

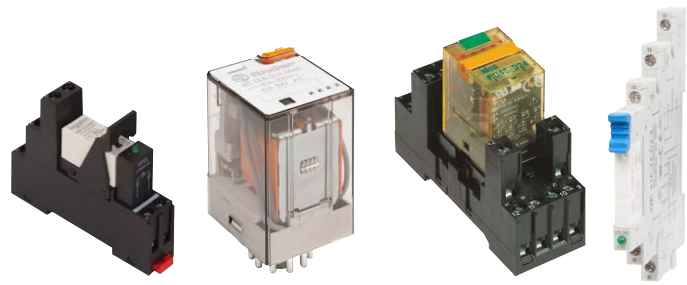
ilecsys



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12 Amp Single Pole 5 Pin Relays

REF NO	Description	PRICE
RSB1A120JD	Single Pole 12VDC	3.25
RSB1A120BD	Single Pole 24VDC	3.52
RSB1A120B7	Single Pole 24VAC	5.36
RSB1A120F7	Single Pole 110VAC	5.49
RSB1A120P7	Single Pole 230VAC	8.63
RSZE1S35M	5 Pin Single Pole Relay Base	3.68



PICTURE SHOWS RELAY PLUS BASE PLUS DIODE MODULE

8 Amp Double Pole 8 Pin Relays

REF NO	Description	PRICE
RSB2A080JD	Double Pole 12VDC	3.90
RSB2A080BD	Double Pole 24VDC	3.82
RSB2A080B7	Double Pole 24VAC	5.74
RSB2A080F7	Double Pole 110VAC	6.19
RSB2A080P7	Double Pole 230VAC	11.43
RSZE1S48M	8 Pin Double Pole Relay Base	5.35



RSB2A080B7

Accessories for Single/Double Pole Relays

REF NO	Description	PRICE
RZM031RB	Protection Diode & LED 6-24V DC	4.48
RZM021FP	Varistor & LED 110-230V AC/DC	5.07
RSZL300	Tag Label	0.09
RSZR215	Plastic Retaining Clip	0.26



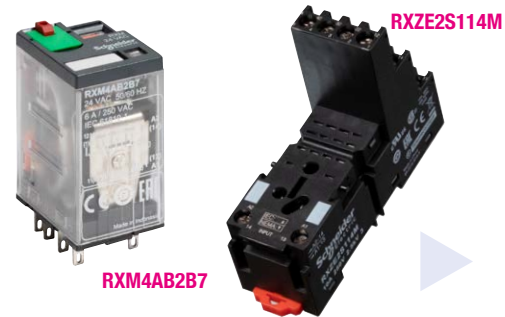
RUMC32B7 RUCZ3M

10 Amp 2 Pole 8 Pin Industrial Relays with Flag & LED

REF NO	Description	PRICE
RUMC22BD	Double Pole 24VDC	8.86
RUMC22B7	Double Pole 24VAC	9.10
RUMC22F7	Double Pole 110VAC	9.11
RUMC22P7	Double Pole 230VAC	8.86
RUZC2M	Double Pole 8 Pin Base	3.42
RUZC200	Metal Retaining Clip	1.09

10 Amp 3 Pole 11 Pin Industrial Relays with Flag & LED

REF NO	Description	PRICE
RUMC32BD	Three Pole 24VDC	10.17
RUMC32B7	Three Pole 24VAC	9.73
RUMC32F7	Three Pole 110VAC	10.17
RUMC32P7	Three Pole 230VAC	10.45
RUZC3M	Three Pole 11 Pin Base	3.96
RUZC200	Metal Retaining Clip	1.09



RXM4AB2B7

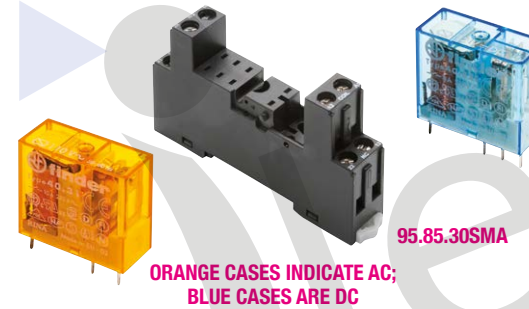
RXZE2S114M

5 Amp Four Pole 14 Pin Relays with Flag & LED

REF NO	Description	PRICE
RXM4AB2BD	Four Pole 24VDC	6.70
RXM4AB2B7	Four Pole 24VAC	6.70
RXM4AB2F7	Four Pole 110VAC	6.70
RXM4AB2P7	Four Pole 230VAC	6.76
RXZE2M114M	14 Pin 4 Pole Turret Style Base	4.43
RXZE2S114M	14 Pin 4 Pole Safe Separation Base	4.43
RXZR335	Plastic Retaining Clip	0.45

Miniature Plug-In / PCB Mount Relays Single Pole - 40 Series

REF NO	Description	PRICE
40.31.7.024.0000	10A Single Pole Relay - 24V DC	3.98
40.31.8.024.0000	10A Single Pole Relay - 24V AC	5.00
40.31.8.110.0000	10A Single Pole Relay - 115V AC	6.45
40.31.8.230.0000	10A Single Pole Relay - 230V AC	8.20
95.83.30SMA	Relay Base for 4031 Relays - Black	5.26
95.83.3SMA	Relay Base for 4031 Relays - Blue	5.14
40.61.7.024.0000	16A Single Pole Relay - 24V DC	4.16
40.61.8.024.0000	16A Single Pole Relay - 24V AC	5.19
40.61.8.110.0000	16A Single Pole Relay - 115V AC	6.64
40.61.8.230.0000	16A Single Pole Relay - 230V AC	8.40
95.85.30SMA	Relay Base for 4061 Relays - Black	5.66
95.85.3SMA	Relay Base for 4061 Relays - Blue	5.54



