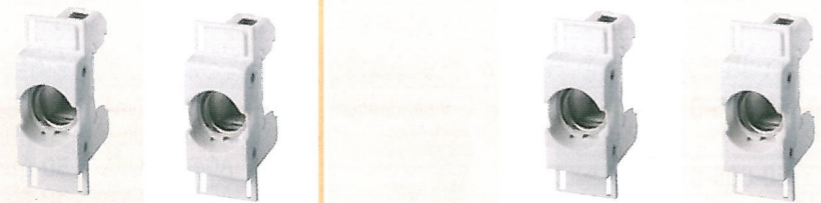
FUSES AND HOLDERS

Bottle Fuses with blown indicator (diazed)

Size	D01-E14	D02-E18	D1 - E16	D11 - E27	D111 - E33
Standard Protection					
IEC269					
Code	E14-*	E18-*	E16-*	E27-*	E33-*
Current					
2A	*2A		*2A	*2A	
4A	*4A		*4A	*4A	
6A	*6A		*6A	*6A	
10A	*10A		*10A	*10A	
16A	*16A		*16A	*16A	
50kA					
20A		*20A	*20A	*20A	
25A		*25A	*25A	*25A	
35A		*35A			*35A
50A		*50A			*50A
63A		*63A			*63A
Voltage AC	400V	400V	500V	500V	500V
Dimensions Overall length	36mm	36mm	50mm	50mm	50mm
Diameter	11mm	14mm	13mm	22mm	26mm
*Add Amp to code					

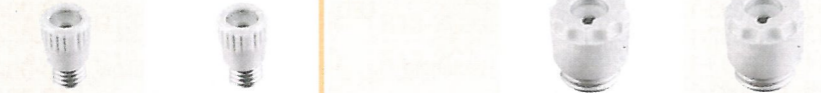
Fuse Holders

Plastic
DIN Mount
Base 400VAC
IEC60269
VDE0636
Order Caps separately



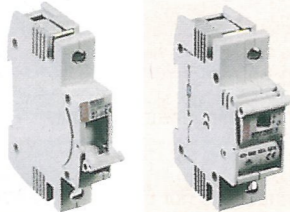
Code 1P	PPD01-1	PPD02-1	-	PPE27-1	PPE33-1
Code 3P	PPD01-3	PPD02-3	-	-	-

Caps



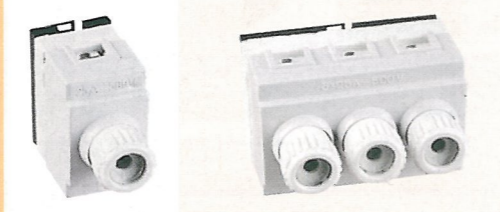
Code	E14-CAP	E18-CAP	-	E27-CAP	E33-CAP
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Fuse Disconnectors - DIN Mount



Code 1P	VLD01-1	STVD02-1
Code 2P	VLD01-2	STVD02-2
Code 3P	VLD01-3	STVD02-3

Fuse Holders c/w Caps - DIN Mount



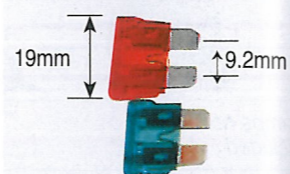
Code 1P	E16/1B	E27/1B	E33/1B
Code 2P	-	-	-
Code 3P	E16/3B	E27/3B	E33/3B

Spare Caps

Code	E16-CAP	E27-CAP	E33-CAP
------	---------	---------	---------

Automotive Fuses

(9.2mm Blade type) 32V



Code/Amps	Colour
AF-2A	Dark Green
AF-3A	Violet
AF-4A	Pink
AF-5A	Tan
AF-7.5A	Brown
AF-10A	Red
AF-15A	Blue
AF-20A	Yellow
AF-25A	Clear
AF-30A	Green
AF-35A	Purple

Inline Fuse Holder

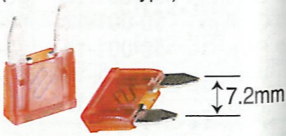
(7.2mm Blade type)



Code V1161

Mini Automotive Fuses

(7.2mm Blade type)



Code/Amps	Colour
RL-3A	Violet
RL-4A	Pink
RL-5A	Tan
RL-7.5A	Brown
RL-10A	Red
RL-15A	Blue
RL-20A	Yellow
RL-25A	Clear
RL-30A	Green

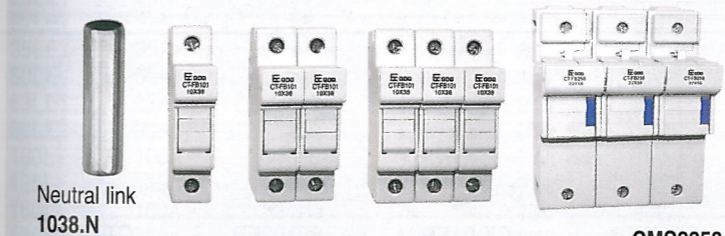
CYLINDRICAL FUSES & HOLDERS

Cylindrical Fuses (500V) IEC269

Size mm	10 x 38	14 x 51	22 x 58
AM type UF type			
GL Fuse	1038.*	1451.*	2258.*
AM Fuse	AM1038.*	AM1451.*	AM2258.*
Ultra Fast Fuse	UF1038.*	UF1451.*	UF2258.*
Current	*01A *12A	*10A *32A	*10A *32A
500V	*02A *16A	*12A *40A	*12A *40A
100kA	*04A *20A	*16A *50A	*16A *50A
	*06A *25A	*20A *63A	*20A *63A
	*08A *32A	*25A	*25A *80A
	*10A		*100A

*Add Amp to code

Fuse Holders 690V



Neutral link	1038.N	1451.N	2258.N
1 Pole	MSC1038.1	CMS1451.1	CMS2258.1
2 Pole	MSC1038.2	CMS1451.2	CMS2258.2
3 Pole	MSC1038.3	CMS1451.3	CMS2258.3
4 Pole	MSC1038.4	CMS1451.4	CMS2258.4
1 N Pole	MSC1038.N	CMS1451.N	VS2258.N

Econo Type Fuse Holders 500V



Pole	Code w/o indication	Code with indication
1 Pole	VS1038.1	LVS1038.1
2 Pole	VS1038.2	LVS1038.2
3 Pole	VS1038.3	LVS1038.3
1 N Pole	VS1038.N	-

Panel Mount Fuse Holder



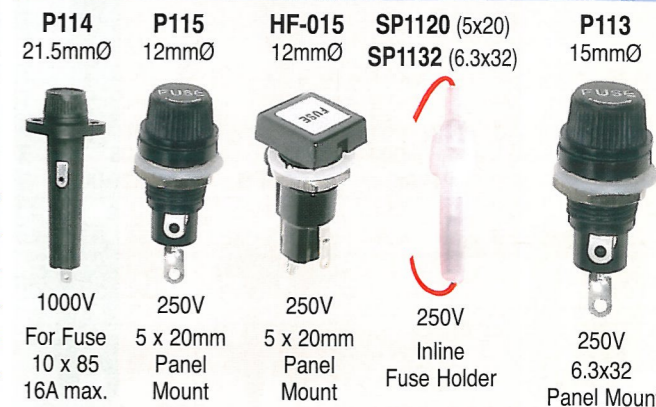
Pole	Code	Specification
1 Pole	P1891	Max. 30A 600V
1 Pole	P1892	Max. 30A 600V

1500V Fuses Glass Fuses Ceramic Fuses Fast Blow

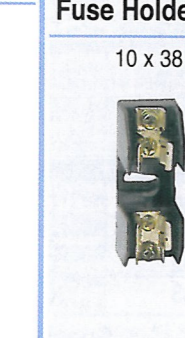
Size mm	10 x 85	5 x 20	5 x 20	6.3 x 32
250V				
135% - 1h max				
200% - 5s max				
GL Fuse	F602.*	F600.*	F700.*	F601.*
*2A		*100mA *2A	*1A	*250mA *5A
*4A		*250mA *3A	*2A	*500mA *6.3A
*6.3A		*500mA *3.5A	*3A	*750mA *10A
Current	*10A	*1A *4A	*4A	*800mA *15A
500V	*16A	*1.25A *5A	*5A	*1A *16A
100kA		*1.5A *6.3A	*6.3A	*1.6A *20A
		*1.6A *10A	*10A	*2A *25A
		*15A	*15A	*3A *30A
		*20A	*20A	*4A