ORANGE CASES INDICATE AC; BLUE CASES ARE DC

Miniature Plug-In / PCB Mount Relays Double Pole - 40 Series

REF NO	Description	PRICE
40.52.7.024.0000	8A Double Pole Relay - 24V DC	4.86
40.52.8.024.0000	8A Double Pole Relay - 24V AC	5.90
40.52.8.110.0000	8A Double Pole Relay - 115V AC	7.35
40.52.8.230.0000	8A Double Pole Relay - 230V AC	9.10
95.85.30SMA	Relay Base for 4052 Relays - Black	5.66
95.85.3SMA	Relay Base for 4052 Relays - Blue	5.54

Coil Indication Modules & Diodes for 9583 & 9585 Bases

REF NO	Description	PRICE
99.80.3.000.00	Diode 6 - 220V DC	2.07
99.80.0.024.59	LED Module 6 - 24V AC/DC	3.07
99.80.0.230.59	LED Module 110 - 240V AC/DC	3.07
99.80.9.024.99	LED + Diode Module 6 - 24V DC	3.45
99.80.9.060.90	LED + Diode Module 28 - 60V DC	3.70
99.80.9.220.99	LED + Diode Module 110 - 220V DC	3.45



60.13.8.024.0040

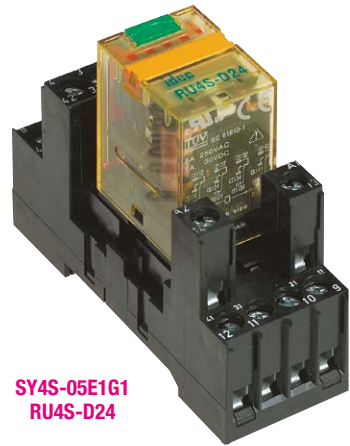
Industrial Plug-In Relays Double & Three Pole - 60 Series

REF NO	Description	PRICE
60.12.9.012.0040	10A Double Pole Relay - 12V DC	12.21
60.12.9.024.0040	10A Double Pole Relay - 24V DC	12.21
60.12.9.048.0040	10A Double Pole Relay - 48V DC	13.46
60.12.8.012.0040	10A Double Pole Relay - 12V AC	12.21
60.12.8.024.0040	10A Double Pole Relay - 24V AC	12.21
60.12.8.110.0040	10A Double Pole Relay - 110V AC	13.46
60.12.8.230.0040	10A Double Pole Relay - 230V AC	13.05
90.20.0SMA	Relay Base for 6012 Relays - Black	5.04
90.20.SMA	Relay Base for 6012 Relays - Blue	5.04
60.13.9.012.0040	10A Three Pole Relay - 12V DC	12.60
60.13.9.024.0040	10A Three Pole Relay - 24V DC	12.60
60.13.9.048.0040	10A Three Pole Relay - 48V DC	13.79
60.13.9.060.0040	10A Three Pole Relay - 60V DC	13.79
60.13.8.012.0040	10A Three Pole Relay - 12V AC	12.60
6013-8024-0040	10A Three Pole Relay - 24V AC	12.60
6013-8110-0040	10A Three Pole Relay - 110V AC	13.79
6013-8230-0040	10A Three Pole Relay - 230V AC	13.46
90.21.0SMA	Relay Base for 6013 Relays - Black	5.04
90.21.SMA	Relay Base for 6013 Relays - Blue	5.64



90.21.0SMA





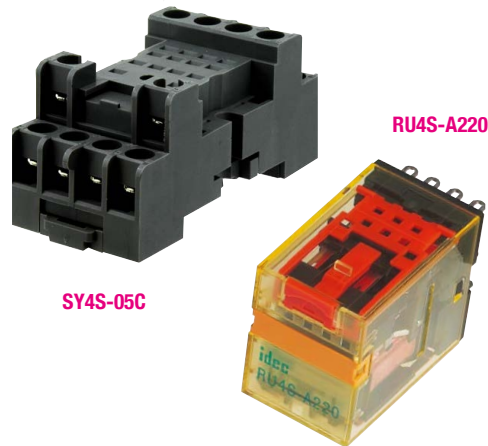
SY4S-05E1G1
RU4S-D24

RU4 - 4 Pole Relay - 6A

This relay compliments IDECs' reputation for quality products. Relays have a non-polarised LED indicator and a mechanical flag indicator. It is available in all common coil voltages and has a manual latching lever which is Green for DC relay and Orange for AC relays.

Relays conform to IEC 61810-1, UL508, CSA C22.2 No. 14

REF NO	Description	PRICE
RU4S-D12	4 Pole Relay - 12VDC	5.12
RU4S-D24	4 Pole Relay - 24VDC	5.12
RU4S-D110	4 Pole Relay - 110VDC	5.62
RU4S-A24	4 Pole Relay - 24VAC	5.12
RU4S-A110	4 Pole Relay - 110VAC	5.62
RU4S-A220	4 Pole Relay - 220VAC	5.62
SY4S-05E1G1	Relay Base for DIN rail mounting Black	5.61
SY4S-05C	Relay Base for DIN rail mounting Black	5.21



SY4S-05C

RU4S-A220

RJ Slim Power Relays - 12A Single Pole

The RJ relay is available as a single pole 12A device or double pole 8A device.

- Electrical Life: 200000 operations (AC load)
- Mechanical Life: 30 million operations (AC coil)
- Non-polarised LED indicator
- RoHS directive compliant
- UL recognised, CSA certified and EN compliant

REF NO	Description	PRICE
RJ1S-CL-D12	Single Pole 12A Relay - 12VDC	4.91
RJ1S-CL-D24	Single Pole 12A Relay - 24VDC	4.91
RJ1S-CL-A24	Single Pole 12A Relay - 24VAC	4.91
RJ1S-CL-A110	Single Pole 12A Relay - 110VAC	5.51
RJ1S-CL-A230	Single Pole 12A Relay - 230VAC	6.59
SJ1S-07L	Relay Base for RJ1S relays	2.87