NB: Sold in packs of 100 only

Fuse Holders



Open Type Fuse Holders



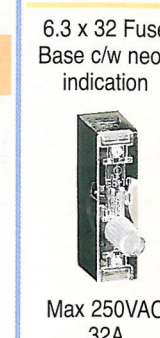
Pole	Code
1 Pole	FB1038.1

P.C.B. Fuse Holders




Code
HF004







DIN Mount



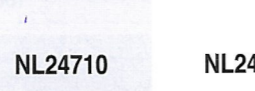
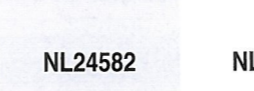
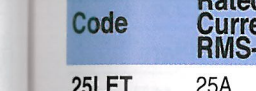
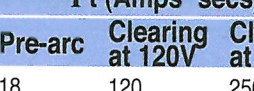









Pole	Code
1 Pole	FS10

DIN HRC FUSE LINKS AND CARRIERS

Standard Protection Fuses with Indicator	DIN Size	C00	00	0	1	2	3
	Code GL	24700-*	24585-*	24710-*	24720-*	24582-*	24588-*
	Current	*6A *35A	*100A	*125A	*200A	*200A	*400A
		*10A *40A	*125A	*160A	*250A	*250A	*500A
		*16A *50A	*160A			*315A	*630A
		*20A *63A				*355A	
		*25A *80A				*400A	
500V 120kA		*32A *100A					





Semi Conductor Protection Ultra Fast Fuses						
						
Code Ultra Fast 500V DIN	UF24700-*	UF24585-*	UF24710-*	UF24720-*		NH-SW1
Code Ultra Fast 660V	UFB00-*	UFB00-*	UFB0-*	UFB1-*		
Current 120kA	*6A, *10A, *16A *20A, *25A, *32A *40A, *50A, *63A	*125A	*125A	*125A	*200A	
*Add Amp to code	*80A, *100A					

Neutral Link						
						
	NL24585	NL24585	NL24710	NL24720	NL24582	NL24588

IP00 Fuse Bases						
						
	CT-00FB	CT-00FB	CT-00FB	CT-01FB	CT-02FB	CT-03FB
Fuse Handle 24649 fits all sizes						
	24645	24645	24655	24646	24647	

	1 Pole	3 Pole	Terminal Cover	Fuse Cover	Fuse Barriers	Fuse Linking Piece
Size C00 & 0	7900.N	7903.00	CT-00FBC1	CT-00FBC2	CT-00FBC3	-
Size 1	7901.N	7903.01	CT-01FBC1	CT-01FBC2	CT-01FBC3	CT-01FBC4
Size 2	7902.N	7903.02	CT-01FBC1	CT-01FBC2	CT-01FBC3	CT-01FBC4
Size 3	7903.N	7903.03	CT-03FBC1	CT-03FBC2	-	CT-03FBC4

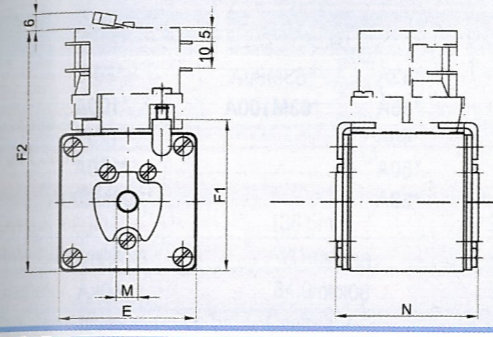
Special Fuse Bases 690V

IP20	Size C00, 00 & 0 (160A) 3P	Size 1 (250A) 3P	Size 2 (400A) 3P	
				
Code	HR17-00	HR17-1	HR17-2	S1000-80-00

SQUARE BODY TYPE G FUSES



Type G fuse links have threaded studs so they can be mounted by special screws to busbars.



Ultra Fast Fuse: for semi-conductor protection

Code	Size 1 G1MUQ02-*	Size 2 G2MUQ02-*	Size 3 G3MUQ02-*
Rated voltage: 690VAC	*63A	*160A	*315A
Breaking Capacity: 200kA	*80A	*200A	*350A
Characteristic: aR	*125A	*250A	*400A
	*160A	*315A	*450A
	*200A	*350A	*500A
	*250A	*400A	*630A
	*315A	*450A	*710A
	*350A	*500A	*800A
	*400A	*630A	*1000A
	-	-	*1250A

*Add current rating to code

Dimensions

Dimension	Size 1	Size 2	Size 3
D	51	60	75
E	51	60	75
F1	56	65	80
F2	90	99	114
M	M8	M10	M12
N	53	53	53

BS ULTRA RAPID FUSE LINKS

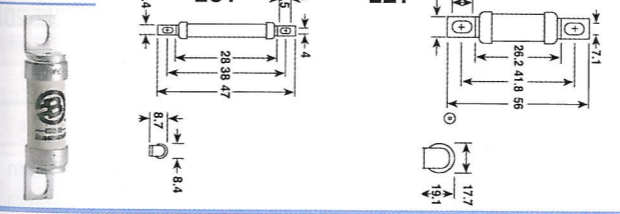
Bussmann Ultra Rapid Fuses - 240V 6-900A

Code	Rated Current RMS-Amps	I²t (Amps² secs)			
		Pre-arc	Clearing at 120V	Clearing at 240V	Loss
25LET	25A	18	120	250	4W
32LET	32A	32	200	450	5W
35LET	35A	50	320	600	5W
50LET	50A	100	500	1.4k	7W
63LET	63A	180	1.1k	2.2k	9W
80LET	80A	300	1.9k	3.8k	10W
100LET	100A	600	3.8k	7.5k	10W
125LET	125A	600	3.8k	7.5k	16W
160LET	160A	1.1k	7k	16k	20W
180LET	180A	1.6k	12k	29k	21W

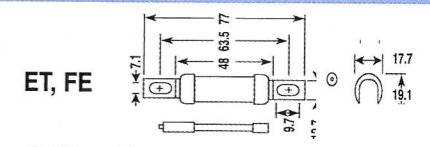
Bussmann Ultra Rapid Fuses - 690V 6-710A

Code	Rated Current RMS-Amps	I²t (Amps² secs)			
		Pre-arc	Clearing at 415V	Clearing at 660V	Loss
25ET	25A	25	150	250	7W
32ET	32A	32	190	350	11W
40ET	40A	103	600	900	9W
45ET	45A	103	680	1.1k	11W
56ET	56A	135	950	1.5k	14W
63ET	63A	171	1.2k	2k	16W
80ET	80A	360	2.5k	4k	18W
63FE	63A	135	480	750	12W
80FE	80A	250	900	1.5k	20W
90FE	90A	360	1.3k	2.1k	20W
100FE	100A	470	1.8k	2.8k	23W
110EET	110A	600	4k	6.5k	27W

Dimensions



Dimensions



Fuse Guide for SCRs: Fuse I²t ≤ 0.75 x SCR I²t

J-TYPE FUSES

Code	SMJ30-*	SPJ30-*	SMJ31-*	SPJ31-*
Fixing Centres	82mm	82mm	92mm	92mm
Fuse Body	Ø39mm	Ø50mm	Ø39mm	Ø50mm
Rated voltage: 415V	*20A *100A	*355A	*20A *100A	*355A
Breaking Capacity: 80kA	*32A *125A	*400A	*32A *125A	*400A
	*40A *160A		*40A *160A	
	*50A *200A		*50A *200A	
	*63A *250A		*63A *250A	
	*80A *315A		*80A *315A	

*Add current rating to code

PLUG TOP FUSE-LINKS

Code	Rating	Colour Code
C180-13A	13	Black

Rated Voltage: 240V
Breaking Capacity: 6kA



BS HRC FUSE LINKS & CARRIERS

BS 88 Size	NS	A1	A2	A3	A4	
Standard Protection						
IEC269 - BS88						
Code	NS*	NIT*	TIA*	TIS*	TCP*	
Current (*Add Amp to code)	*2A *4A *6A *10A	*16A *20A *25A *32A *10A *16A *20A	*2A *4A *6A *10A *16A	*20A *25A *32A *50A *63A	*32A *35A *40A *50A *63A	*63M80A *63M100A *80A *100A *125A *160A *100M200A
Voltage AC	415V	550V	660V	660V	660V	
Fault capacity	80kA	80kA	80kA	80kA	80kA	
Dimensions						
Overall length	62mm	55.6mm	85.8mm	85.8mm	111mm	
Hole fixing centres	CLIP-IN	44.5mm	73mm	73mm	93.7mm	
Diameter	14.5mm	13.9mm	23.8mm	23.8mm	35.9mm	
Tag type / holes	Offset / None	One side / 2	One side / 2	One side / 2	One side / 2	

NS Fuse Holders

Volts	415V		415/660V	660V	550V	660V	415V
	Screw	DIN	Screw	Busbar	DIN	Screw	Screw
Mounting							
Connection	Front	Front	Rear	Rear/Front	Front		
Black	NSH-B	TFB32-B	NSP-B *	NSB-B	32NNSF-B	RS20H	CSM-20H
White	NSH-W	TFB32-W	NSP-W *	-	32NNSF-W	-	-

*Add 415V or 600V

Dimensions

	NSH-B	TFB32-B	NSP-B	NSB-B	32NNSF-B	RS20H	CSM-20H
Height	82.5mm	80mm	80mm	80mm	83mm	80mm	81mm
Width	44mm	25mm	25mm	25mm	25mm	27mm	25mm
Depth	67mm	56mm	81mm	44mm	49mm	54mm	46mm

TIA Fuse Holders

TIS Fuse Holders

TCP Fuse Holders

Volts	660V		415V	660V	660V	660V	415V	660V	415V
	Screw	Screw	Screw	Screw	Screw	Screw	Screw	Screw	Screw
Mounting									
Connection	Front	Rear/Front	Front	Front	Rear	Rear/Front	Front	Front	Front
Black	RS32HD	RS32PH	CSM-32H	RS63HD	RS63P	RS63-B	CSM-63H	RS100HD	CSM-100H
Dimensions									
Height	103mm	103mm	98mm	110mm	105mm	110mm	110mm	140mm	130mm
Width	32mm	32mm	32mm	35mm	36mm	35mm	35mm	51mm	47mm
Depth	70mm	70mm	65mm	76mm	65mm	76mm	76mm	100mm	91mm

BS HRC FUSE LINKS AND CARRIERS

BS 88 Size	B1	B2	B3	B4	C1/C2	C3	Fuse Holders
Standard Protection							Screw Mount Front Connection
IEC269 - BS88							TF/TKF/TMF 200A 660V
Code	TS*	TF*	TKF*	TMF*	TM/TTM	TLM*	
Current (*Add Amp to code)	*100A	*125A *160A *200A	*250A *315A	*355A *400A	TM400 TTM500 TTM630	*800A	RS200HD 175 x 70 x 115
Voltage AC	660V	660V	660V	660V	660V	660V	TF 200A 415V
Fault capacity	80kA	80kA	80kA	80kA	80kA	80kA	
Dimensions							CSM-200H 176 x 70 x 125
Overall length	136.5mm	136.5mm	136.5mm	136.5mm	211mm / 209.6mm	209.6mm	
Hole fixing centres	111mm	111mm	111mm	111mm	133mm / 184mm	133mm / 184mm	
Diameter	34.9mm	54mm	61.1mm	61.1mm	61.1mm / 76.2mm	82.5mm	
Tag type / holes	Centre / 2	Centre / 2	Centre / 2	Centre / 2	Centre / 4	Centre / 4	

DIN RAIL

Description	A x B x C	Length	Code
DIN 35-V Anodised aluminium slotted	35 x 7.5 x 1	2m	DR35A
DIN 35-Ω Anodised aluminium non-slotted	35 x 7.5 x 1	2m	DR35A-NS
DIN 35-Ω Passivated* steel slotted	35 x 7.5 x 1	2m	DR35S
DIN 35-Ω Passivated* steel non-slotted	35 x 7.5 x 1	1m	DR35S-1M
DIN 35-Ω Passivated* steel slotted (Heavy duty)	35 x 7.5 x 1	2m	DR35NS
DIN 35-Ω Passivated* steel slotted (Heavy duty)	35 x 15 x 1.5	2m	NS35/15
DIN 35-Ω Passivated* steel non slotted (Heavy duty)	35 x 15 x 1.5	2m	NS35/15-NS
DIN 75-Ω Passivated* steel slotted (Heavy duty)	75 x 15 x 1.5	2m	SDR-7525
DIN 15-Ω Passivated* steel slotted	15 x 7.5 x 1	2m	PR2
DIN 32-G Passivated* steel non-slotted	32 x 15 x 1.5	2m	DR32NS
DIN 32-G Passivated* steel slotted	32 x 15 x 1.5	2m	DR32S

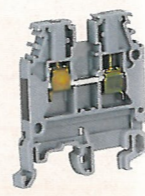
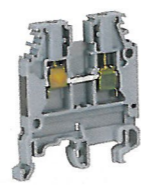
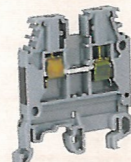
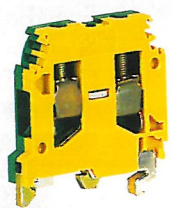
*Yellow Zinc passivated corrosion protection

End Stops		End Stop		Accessories	
To fit Rail	Code	To fit Rail	Code	Description	Code
DIN 35-Ω	SR/3	DIN 15-micro	BA2	Angle bracket for DIN rail	TSTW
DIN 35-Ω	SR/7.5	Support Brackets		Guillotine for DIN Rail	
DIN 35-Ω	SR/15	To fit Rail	Code		
DIN 32-Ω	SR	DIN35 Rails	159SM		
		Clip for DIN35 Rails c/w M6 nut & screw.	DR-CLIP/10 Pack of 10	Code	Rail Size
				ODG-02	Guillotine to cut 7.5mm DIN Rail
				ODG-03	Guillotine to cut 15mm DIN Rail

RAIL MOUNTED TERMINALS

Micro DIN2

Standard Terminals



Earth terminal

Wire Size (mm ²)	1.5mm	4mm	2.5mm	4mm	6mm
Std Terminal Code	DR1.5/5	DR4/6	MA2.5/5	M4/6	M6/8
Earth Terminal Code	-	-	MA2.5/5P	M4/6P	M6/8P
Rating Amps	20A	30A	24A	32A	41A
Volts	250V	500V	800V	800V	800V
Width	5mm	6mm	5mm	6mm	8mm
Mounting rail	PR2 Micro	PR2 Micro	DIN 32/35	DIN 32/35	DIN 32/35

Accessories

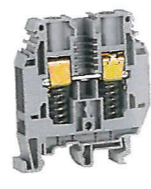
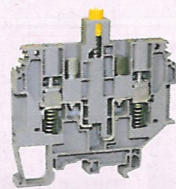
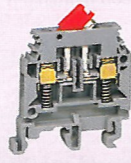
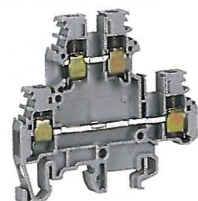
End plate	FEDR5	FEDR61	FEM6	FEM6	FEM6
Partition	-	-	SCF6	SCF6	SCF6
Bus coupler (ways)	-	-	BJS5 (20)	BJS6 (20)	BJS8 (20)
Connecting screw	-	-	EV5	EV6	EV6
Marker	-	-	N...	EN...	EN...

Double deck

Isolating

Spring

with spring loaded connectors



All Entrelec terminals are 'Atex' approved

Special terminals

Wire Size (mm ²)	2.5mm	4mm	4mm	4mm	6mm	4mm	6mm
Terminal Code	MA2.5/5D2	M4/6D2	M4/6SNBO	M4/6SNTS	M6/8.STP.RS	M4/6.RS	M6/8.RS
Rating Amps	24A	32A	20A	10A	24A	32A	41A
Volts	630V	800V	320V	500V	500V	1000V	800V
Width	5mm	6mm	6mm	6mm	8mm	6mm	8mm
Mounting rail	DIN32/35	DIN32/35	DIN32/35	DIN32/35	DIN32/35	DIN32/35	DIN32/35

Accessories

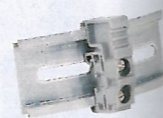
End plate	FEM6D	FEM6D	FEM62	FEM6	FEMR8T	FEMR8	FEMR8
Other	-	-	-	-	-	-	-
(See bottom of page 141) Marker	EN...	EN...	EN...	EN...	EN...	EN...	EN...