RJ2S-CL-D24

RJ Slim Power Relays - 8A Double Pole

REF NO	Description	PRICE
RJ2S-CL-D12	Double Pole 8A Relay - 12VDC	5.15
RJ2S-CL-D24	Double Pole 8A Relay - 24VDC	5.15
RJ2S-CL-A24	Double Pole 8A Relay - 24VAC	5.15
RJ2S-CL-A110	Double Pole 8A Relay - 110VAC	5.75
RJ2S-CL-A230	Double Pole 8A Relay - 230VAC	6.94
SJ2S-07L	Relay Base for RJ2S relays	3.08



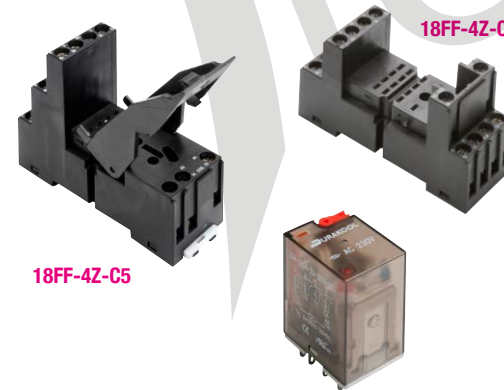
SJ2S-07L
BASE ONLY



10FF-3Z-C3

Industrial 10 Amp Relays - 2 & 3 Pole

REF NO	Description	PRICE
HF10FH024D2ZDT	Double Pole 24VDC	5.48
HF10FH024A2ZDT	Double Pole 24VAC	5.40
HF10FH120A2ZDT	Double Pole 110VAC	5.82
HF10FH230A2ZDT	Double Pole 230VAC	6.38
10FF-2Z-C2	Double Pole 8 Pin Base	1.56
HF10FH024D3ZDT	Three Pole 24VDC	6.70
HF10FH024A3ZDT	Three Pole 24VAC	6.72
HF10FH120A3ZDT	Three Pole 110VAC	7.28
HF10FH230A3ZDT	Three Pole 230VAC	6.92
10FF-3Z-C3	Three Pole 11 Pin Base	1.88



18FF-4Z-C4

18FF-4Z-C5

5 Amp Four Pole Change-Over Relays with Flag & LED

REF NO	Description	PRICE
HF18FH0244Z1D	Four Pole 24VDC	2.96
HF18FHA0244Z1D	Four Pole 24VAC	3.06
HF18FHA1204Z1D	Four Pole 110VAC	3.74
HF18FHA2404Z1D	Four Pole 230VAC	3.68
18FF-4Z-C4	14 Pin 4 Pole Turret Style Base	1.95
18FF-4Z-C5	14 Pin 4 Pole Safe Separation Base	2.36
18F-ERC	Four Pole Relay Securing Clip	0.76

Slim-line Interface Relays

Space saving Single Pole Interface relays with a width of 6mm wide and only 70mm in height from the DIN rail. The relay is pre-assembled into a DIN mounted socket.

- 400V AC Maximum switching voltage
- 1500VA Maximum switching power
- Built in LED & Ejector Clip
- 1 x Change Over Contact

REF NO	Voltage	Power Consumption	PRICE
41F-1Z-C2-1-12	12V AC/DC	16mA	5.50
41F-1Z-C2-1-24	24V AC/DC	12mA	5.68
41F-1Z-C2-3-125	125V AC	5mA	7.86
41F-1Z-C2-4-240	240V AC	4mA	8.06
41F-20	20 Way Jumper Bar		1.22



41F-1Z-C2-4-240

DME Lovato Single & Three Phase Energy Meters



See Our Full Range on Pages 342-343

DIN Timer TMM1

A DIN Rail mounted multifunction timer with a supply voltage of 12-240V AC/DC. Green LED indicates supply voltage and Yellow LED indicates energisation. Flashing Green LED Indicates measurement of time.

- On Delay - Delay on make
- Pulse on relay energising with start when energised
- Flasher starting with OFF interval, equal timing recycle
- Flasher starting with ON interval, equal timing recycle
- Off Delay; Relay energising at external contact closing with start on break
- Pulse on relay energising with start on external contact closing
- Pulse on relay energising with start on external contact opening
- On-Off delay. Delay on make with start at external contact closing and delay at break with start at external contact opening
- Internal On/Off Trigger with relay contact closing or operating at each closing of an external contact
- Pulse generator, unequal timing recycle starting with OFF pulse time and 0.5s ON pulse

REF NO	Description	PRICE
TMM1	Multifunction Timer 0.1 seconds - 240 Hours 1 x Timed Change-Over Contact - 8A	23.88



DIN Timer TMM1NFC

A DIN Rail mounted multifunction time relay with a supply voltage of 12-240V AC/DC. LEDs on the front signal the presence of power and status of the contact.

- 1 Relay output with changeover contact 8A 250VAC
- 38 Functions (including all of the functions of TMM1, TMP, TMPL)
- Time range from 0.1sec to 999 hours.
- 1 Input for external control (to start the function via contact or to pause the timing)
- Programming via smartphone with NFC and APP.
- QR code on the front for direct access to the technical documentation
- Modular DIN housing, 1 module
- Fixing on 35mm DIN rail.

REF NO	Description	PRICE
TMM1NFC	Multifunction Time Relay 0.1 seconds - 999 Hours 1 x Timed Change-Over Contact - 8A	33.75



DIN Timer V0DDTS

A DIN Rail mounted multifunction timer with a supply voltage of 24-240V AC/DC with a red LED, Relay ON Indication. The timer has a 3 Digit LCD for setting Preset and Run time

- ON Delay
- Cyclic OFF/ON
- Cyclic ON/OFF
- Signal ON/OFF
- Signal OFF Delay
- Interval
- Signal OFF/ON
- One Shot Output

REF NO	Description	PRICE
V0DDTS	Multifunction Timer 0.1 seconds - 999 Hours 1 x Timed Change-Over Contact - 8A	24.87

SPECIAL OFFER!

ONLY
£18.99
Multifunction
NFC Timer
TMM1NFC



DIN Timer MFE

A DIN Rail mounted multifunction timer with a supply voltage of 24-240V AC/DC. Green LED indicates supply voltage and Red LED indicates energisation. All functions and times can be set by potentiometers with +/- screws on the front of the device.