Power Terminals

Hinged Covers

End Stops

Terminal covers to be ordered separately



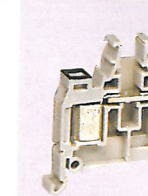
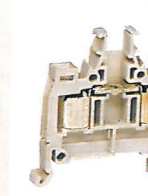
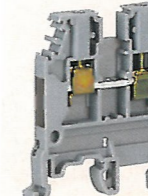
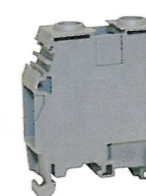
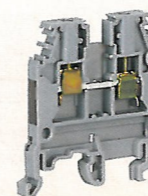
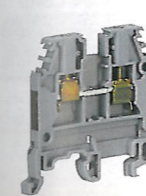
Wire Size (mm ²)	35mm ²	70mm ²	120mm ²	35mm ²
Terminal Code	D35/27FF	D70/32FF	D120/42FF	Code: CPUF35
Rating Amps	125A	192A	269A	70mm ²
Volts	1000V	1000V	1000V	Code: CPUF70
Width	27mm	32mm	42mm	120mm ²
Spacer	Included	Included	Included	Code: CPUF120
2 x Cover	Included	Included	Included	
Mounting Rail	DIN 35	DIN 35	DIN 35	

DIN35
BAM
Entrelec end stop to fit directly onto DIN35 Ω rail

RAIL MOUNTED TERMINALS

Insulation Displacement

ADO



Vibration proof
No wire stripping
No lug
Time saving



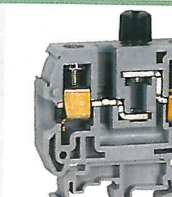
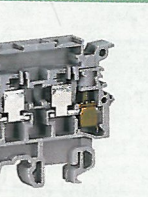
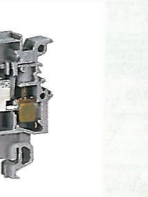
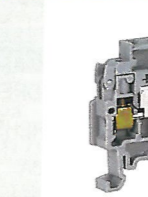
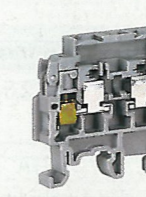
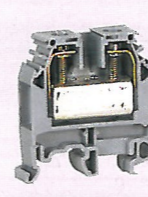
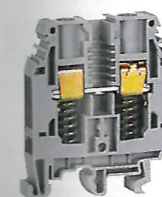
10mm	16mm	35mm	70mm	0.34-1.5mm	1-2.5mm
M10/10	M16/12	M35/16	M70/22	D1.5/6ADO	D2.5/8ADO
M10/10P	M16/12P	M35/16P	-	D1.5/6P	D2.5/8P
57A	85A	125A	192A	17.5A	24A
800V	800V	800V	800V	800V	1000V
10mm	12mm	16mm	22mm	6mm	8mm
DIN 32/35	DIN 32/35	DIN 32/35	DIN 32/35	DIN 32/35	DIN 32/35

FEM6	FEM12	-	FEM22	FEMAD3	FEMAD3
SCF6	SCF12	SCF16	SCF22	-	-
BJS10 (20)	BJS12 (20)	BJS16 (20)	-	BJS6 (20)	BJS8 (20)
EV6	EV12	EV16	-	EV6	EV6
EN...	EN...	EN...	EN...	EN...	EN...

Loaded

Thermocouple

Fused



10mm	4mm	4mm	4mm	4mm	6mm
M10/10.RS	MTC6	M4/8SF	M4/8SFL	M4/8SFD	MB10/12SF
46A	-	up to 6.3A max.	up to 6.3A max.	up to 6.3A max.	10A
800V	500V	630V	500V	500V	500V
10mm	6mm	8mm	8mm	8mm	12mm
DIN32/35	DIN32/35	DIN32/35	DIN32/35	DIN32/35	DIN32/35

FEMR10	FEM6	FEM8S	FEM8S	FEM8S	FEM12S
-	-	Fuse: 5 x 20	Fuse: 5 x 20	Fuse: 5 x 20	Fuse: 5 x 20
EN...	EN...	EN...	EN...	EN...	EN...

Horizontal Terminal Markers – 100 way strips

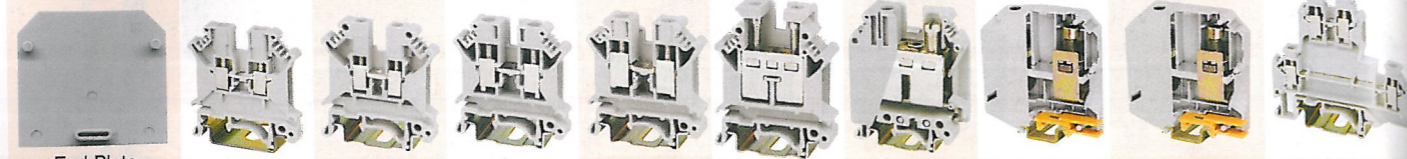
1 2 3 4 5 6 7 8 9 10 0000 For MA2.5 terminals, remove 'E' from part number

Symbol	Code	Symbol	Code	Symbol	Code	Symbol	Code	Symbol	Code
1	EN001	10	EN010	41 to 50	EN105	C	EN113	U	EN118
2	EN002	11	EN011	51 to 60	EN106	D	EN114	V	EN119
3	EN003	12	EN012	61 to 70	EN107	E	EN115	W	EN120
4	EN004	to	to	71 to 80	EN108	F	EN116	Z	EN121
5	EN005	100	EN100	81 to 90	EN109	L	EN117	blank	EN000
6	EN006	1 to 10	EN101	91 to 100	EN110	N	EN122	-	EN123
7	EN007	11 to 20	EN102	1 to 100	EN130	R	EN127	+	EN124
8	EN008	21 to 30	EN103	A	EN111	S	EN128	L1, L2, L3, N	EN126
9	EN009	31 to 40	EN104	B	EN112	T	EN129		

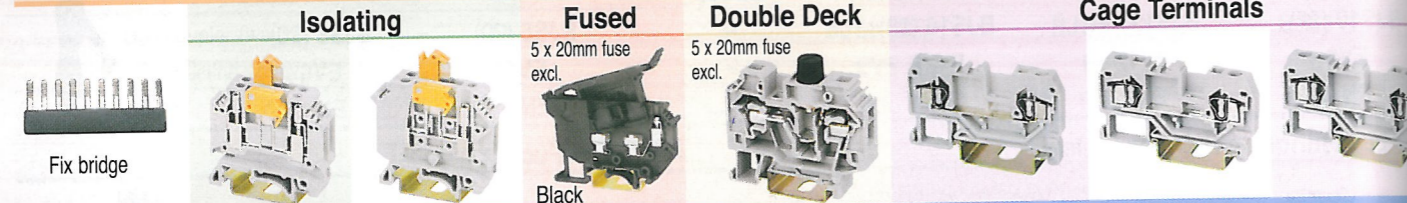
RAIL MOUNTED TERMINALS

NEW RANGE

Standard Terminals



Wire Size (mm ²)	2.5mm	4mm	6mm	10mm	16mm	35mm	50mm	95mm	4mm
Std Terminal Code	JUK2.5B	JUK3N	JUK6N	JUK10N	JUK16N	JUK35	JUKH50	JUKH95	JUKK5
Rating Amps	32A	32A	57A	76A	101A	125A	150A	232A	32A
Volts	800V	800V	800V	800V	800V	800V	1000V	1000V	500V
Width	6.2mm	5.2mm	8.2mm	10.2mm	12.2mm	15.2mm	20mm	25mm	6.2mm

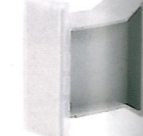


Wire Size (mm ²)	2.5mm	4mm	4mm	13mm	2.5mm	4mm	6mm
Std Terminal Code	JMTK-P/P	JUK5-MTK-P/P	JUK5-HESI	JUK10-DREHSI	JST2.5	JST4	JST6
With Indication	-	-	JUK5-HESILED	JUK10-DREHSILED	-	-	-
Rating Amps	16A	16A	6.3A	10A	31A	40A	52A
Volts	800V	800V	800V	500V	800V	800V	800V
Width	5.2mm	6.2mm	8.2mm	13mm	5.2mm	6.2mm	8.2mm

Terminal Marker Codes
Add suffix below to codes above. Eg. ZB5 1-10

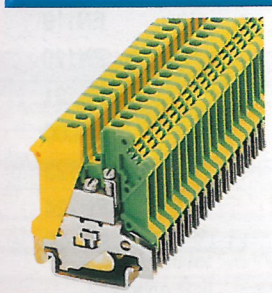
Legend	*Code Suffix	Legend	*Code Suffix	Legend	*Code Suffix	Legend	*Code Suffix	Legend	*Code Suffix	Legend	*Code Suffix	Legend	*Code Suffix
1-10	1-10	1	1	5	5	9	9	L1	L1	L1	L1	N	N
11-20	11-20	2	2	6	6	10	10	L2	L2	L2	L2	U	U
21-30	21-30	3	3	7	7			L3	L3	L3	L3	V	V
31-40	31-40	4	4	8	8			L	L	L	L	W	W

Rail Marker Holder



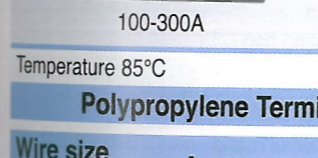
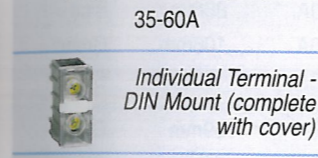
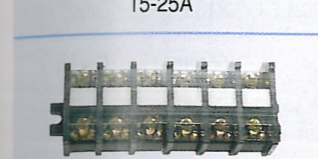
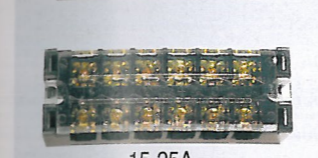
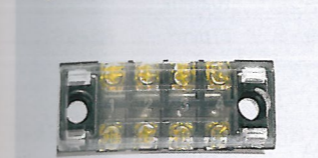
For DIN 32/35
JUBE/D

ECONO DIN RAIL EARTH TERMINALS



Size	2.5mm ²	4mm ²	6mm ²	10mm ²	16mm ²	35mm ²	50mm ²
Code:	JUSLKG3	JUSLKG5	JUSLKG6	JUSLKG10	JUSLKG16	JUSLKG35	JUSLKG50
Rated Amps:	34A	34A	37A	76A	101A	125A	150A
Volts	500V	500V	500V	500V	500V	500V	500V
Width (mm)	5.2	6.2	8.2	10.2	12.5	15.2	20.5
Mounting Rail	DIN 32/35	DIN 32/35	DIN 32/35	DIN 32/35	DIN 32/35	DIN 32/35	DIN 32/35

TERMINAL BLOCKS



Rated voltage 600V					2 Terminal Unipolar Connecting Blocks - Closed Back		
Rating Amps	No. of ways	Size mm	Hole Pitch mm	Code	Code	Cable Size	Box Qty
15A	4	54	50	TB-116/4	B22	2 x 4mm ²	300
15A	6	74	69	TB-116/6	B42	2 x 6mm ²	140
15A	12	133	128	TB-116/12	B62	2 x 16mm ²	80
15A	3	45	35	TB-803F	B252	2 x 25mm ²	40
15A	4	54	45	TB-804F	B352	2 x 35mm ²	25
15A	6	72	62	TB-806F	B502	2 x 50mm ²	10
15A	12	129	116	TB-812F	For ease of connecting 2 wires		
25A	3	54	42	TB-112F	Closed-End Screw Connectors/10 way		
25A	4	62	57	TB-113F	Code	Size	
25A	6	91	80	TB-114F	FA2.5	2.5mm	
25A	12	163	153	TB-115F	FA06	6mm	
35A	3	43	53	TB-303	FA10	10mm	
35A	4	56	67	TB-304	Nylon Plug-in 12 way Terminal Block		
35A	6	83	92	TB-306	Code	Amps	Wire Size
60A	3	62	80	TB-603	PVT-6P	6A	2.5mm
60A	4	82	100	TB-604	PVT-10P	10A	4.0mm
80A	1	22	-	IN60K	Temperature 85°C		
130A	1	32	-	IN100K	Temperature 125°C. Rated Volts 400V High Quality		
240A	1	39	-	IN200K	Polypropylene Terminal Blocks 12 Way		
100A	3	103	35	TB-1003	Wire size mm²	Amps	Pitch mm
100A	4	137	70	TB-1004	2.5	3A	7.4
200A	3	132	45	TB-2003	4.0	6A	10
200A	4	175	90	TB-2004	6.0	10A	12
300A	3	163	55	TB-3003	10.0	16A	12
300A	4	213	110	TB-3004	16.0	30A	13
					25.0	60A	15

Nylon Terminal Blocks 12 Way (white only)			
Wire size mm ²	Amps	Pitch mm	Hole Size Ø
1.5	17.5A	8	3
2.5	24A	10	3.3
4.0	32A	12	4.2
6.0	41A	15	5

Terminal blocks with fuse holder 5 x 20 fuse

Code	Wire size	Amps	Description
BM972	2.5mm	6A	2 Way with fuse holder
BM974	2.5mm	6A	4 Way with fuse holder
F600*			5 x 20 Fuse

Ceramic Terminals 300°C

Code	Wire size	Amps	Description
CLTM-41	2 Pole		
CLTM-42	3 Pole		
CLTM-43	2 Pole		
CLTM-44	3 Pole		

Terminal blocks 12 Way

Code	Description	Length	Hole Pitch
TSS21-12	10A 12 Way Terminal block	87mm	83mm
TSS41-12	20A 12 Way Terminal block	92mm	74mm

Terminal Kits Temperature - 30 °C to 100°C; 400V

Code	Description
PACKING-7	Kit consists of: - 1 x flat screw driver - 1 x PVC Tape - 1 x 3Amp, 1 x 6Amp, 1 x 10Amp, 1 x 15Amp, 1 x 30Amp terminal

TERMINALS, INSULATORS & COPPER

TERMINALS, INSULATORS & COPPER

NEUTRAL & EARTH BARS, DISTRIBUTION BLOCKS

Pre-assembled Neutral and Earth Bars

Code	Wire Size	N° of Way	Bus Size	Rating	Length	Colour
SP6X9/6-*	16mm ²	6	6 x 9	70A	58mm	Blue
SP6X9/12-*	16mm ²	12	6 x 9	70A	102mm	Blue
SP8X12/6-*	25mm ²	6	8 x 12	100A	77mm	Black
SP8X12/12-*	25mm ²	12	8 x 12	100A	128mm	Black
* Add colour to code: ● BL (Blue), ● BK (Black), ● GN (Green)						
E6X8/5	16mm ²	5	6 x 9	70A	56mm	Grey
E6X8/10	16mm ²	10	6 x 9	70A	112mm	Grey
E6X8/15	16mm ²	15	6 x 9	70A	168mm	Grey
E8X12/5	25mm ²	5	8 x 12	100A	71mm	Grey
E8X12/10	25mm ²	10	8 x 12	100A	142mm	Grey
E8X12/15	25mm ²	15	8 x 12	100A	213mm	Grey
651S7G	16mm ²	7	6 x 9	70A	55mm	Green
651S7B	16mm ²	7	6 x 9	70A	55mm	Blue
651S12G	16mm ²	12	6 x 9	70A	88mm	Green
651S12B	16mm ²	12	6 x 9	70A	88mm	Blue
651S15G	16mm ²	15	6 x 9	70A	106mm	Green
651S15B	16mm ²	15	6 x 9	70A	106mm	Blue
167	16mm ²	7	6 x 9	70A	59mm	Grey
1614	16mm ²	2 x 7	6 x 9	70A	51mm	Grey
1628	16mm ²	12	6 x 9 } x 2	70A	105mm	Grey
	25mm ²	2				
GGH-30-100	16mm ²	7	10 x 2	100A	105mm	Black
	25mm ²	1				

Self Assembled Busbar System – Terminals with insulating cap

Colour	Application	4mm ² Code	16mm ² Code	35mm ² Code
Blue	N	SKG4BU	SKG16BU	SKG35BU
Green/Yellow	Earth	SKG4GNYE	SKG16GNYE	SKG35GNYE
Black	L1, L2, L3	SKG4BK	SKG16BK	SKG35BK

Width: 4mm² = 7mm, 16mm² = 10mm, 35mm² = 15mm,

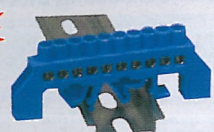
Busbar, tin plated, 5 x 7mm.	150A rated.	500mm L	NLS5X7
Supports	1 bar	25mm (H)	SB-1
	2 bar	42mm (H)	SB-2
	3 bar	47mm (H) x 54mm (D)	SB-3
	3 bar	69mm (H) x 74mm (D)	AB-3