- Delay On
- Delay on Release
- Single Pulse on Operate
- Flasher, starting with 'ON'
- Flasher, starting with 'OFF'
- Pulse Former

REF NO	Description	PRICE
1SVR550029R8100	MFE Multifunction Timer 0.05 seconds - 100 hours 1 x Timed Change-Over Contact	53.04



1SVR550029R8100

Phase Unbalance Relay - CM-PAS

The CM-PAS phase unbalance relay monitors three phase mains for phase unbalance and phase failure even in the case of 95% return voltage in the phase that has failed. The output relays are de-energised delayed(0.1-10 Seconds) if the phase unbalance of the phases to be monitored exceeds the set unbalance threshold value. The switching threshold for permissible unbalance is adjustable between 2 and 15%. This enables a short-term suppression of fault signals. The fault type is indicated by LED's. The output relays re-energise undelayed as soon as the voltage returns to the tolerance range, taking into account a fixed hysteresis of 20%

- Supply Voltage 380 - 415V AC
- Power Consumption 2VA
- Tolerance of Supply Voltage -20% to +20%
- Duty Time 100%
- Fixed Delay on Respose 500mS for phase unbalance
- Output Circuit Relay, Single C/O Contact
- Switching Voltage 400V
- Switching Current - Resistive 4A (230V AC)
- Switching Current - Inductive 2A (230V AC)
- Short Circuit Fuse Rating Maximum 10A Fast
- Operating Temperature -25°C to +65°C
- DIN Rail Mounting

REF NO	Description	PRICE
1SVR730774R3300	CM-PAS Relay Supply Voltage 380-415V AC	163.56



1SVR730774R3300

Distribution

iLECSYS Rail

iLECSYS Fabrication

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Contact Us

A range of control panel transformers conforming to EN60742, IEC742 and IEC61558.

They are double wound with earth screen between windings and have a frequency range of 50/60Hz.

Suitable for continuous duty with full varnish impregnation for silent running. Connections are made via a terminal block to which primary and secondary fuses may be added if required.

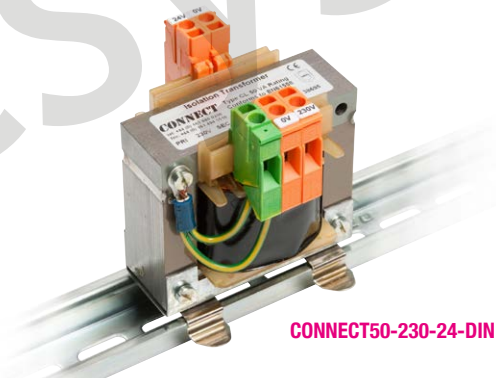


CONNECT250-230-24

Open Frame Transformers - 230V Input - 24V Output for TS35 Tophat DIN Rail Mounting

These DIN rail mounting transformers are so simple to use by mounting directly onto TS35 DIN rail. They conform to the same standards as the normal range.

REF NO	Description	PRICE
CONNECT25-230-24-DIN	Transformer 25VA 230V-24V for direct mounting to DIN Rail	23.31
CONNECT50-230-24-DIN	Transformer 50VA 230V-24V for direct mounting to DIN Rail	26.25
CONNECT100-230-24-DIN	Transformer 100VA 230V-24V for direct mounting to DIN Rail	31.92



CONNECT50-230-24-DIN

Open Frame Transformers - 230V Input - 24V Output

REF NO	Description	PRICE
CONNECT25-230-24	25VA 230V - 24V	15.23
CONNECT50-230-24	50VA 230V - 24V	17.85
CONNECT100-230-24	100VA 230V - 24V	23.10
CONNECT150-230-24	150VA 230V - 24V	28.14
CONNECT200-230-24	200VA 230V - 24V	32.97
CONNECT250-230-24	250VA 230V - 24V	37.80
CONNECT300-230-24	300VA 230V - 24V	42.21
CONNECT400-230-24	400VA 230V - 24V	50.61
CONNECT500-230-24	500VA 230V - 24V	57.96
CONNECT750-230-24	750VA 230V - 24V	84.21
CONNECT1000-230-24	1000VA 230V - 24V	114.45
CONNECT1500-230-24	1500VA 230V - 24V	148.93

All other primary and secondary voltage arrangements are available together with multi-tap options.

Auto Transformers available up to 550kW
Three Phase Transformers available up to 160kW.

Please contact us for details.

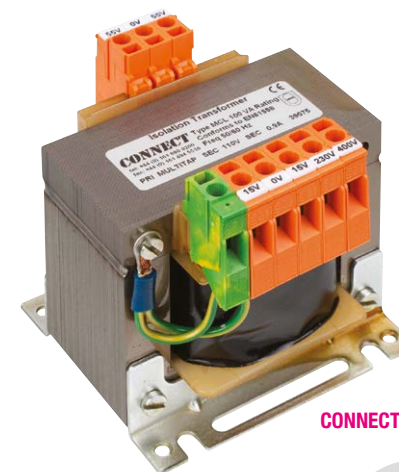
5 x 20mm Fuses & Fuse Carrier

REF NO	Description	PRICE
CONNECT FUSEHOLDER	Add-on Fuse Carrier	3.78
S500-1A	1A - Glass Fuse	0.27
S500-2A	2A - Glass Fuse	0.27
S500-3.15A	3.15A - Glass Fuse	0.27
S500-4A	4A - Glass Fuse	0.27
S500-5A	5A - Glass Fuse	0.27
S500-6.3A	6.3A - Glass Fuse	0.27
S500-10A	10A - Glass Fuse	0.31
S500-12.5A	12.5A - Glass Fuse	0.45
S500-16A	16A - Glass Fuse	0.45
S500-20A	20A - Glass Fuse	0.45



Open Frame Transformers - 400/230V Input 12V-0V-12V Output 24V Centre Tap

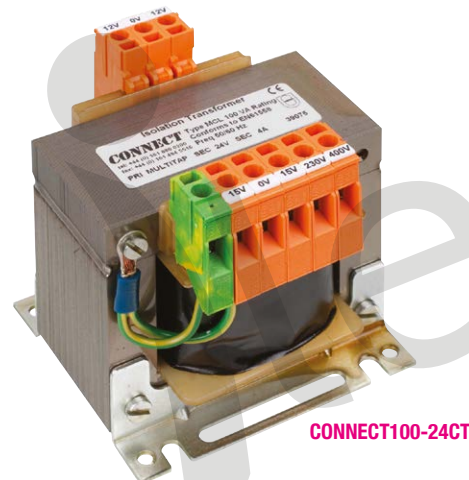
REF NO	Description	PRICE
CONNECT25-24CT	25VA 400/230V - 24V	16.46
CONNECT50-24CT	50VA 400/230V - 24V	19.32
CONNECT100-24CT	100VA 400/230V - 24V	25.24
CONNECT150-24CT	150VA 400/230V - 24V	29.72
CONNECT200-24CT	200VA 400/230V - 24V	39.27
CONNECT250-24CT	250VA 400/230V - 24V	40.15
CONNECT300-24CT	300VA 400/230V - 24V	44.98
CONNECT400-24CT	400VA 400/230V - 24V	53.28
CONNECT500-24CT	500VA 400/230V - 24V	61.30
CONNECT750-24CT	750VA 400/230V - 24V	87.93
CONNECT1000-24CT	1000VA 400/230V - 24V	119.15
CONNECT1500-24CT	1500VA 400/230V - 24V	156.02



CONNECT100M-110

Open Frame Transformers -400/230V Input 110V Output

REF NO	Description	PRICE
CONNECT25M-110	25VA 400/230V - 110V	15.96
CONNECT50M-110	50VA 400/230V - 110V	19.32
CONNECT100M-110	100VA 400/230V - 110V	24.78
CONNECT150M-110	150VA 400/230V - 110V	29.72
CONNECT200M-110	200VA 400/230V - 110V	34.44
CONNECT250M-110	250VA 400/230V - 110V	39.27
CONNECT300M-110	300VA 400/230V - 110V	44.10
CONNECT400M-110	400VA 400/230V - 110V	52.08
CONNECT500M-110	500VA 400/230V - 110V	60.06
CONNECT750M-110	750VA 400/230V - 110V	86.10
CONNECT1000M-110	1000VA 400/230V - 110V	116.76
CONNECT1500M-110	1500VA 400/230V - 110V	145.95



CONNECT100-24CT

Dimensions

Rating VA	Primary Fuse Rating		Height (inc terminals)	Width	Depth	Fixing Centres		Weight kg
	230V	400V				Width	Depth	
25	0.4A	0.16A	77	66	68	50	44	0.7
50	0.4A	0.16A	86	76	70	56	47	1.1
100	0.63A	0.4A	95	84	78	64	63	2.1
150	1A	0.63A	102	96	76	84	65	2.25
200	1.6A	1A	102	96	86	84	72	2.8
250	2.5A	2A	102	96	101	84	90	3.7
300	2.5A	1.6A	122	120	88	90	73	4.4
400	3.15A	2A	122	120	100	90	85	5.3
500	5A	3.5A	122	120	120	90	106	6.5
750	6.3A	4A	140	150	145	122	90	8.0
1000	8A	5A	140	150	161	122	106	10.0
1500	10A	6.3A	140	150	188	122	134	14.0

The STX Xenon Beacon is a compact, robust 5 Joule Xenon strobe beacon ideal for all general signalling applications including fire, security and process control.

The L101H is a high output LED beacon which can be user set to either steady or flashing mode.



NEW!

STX Xenon Beacon - IP65

- Xenon discharge tube
- High 2 Joules 1Hz output
- Operating temperature -20 to +55°C
- Available in Red, Amber, Green, Blue & Clear
- Two mounting options
- 180° Visibility
- Dimensions: 49mmW x 76mmH

REF NO	Description	PRICE
STX-24DA-R	10-28VAC/DC Red Xenon Beacon	27.38
STX-24DA-A	10-28VAC/DC Amber Xenon Beacon	27.38
STX-24DA-G	10-28VAC/DC Green Xenon Beacon	27.38
STX-24DA-B	10-28VAC/DC Blue Xenon Beacon	27.38
STX-24DA-C	10-28VAC/DC Clear Xenon Beacon	27.38
STX-230A-R	110-230VAC Red Xenon Beacon	34.23
STX-230A-A	110-230VAC Amber Xenon Beacon	34.23
STX-230A-G	110-230VAC Green Xenon Beacon	34.23
STX-230-A-B	110-230VAC Blue Xenon Beacon	34.23
STX-230A-C	110-230VAC Clear Xenon Beacon	34.23



L101 Xenon Strobe Beacon - IP66

- 200 Candela Output (clear lens)
- 5 lens colours available
- Tube life of 5 million flashes
- Enclosure made from UL94V0 & 5VA rated FR ABS
- Lens made from Polycarbonate
- Available in Red, Grey & White housing
- UL approved version available
- Mounting via internal BESA compatible fixing positions
- Terminals accept 0.5mm to 4mm² cable
- Dimensions: 86mmH x 86mmW x 83mmD

REF NO	Description	PRICE
L101X-DC024B**	24V AC/DC Xenon Beacon	52.89
L101X-AC115B***	115V AC Xenon Beacon	47.63
L101X-AC230B***	230V AC Xenon Beacon	47.63

The table below gives the case colour options and lens colour options. The voltage determines the price. Please see below for colour variations in the housing and lens.

PRODUCT	SUPPLY	VOLTAGE	HOUSING	LENS
L101X	DC	12	R Red	R Red
		24	W White	A Amber
	AC	115	G Grey	B Blue
		230		C Clear
			G Green	

The Eaton Signal Towers indicate machine status by means of visual and acoustic signals. The IP66 product is available with several different mounting options to meet individual requirements.

The acoustic modules have 8 selectable signals and adjustable volume levels up to 100dB. The bright and efficient LEDs have a lifespan of up to 100,000 hours and are available in 24V, 120V and 230VAC versions.