Supports SB-1/2/3 & AB-3 supplied in pairs

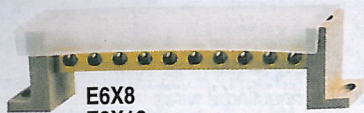
Neutral and Earth Bars

Code	Size	Length	N° of Way	N° of Row
NB-7X9	7 x 9	500mm	72	1
NB-8X12	8 x 12	500mm	57	1
NB-12X12/2	12 x 12	500mm	62	2
NB-BASE	Screw Mounting Base for all sizes			
FT08	7 x 9	70mm	8	1
FT10	7 x 9	75mm	10	1
FT10A	7 x 9	105mm	10	1
FT14	7 x 9	110mm	14	1

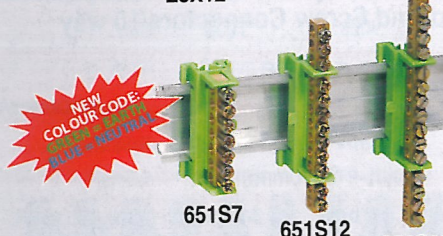
NEW



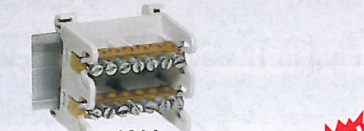
SP6X9
SP8X12



E6X8
E8X12



651S7 651S12 651S15
Vertical DIN rail mount

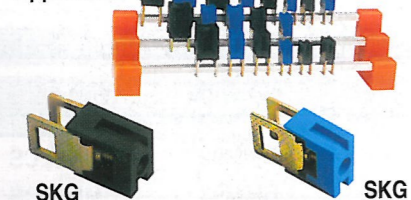


1614
Horizontal DIN rail mount



GGH-30-100

Application



SKG

SKG

NLS5X7

To order complete:

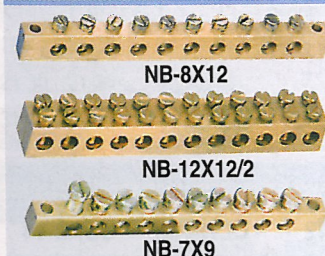
- Supports
- Busbars
- Terminals



SB-2

SB-3

AB-3



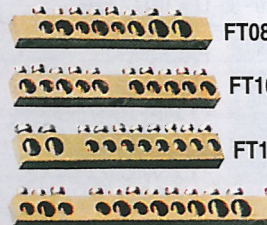
NB-8X12

NB-12X12/2

NB-7X9



NB-BASE



FT08

FT10

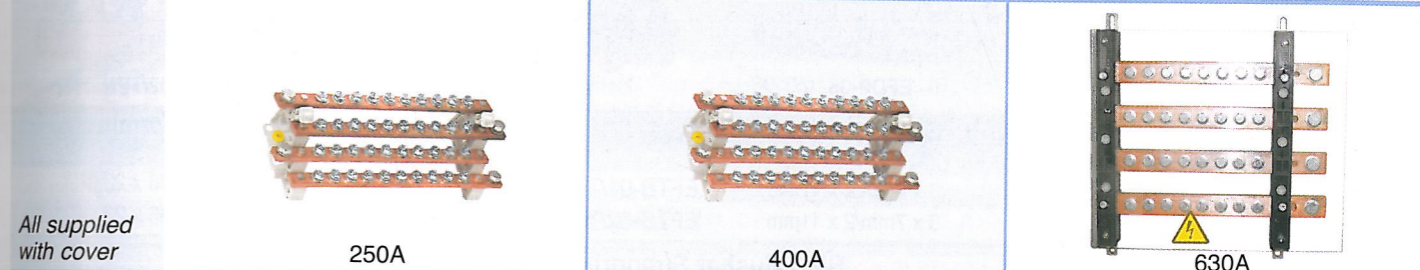
FT10A

FT14

DISTRIBUTION BLOCKS

Four Pole Distribution Blocks – Type Tested

	100A (4 Bars)	125A (4 Bars)	160A (4 Bars)	160A (5 Bars)
Code	BD10074	BD125114	BD16084	BD160135
D x H x W	45 x 98 x 72	45 x 98 x 109	70 x 133 x 136	70 x 136 x 186
Terminals per Pole	5 x 10mm ² 1 x 25mm ² 1 x 35mm ²	6 x 10mm ² 2 x 16mm ² 2 x 25mm ² 1 x 35mm ²	5 x 16mm ² 1 x 25mm ² 1 x 35mm ² 1 x 50mm ²	8 x 16mm ² 2 x 25mm ² 2 x 35mm ² 1 x 50mm ²
I Peak	20kA	22kA	24kA	24kA
Ui	690V	1000V	1000V	1000V



All supplied with cover

	250A	400A	630A
Code	BBD25011	BB40011	E563190
D x H x W	67 x 190 x 280	110 x 175 x 299	60 x 338 x 340
Terminals per Pole	In 1 x M8 Out 10 x M6	In 1 x M8 Out 10 x M6	In 1 x Ø 10mm Out 8 x M8
I Peak	30kA	30kA	46kA
Ui	1000V	1000V	1000V

Single Pole DIN rail mounting

	BKB251	E563760	E563770	E563210	E563220	E563240	E563270
Amps	80A	80A	125A	160A	250A	400A	500A
Ui	400V	690V	690V	690V	690V	690V	690V
Icw*	-	3kA	4.2kA	11.8kA	24.5kA	24.5kA	24.5kA
I peak	5kA	22kA	30kA	30kA	51kA	51kA	51kA
In mm ²	1 x 25	1 x 6...16	1 x 10...35 1 x 6...16	1 x 10...70	1 x 35...120	1 x 95...185	Flexible bus: 24 x 6
Out mm ²	3 x 25	4 x 2.5...6 2 x 2.5...16	6 x 2.5...16	6 x 2.5...16	2 x 6...35 5 x 2.5...16 4 x 2.5...10	2 x 6...35 5 x 2.5...16 4 x 2.5...10	2 x 6...35 5 x 2.5...16 4 x 2.5...10
H x W x D	43 x 22 x 34	66 x 27 x 45	75 x 27 x 45	90 x 35 x 50	96 x 45 x 50	96 x 45 x 50	96 x 45 x 50

*Icw rms for 1 sec



Accessories

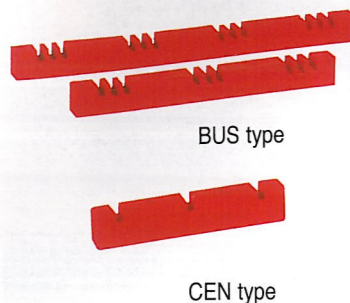
Terminal extension for connecting flexible busbar or bolted lug to 250 and 400 Amp models

Amps	Code
250	FLG250
400	FLG400

500A application



FLAT BUSBARS SUPPORTS



Code	No of Phases	No of Slots Per Phase	Slot Width	Length
BUS-317	3	1	7mm	270mm
BUS-3N17	3+N	1	7mm	365mm
BUS-327	3	3	7mm	270mm
BUS-3N27	3+N	3	7mm	365mm
BUS-3110	3	1	10mm	270mm
BUS-3N110	3+N	1	10mm	365mm
CEN-317	3	1	7mm	198mm
CEN-3110	3	1	10mm	198mm
CEN-3114	3	1	14mm	198mm

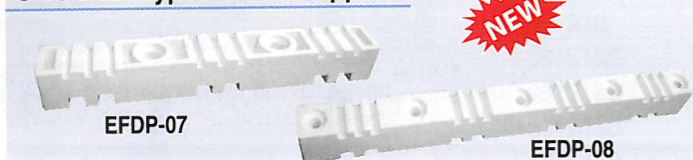
Busbar Supports

Code	Length	Stud Centres	Height	Stud Length	Stud
IC-6	190mm	52mm	30mm	15mm	M6
IC-6/2	235mm	70mm	34mm	16mm	M6
IC-8	262mm	70mm	40mm	25mm	M8

Code	Description
STD-4BAR	4-Way Distribution Busbar support

- Busbar clamps are sold individually – for a pair order two of the same type.
- Busbar clamps can accommodate busbar from 25mm to 150mm.
- Mounting holes: 10mm Ø.