Base Modules - SL7 - 70mm Diameter

Different base modules are available according to fixing preferences. They come complete with a lid which is removed and fitted to the top tier LED module when built.

REF NO	Description	PRICE
SL7-CB-100	Base with 100mm aluminium tube & plastic foot	37.11
SL7-CB-250	Base with 250mm aluminium tube & plastic foot	40.74
SL7-CB-EMH	Base with external fixing holes	35.37
SL7-FMS-100	Base with 100mm tube & adapter for quarter turn fixing (rapid mounting and wiring system)	125.92
SL7-FMS-250	Base with 250mm tube & adapter for quarter turn fixing (rapid mounting and wiring system)	130.16



Light Modules - SL7 - 70mm Diameter

REF NO	Description	PRICE
SL7-L24-**	Continuous Light 24V AC/DC	46.93
SL7-L120-**	Continuous Light 110/120V AC	56.42
SL7-L230-**	Continuous Light 230/240V AC	56.42
SL7-BL24-**	Flashing Light 24V AC/DC	54.92
SL7-BL120-**	Flashing Light 110/120V AC	66.04
SL7-BL230-**	Flashing Light 230/240V AC	66.04
SL7-FL24-**	Strobe Light 24V AC/DC	83.06
SL7-FL120-**	Strobe Light 110/120V AC	83.06
SL7-FL230-**	Strobe Light 230/240V AC	83.06

Acoustic Modules - SL7 - 70mm Diameter

The acoustic modules are available in two version as listed below. Both versions are adjustable with an internal DIP switch. Sound pressure can be altered up to 100dB with an internal potentiometer.

REF NO	Description	PRICE
SL7-AP24	Continuous or Pulsed Tone 24V AC/DC	61.64
SL7-AP120	Continuous or Pulsed Tone 110/120V AC/DC	61.64
SL7-AP230	Continuous or Pulsed Tone 230/240V AC/DC	61.64
SL7-AP24-M	Multi-Tone, Eight Tones 24V AC/DC	94.25
SL7-AP120-M	Multi-Tone, Eight Tones 110/120V AC/DC	94.25
SL7-AP230-M	Multi-Tone, Eight Tones 230/240V AC/DC	94.25

** Replace with B - Blue; G-Green; R-Red; W-White; Y-Yellow; A-Amber
A maximum of 5 Modules Per Tower
40mm diameter version also available



Lovato offer a superior range of Monoblock Pilot lights which are made in their own factory in Italy. Life expectancy > 50,000 Hours.

They comply with IEC/EN 60947-1, IEC/EN60947-5-1, UL508 & CSA C22.2 No. 14.

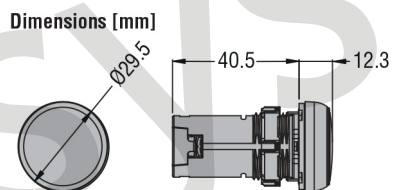
The operating temperature is -25 to +70°C and they are rated to IP66, IP68 and IP69K.

They are available in 12VAC/DC, 24VAC/DC, 48VAC/DC, 110VAC, 230VAC.



22mm Mounting LED - Plastic

REF NO	Colour	Voltage	PRICE
LPMLE1	Orange	110-120V AC/DC	2.75
LPMLE3	Green	110-120V AC/DC	2.75
LPMLE4	Red	110-120V AC/DC	2.75
LPMLE5	Yellow	110-120V AC/DC	2.75
LPMLE6	Blue	110-120V AC/DC	2.75
LPMLE7	Transparent (White)	110-120V AC/DC	2.75
LPMLM1	Orange	230V AC/DC	2.75
LPMLM3	Green	230V AC/DC	2.75
LPMLM4	Red	230V AC/DC	2.75
LPMLM5	Yellow	230V AC/DC	2.75
LPMLM6	Blue	230V AC/DC	2.75
LPMLM7	Transparent (White)	230V AC/DC	2.75



Tightening Spanner

REF NO	Description	PRICE
8LM2TA200	Spanner for tightening Locking Rings	12.90



NEW!

IP65 GAZ Enclosed Isolators

See page 223

Lovato

22mm Mounting LED - Plastic

REF NO	Colour	Voltage	PRICE
AD22-R12	Red	12V AC/DC	1.75
AD22-G12	Green	12V AC/DC	1.75
AD22-A12	Yellow	12V AC/DC	1.75
AD22-R24	Red	24V AC/DC	1.75
AD22-G24	Green	24V AC/DC	1.75
AD22-A24	Yellow	24V AC/DC	1.75
AD22-W24	White	24V AC/DC	1.75
AD22-B24	Blue	24V AC/DC	1.75
AD22-2C-RG-24	Red/Green	24V AC/DC	3.74
AD22-R110	Red	110V AC	1.75
AD22-G110	Green	110V AC	1.75
AD22-A110	Yellow	110V AC	1.75
AD22-W110	White	110V AC	1.75
AD22-B110	Blue	110V AC	1.75
AD22-2C-RG-110	Red /Green	110V AC	3.74
AD22-R230	Red	230V AC	1.75
AD22-G230	Green	230V AC	1.75
AD22-A230	Yellow	230V AC	1.75
AD22-W230	White	230V AC	1.75
AD22-B230	Blue	230V AC	1.75
AD22-2C-RG-230	Red/ Green	230V AC	3.74
SP22	Spanner		6.00



22mm Mounting LED - with Lamp Test

REF NO	Colour	Voltage	PRICE
AD22-R24-LT	Red	24V AC/DC	2.95
AD22-G24-LT	Green	24V AC/DC	2.95
AD22-A24-LT	Yellow	24V AC/DC	2.95
AD22-W24-LT	White	24V AC/DC	2.95
AD22-B24-LT	Blue	24V AC/DC	2.95
AD22-R230-LT	Red	230V AC	2.95
AD22-G230-LT	Green	230V AC	2.95
AD22-A230-LT	Yellow	230V AC	2.95
AD22-W230-LT	White	230V AC	2.95
AD22-B230-LT	Blue	230V AC	2.95

The Monobloc LEDs have a continuous operation life of 30,000 hours and a brightness of 40-60CD/M²

They have an operating current of 16mA and are IP65 rated from the front.



16mm Mounting LED - Plastic

REF NO	Colour	Voltage	PRICE
AD22-16B-R24	Red	24V AC/DC	1.82
AD22-16B-G24	Green	24V AC/DC	1.82
AD22-16B-Y24	Yellow	24V AC/DC	1.82
AD22-16B-W24	White	24V AC/DC	1.82
AD22-16B-B24	Blue	24V AC/DC	1.82
AD22-16B-R110	Red	110V AC	1.82
AD22-16B-G110	Green	110V AC	1.82
AD22-16B-Y110	Yellow	110V AC	1.82
AD22-16B-W110	White	110V AC	1.82
AD22-16B-B110	Blue	110V AC	1.82
AD22-16B-R230	Red	230V AC	1.82
AD22-16B-G230	Green	230V AC	1.82
AD22-16B-Y230	Yellow	230V AC	1.82
AD22-16B-W230	White	230V AC	1.82
AD22-16B-B230	Blue	230V AC	1.82



The LT series of lamp test units, which mount onto TS35 DIN rail, offer a convenient and compact method of providing signals for testing lamps in control panels. The units consist of one to four pole relays which, when operated by an external pushbutton, disconnects the normal signals and outputs a test voltage to each lamp. Each relay provides 4 circuits.

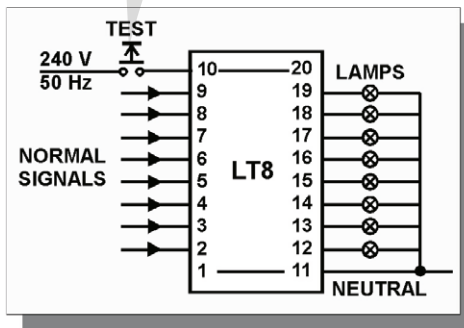
They are available in 240VAC, 100VAC, 24VAC, 24VDC and 12VDC models. Two pairs of terminals are linked on each unit to facilitate parallel wiring to additional units.



LT12-**

Lamp Test Units

REF NO	Description	PRICE
LT4-(voltage)	Four way lamp test unit	13.33
LT8-(voltage)	Eight way lamp test unit	26.67
LT12-(voltage)	Twelve way lamp test unit	40.00
LT16-(voltage)	Sixteen way lamp test unit	46.67



The above diagram shows the operating principle. Please note that all signals must be of the same voltage and phase.

22.5mm Panel Mounted Alarm / Buzzers

A range of 22.5mm Peizo audible alarms 70dB with a choice of continuous or pulsating options, with or without flashing LED.

REF NO	Description	PRICE
SP-22B-24	24V AC/DC Pulsating Alarm	3.47
SP-22B-110	110V AC Pulsating Alarm	3.47
SP-22B-230	230V AC Pulsating Alarm	3.47
SC-22B-24	24V AC/DC Continuous Alarm	3.47
SC-22B-110	110V AC Continuous Alarm	3.47
SC-22B-230	230V AC Continuous Alarm	3.47
SP-22R-24	24V AC/DC Pulsating Alarm with Red Flashing LED	3.78
SP-22R-110	110V AC Pulsating Alarm with Red Flashing LED	3.78
SP-22R-230	230V AC Pulsating Alarm with Red Flashing LED	3.78
SC-22R-24	24V AC/DC Continuous Alarm with Red Continuous LED	3.78
SC-22R-110	110V AC Continuous Alarm with Red Continuous LED	3.78
SC-22R-230	230V AC Continuous Alarm with Red Continuous LED	3.78

SC-22B-24



SC-22R-24

29mm Panel Mounted Buzzers

A range of 29mm audible alarms with a minimum of 85dB sound output.

REF NO	Description	PRICE
KPEG-651SAN	6 - 28V AC/DC Continuous Alarm 87dB	8.50
KPEG-655SA	6 - 28V AC/DC with Continuous or Pulsating Option 92dB	8.50
KPE-620SAN	6 - 250V AC Continuous Alarm 85dB	9.50
KPE-621SAN	6 - 250V AC Pulsating Alarm 87dB	9.50

KPEG-655SA



Emergency Stops - HW Plastic Bezel

HW Emergency Stops comply with IEC regulations and EN418.

REF NO	Description	PRICE
HW1B-V3F01R	Push to lock - Twist to release; 29mm head 1 x N/C contact	14.41
HW1B-V4F01R	Push to lock - Twist to release; 40mm head 1 x N/C contact	14.70
HW1B-X4F01R	Push to lock - Key reset; 40mm head 1 x N/C contact	29.29
HW1B-Y2F01R	Push to lock / Pull to release; 40mm head 1 x N/C contact	18.61

HW1B-V4F01R



HW1B-X4F01R

Additional Blocks & Emergency Stop Shroud

REF NO	Description	PRICE
HW-U10	Normally Open	3.00
HW-U01	Normally Closed	3.00
HW9Z-KG1-TK2120	The shroud prevents accidental operation of the emergency stop.	17.10

HW9Z-KG1-TK2120



HW-U01

The Emergency Stop Shroud cannot be used on the HW1X Stations as it obscures the screws of the enclosure.

The HW range of Emergency Stops comply with EN60947-5-5, the IEC E-Stop Addendum to the Low Voltage Directive. This includes 'tamper-proof operation whereby a change of contact state is not possible by 'teasing' or 'floating' the operator.



HW1X-BV4F01R

Emergency Stop Stations with 22.5mm Switch

REF NO	Description	PRICE
Twist to Release - 40mm Head		
HW1X-BV401-R	1 x N/C contact	40.30
HW1X-BV411-R	1 x N/C, 1 x N/O contacts	41.83
HW1X-BV402-R	2 x N/C contacts	41.83
Pull to Reset - 40mm Head		
HW1X-BY401-R	1 x N/C contact	40.30
HW1X-BY411-R	1 x N/C, 1 x N/O contacts	41.83
HW1X-BY402-R	2 x N/C contacts	41.83
Key Release - 40mm Head		
HW1X-BX401-R	1 x N/C contact	40.30
HW1X-BX411-R	1 x N/C, 1 x N/O contacts	42.11
HW1X-BX402-R	2 x N/C contacts	44.10

HW1X-BX4F01R



The HW range is fixed from the front of the panel. The black plastic bezel gives a modern look to the control panel.