SMC Dual Type Busbar Supports



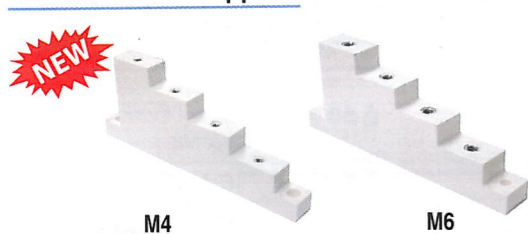
Code	No. of phases	Size (mm)	Slots/Phase
EFD-07	3	270 x 35 x 35	3 x 6mm/2 x 11mm
EFD-08	3+N	400 x 30 x 40	3 x 7mm/2 x 11mm

DMC Terminal Blocks



Code	No. of phases	Size (mm)	Terminal Post
EFTB-01/TP	3	90 x 25 x 21	M6 x 23
EFTB-02/TPN	3+N	120 x 25 x 21	M6 x 23

4 Pole Busbar Support



Code	Description
SBF/M4	Threaded bars stepped insulator with M4 screws
SBF/M6	Threaded bars stepped insulator with M6 screws

SMC Busbar Supports



3 Phase + N Busbar Supports

Code	Size (L x H x W)	Slot Width	No. of Slots /Phase	N	Slot Depth
EFCMB-01	549 x 80 x 15mm	10.5mm	2	2	25mm
EFCMB-05	700 x 100 x 20mm	11mm	3	3	40mm
EFCMB-07	800 x 100 x 20mm	11mm	4	2	40mm
EFCMB-08	600 x 100 x 20mm	7.2mm	2	2	40mm

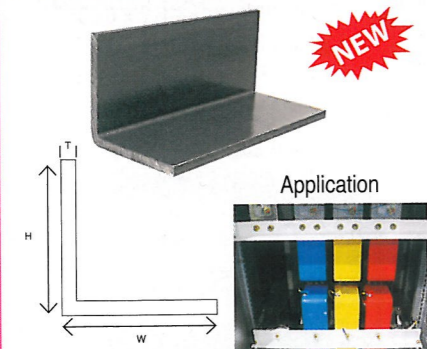
- Busbar clamps are sold individually – for a pair order two of the same type.

DMC Earthing Flat Support



Code	Copper Size	DFSC	Size
EF-EFS-01LD	20x3/ 20x6/ 25x3/ 25x6 32x3/ 32x6/ 40x3/ 40x6	Light Duty	80 x 22 x 18mm
EF-EFS-02HD	20x3/ 20x6/ 25x3/ 25x6 32x3/ 32x6/ 40x3/ 40x6	Heavy Duty	80 x 25 x 24mm

FRP ANGLES



Angle Fibre Reinforced Plastic 2m length

Code	Size H x W x T
EF-ANG30	30 x 30 x 3
EF-ANG40	40 x 40 x 5
EF-ANG50	50 x 50 x 6
EF-ANG60	60 x 60 x 8
EF-ANG75	75 x 75 x 10

Standard colour grey

SMC CHEQUERED PLATES

Sheet Moulded Compound (SMC) Chequered Plates

Code	Size H x W x T
EF-CHP-4	1000 x 1000 x 4mm
EF-CHP-5	1000 x 1000 x 5mm
EF-CHP-6	1000 x 1000 x 6mm
EF-CHP-8	1000 x 1000 x 8mm
EF-CHP-10	1000 x 1000 x 10mm
EF-CHP-12	1000 x 1000 x 12mm
EF-CHP-16	1000 x 1000 x 16mm

Standard colour grey

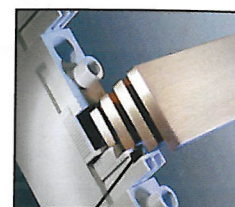
BUSBAR SUPPORTS



Adjustable Busbar Supports - 160-630A
V = ≤1000VAC/1500VDC. Universal Busbar Support

Code	System	Busbar Support	Ctn
E562700	3ph	15x10, 15x5, 20x10, 20x5, 25x10, 25x5, 30x10, 30x5	1
E562750	3ph+N	15x10, 15x5, 20x10, 20x5, 25x10, 25x5, 30x10, 30x5	1

Conforms to standard: CEI 60439-1



integral locating block which slides



Flat Busbar Supports - 630-1200A
V = ≤1000VAC/1500VDC

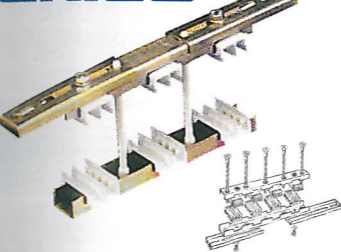
Code	System	Busbar Support	Ctn
E562800	3ph	60 x 10	4

Conforms to standard: CEI 60439-1

Inserts for Smaller Busbar (order 2/phase)

Code	Busbar	Ctn
E562820	30 x 10	24
E562830	40 x 10	24
E562840	50 x 10	24

ERICO



Universal Busbar Supports

Type tested. One part number per complete support. -40 to 130°C. Extension arms provided for ease of mounting

Code	System	Busbar Width	Busbar Thickness	Bars per Phase	Max. Amps
E551060	3Ph+N	30-120	10	1	2250A
E551010	3Ph+N	30-120	10	2	3600A
E551080	3Ph	30-120	10	2	3600A

For details of kA and spacing to suit different busbar sizes, contact our technical support team or visit our website
Conforms to standard: CEI 60439-1



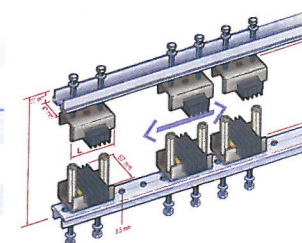
ABS Range

- Adjustable Busbar Support - Up to 7400A
- Freedom to select the desired distance between phases
- Extremely robust construction
- Universal Fixing System
- Time saving due to rapid assembly process
- Working temp -40°C up to 130°C · Up to 7400Amps
- Panels: 300 to 900mm
- Bars: 50 to 200mm

Code	Description
E560930	Aluminium Profile Punched 25mm hole pitch 2m length
E560940	Aluminium Profile Plain to be drilled 2m length

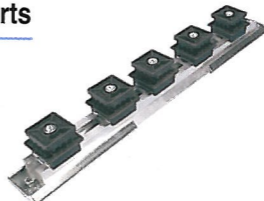
Modules

E560860	1/5 1Bar 50 - 125 x 5mm per phase
E560870	4/5 2, 3 or 4 Bars 50 - 125 x 5mm per phase
E560880	1/10 1 Bar 50 - 120 x 10mm per phase
E560890	2/10 2 Bars 50 - 120 x 10mm per phase
E560900	3/10 3 Bars 50 - 120 x 10mm per phase

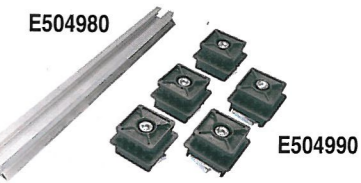


Adjustable Flat Busbar Supports

Up to 1600A
For bars 30 to 80mm
Bar thickness: 5 or 10mm



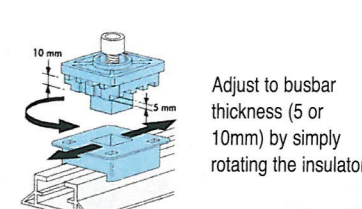
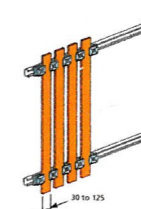
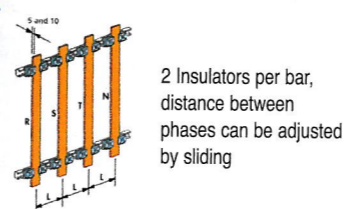
Up to 2000A
For bars 30 to 125mm
Bar thickness: 5 or 10mm



Code	Description
E504970	For 3P+N kit (Aluminium rail 549mm + 5 insulator blocks)

Code	Description
E504980	Aluminium rail - 2m
E504990	Insulator Blocks

Application



LOW VOLTAGE INSULATORS AND BUSBAR SUPPORTS

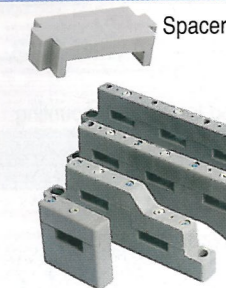
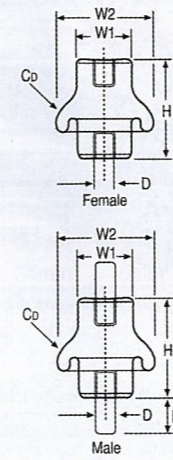
Skirted Low Voltage Insulators – Clear Polycarbonate Resin
Rated Voltage up to 1000V 50/60Hz

Code	H	W1	W2	D	L	Cd
Female/Female						
LV1FF-*	30	16	20	M5	-	42
LV2FF-*	45	25	45	M8	-	68
LV3FF-*	45	25	45	M10	-	68

Male/Male supplied c/w Studs, Nuts and Washers

LV1MM-*	30	16	20	M5	20	42
LV2MM-*	45	25	45	M8	25	68
LV3MM-*	45	25	45	M10	30	68

*Add colour: ● R, ● W, ● BL, ● BK, ○ C (Clear)



Busbar Supports Type SU
V = ≤1000VAC/1500VDC

Busbar	Phases	Code	Busbar	Code
30 x 10	1	SU1	30 x 5	SU221
30 x 10	2	SU2	25 x 5	SU222
30 x 10	3	SU3	20 x 10	SU223
30 x 10	4	SU4	20 x 5	SU224

Inserts for Smaller Busbar Order one per phase

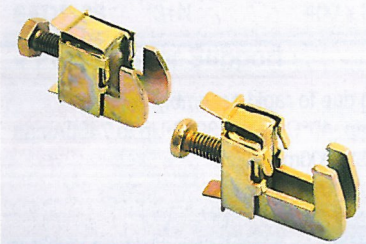
Distance between holders
Operating Temperature 140°C

mm	kA
250	75
350	65
440	55
520	45
600	35

Busbar Connectors 160-630A

Connect cables to busbars without punching or drilling. V = ≤1000VAC/1500VDC

5mm Busbar Code	10mm Busbar Code	Cable Size	Max. Height	Pack Qty
SU201	SU206	1 to 4mm ²	23mm	15
SU202	SU207	2.5 to 6mm ²	29mm	15
SU203	SU208	16 to 50mm ²	39mm	15
SU204	SU209	35 to 70mm ²	57mm	15



Profiled Copper Busbar (400V Systems)

Code	Rated Current	Slot	Dimension	Length	Ctn
GW49651	400A	2	20 x 20	1730mm	1
GW49652	800A	1	20 x 20	1730mm	1

Holders for Profiled Busbar

Code	Type	Rated Current	Max l _{cw}	Ctn
GW49656	Stepped	400/800A	35kA	1
GW49658	Flat	400/800A	35kA	1

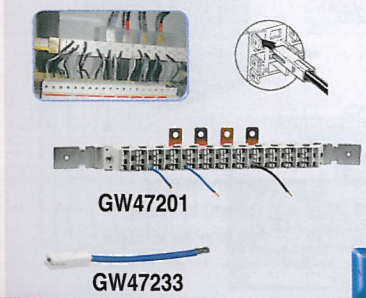
Accessories

Code	Description	Ctn
GW49591	M8 hammer-head screw set for profile bus (pkt of 12)	10
GW49673	Support base for 400/800A	1

Modular 250A Distribution Block

For 400V 4-wire systems. l_{cw} Rms 1s = 10kA I_{pk} = 60kA.
250A in, 63 Amp per connection out.
Fast and reliable connection. Space saving. 12 outputs per phase. 24 neutral outputs.

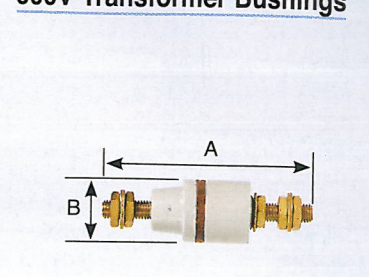
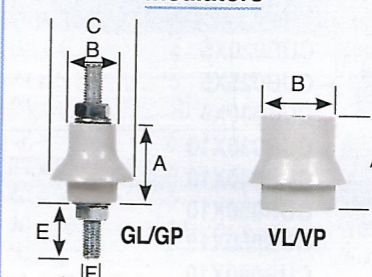
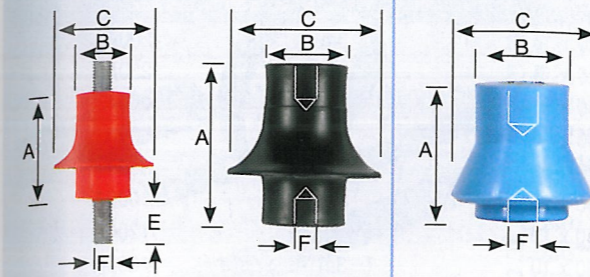
Code	Description	Ctn
GW47201	Distribution block 250A	1/5
GW47233	10mm ² x 500mm long black connector	10/100
GW47248	10mm ² x 500mm long blue connector	10/100



INSULATORS (1000V)

Polypropylene

Dough Moulded Compound (D.M.C)



Type A,B,C	5mm	8mm	8mm	10mm	5mm	8mm	10mm	8mm	6mm	8mm	10mm	12mm
M/M	A5-MM-*	B8-MM-*	M8-MM-*	M10-MM-*	GL-5-*	GL-8-*	GL-10-*	VL-8-*	B6	B8	B10	B12
M/F	A5-MF-*	B8-MF-*	M8-MF-*	M10-MF-*	-	-	-	-	-	-	-	-
F/F	A5-FF-*	B8-FF-*	M8-FF-*	M10-FF-*	GP-5-*	GP-8-*	GP-10-*	VP-8-*	-	-	-	-

*Add colour to code: ● R (Red), ● BL (Blue), ● W (White), ● BK (Black). Eg. A5-MM-BL (Blue)

*Add colour to code: ● R (Red), ● BL (Blue), ● BK (Black).

Colour: Natural only.
Complete with gasket.
Brass Studs.

Dimensions: Polypropylene (Thermoplastic)

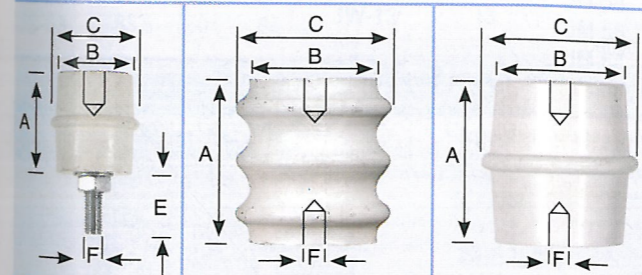
CAT No.	A mm	B mm	C mm	E mm	F mm
A5	25	16	25	20	-
B8	41	22	40	25	-
M8	40	32	45	-	8
M10	40	32	45	-	10

Dimensions: D.M.C

CAT No.	A mm	B mm	C mm	E mm	F mm	CAT No.	A mm	B mm	Stud
G*5	25	17	26	15	5	B6	85	28	M6
G*8	42	25	45	25	8	B8	95	30	M8
G*10	42	25	45	30	10	B10	110	33	M10
V*8	40	30	50	25	8	B12	120	35	M12

*Add L or P

D.M.C. Insulators



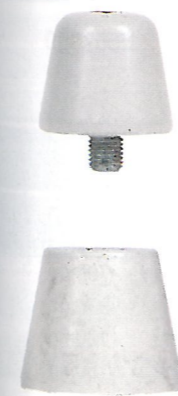
Dimensions

CAT No.	A mm	B mm	C mm	E mm	F mm
DJ10	50	40	45	30	10
DF10	50	35	45	-	10
DF12	50	35	45	-	12
DE12	60	45	60	-	12
DD16	60	45	60	-	16

DMC = Dough Moulded Compound Max. 187°C
All Insulators manufactured with Brass inserts and bright Zinc-plated steel studs where applicable.

*Light Grey only

Trolley Line (D.M.C)



Code: SM1000 (Light Grey)

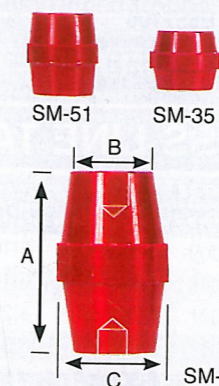
Code: SM1000-BK (Black)

Height: 55mm
Diameter: 60mm
Hole/Stud: 5/8" BSW

Code: SM2000

Height: 65mm
Top Diameter: 50mm
Bottom Diameter: 72mm
Hole: M12

D.M.C with Flat Edge



Code: SM-35 SM-51 SM-76

	SM-35	SM-51	SM-76
Volt withstand	10kV	15kV	25kV
Screw	8mm	8mm	10mm
Dimension:			
A	35mm	51mm	76mm
B	28mm	29mm	36mm
C	32mm	36mm	50mm

Available only in ● Red only