They conform to EN60947-1, EN60947-5-1, VDE0660-200, UL508, CSA C22-2 No. 14, UL File No. E68961, CSA File No. LR92374. CE Marked.

The Operating temperature is -25 to +50°C and they are IP65 from panel front. Contact blocks are IP20 and rated at 10A (Thermal).

Mechanical life is 5,000,000 operation of pushbuttons, 500,000 on all other switches.

Pushbutton Body HW1 - Plastic Bezel

REF NO	Description	PRICE
HW1B-M1F10-*	Momentary pushbutton 1 x N/O contact	7.70
HW1B-M1F11-*	Momentary pushbutton 1 x N/O, 1 x N/C contact	11.19
HW1B-M1F01-*	Momentary pushbutton 1 x N/C contact	7.70
HW1B-A1F11-*	Alternate action pushbutton 1 x N/O, 1 x N/C contact	15.54
HW-U10	Normally Open Contact Block	3.00
HW-U01	Normally Closed Contact Block	3.00

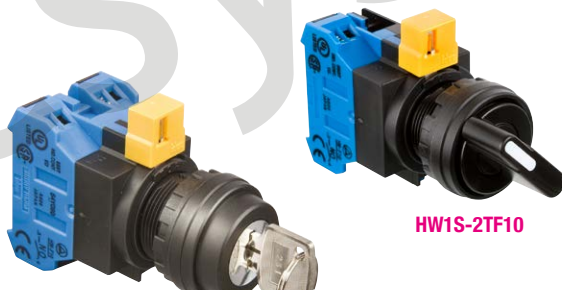


Select colour in place of *
Black - B; Blue - S; Green - G; Red - R;
White - W; Yellow - Y



Selector Switches - HW1 - Plastic Bezel

REF NO	Description	PRICE
HW1S-2TF10	2 position maintained; 1 x N/O contact	9.62
HW1S-2TF11	2 position maintained 1 x N/O, 1 x N/C contact	12.59
HW1S-2TF20	2 position maintained; 2 x N/O contacts	12.59
HW1S-21TF10	2 position spring return right to left 1 x N/O contact	9.62
HW1S-21TF11	2 position spring return right to left 1 x N/O contact, 1 x N/C contact	12.59
HW1S-21TF20	2 position spring return right to left 2 x N/O contacts	12.81
HW1S-3TF20	3 position maintained; 2 x N/O contacts	12.58
HW1S-31TF20	3 position spring return right to centre Stay put to left; 2 x N/O contacts	12.58
HW1S-33TF20	3 position spring return left & right to centre; 2 x N/O contacts	12.58
HW1S-4TF22N3	4 position maintained 1 x N/O contact closing each position	20.60
HW1S-5TF22N3	5 position maintained with 1 x N/O contact closing in each position with centre off	18.89



HW1K-3AF20



HW-U10

HW-U01

Key Switch Body - HW1 - Plastic Bezel

REF NO	Description	PRICE
HW1K-2AF10	2 position maintained; 1 x N/O contact	16.86
HW1K-2AF11	2 position maintained 1 x N/O, 1 x N/C contact	19.44
HW1K-2AF20	2 position maintained; 2 x N/O contacts	19.44
HW1K-21BF10	2 Position Spring Return; 1 x N/O Contact	16.49
HW1K-3AF20	3 position maintained; 2 x N/O contacts	19.44
HW1K-31BF20	3 position spring return right to centre Stay put to left; 2 x N/O contacts	19.44
HW1K-33DF20	3 position spring return left & right to centre 2 x N/O contacts	19.44

Pilot Lamps - HW - Plastic Bezel

REF NO	Description	PRICE
HW1P-1FQ0-*	Direct connection (Select LED)	8.28
HW1P-1FH0-*	Via 110V transformer (6.3V LED Included)	POA
HW1P-1FM3-*	Via 240V transformer (6.3V LED Included)	POA



HW1P-1FM3-S



Select colour in place of *
Blue - S; Green - G; Red - R; Clear - C
White - W; Amber - A

Spare Pilot Lamp Lenses - HW

REF NO	Description	PRICE
HW1A-P1-R	Red lens for HW lamp	2.32
HW1A-P1-G	Green lens for HW lamp	2.32
HW1A-P1-A	Amber lens for HW lamp	2.32
HW1A-P1-W	White lens for HW lamp	2.32
HW1A-P1-S	Blue lens for HW lamp	2.32



Lamps & LEDs

REF NO	Description	PRICE
LSTD6-A	BA9s 6V AC/DC LED Amber	3.93
LSTD6-R	BA9s 6V AC/DC LED Red	3.93
LSTD6-G	BA9s 6V AC/DC LED Green	3.93
LSTD6-W	BA9s 6V AC/DC LED White	3.93
LSTD2-A	BA9s 24V AC/DC LED Amber	3.93
LSTD2-R	BA9s 24V AC/DC LED Red	3.93
LSTD2-G	BA9s 24V AC/DC LED Green	3.93
LSTD2-W	BA9s 24V AC/DC LED White	3.93
LSTD2-S	BA9s 24V AC/DC LED Blue	3.93

Illuminated Pushbuttons - HW

REF NO	Description	PRICE
HW1L-M1F11Q-*	Direct connected - 1 x N/O & 1 x N/C (Select LED)	POA
HW1L-M1F11H-*	Via 110V transformer - 1 x N/O & 1 x N/C (6.3V LED Included)	POA
HW1L-M1F11M3-*	Via 240V transformer - 1 x N/O & 1 x N/C (6.3V LED Included)	POA



Select colour in place of *
Blue - S; Green - G; Red - R; Clear - C
White - W; Amber - A

Spare Illuminated Pushbutton Lenses - HW

REF NO	Description	PRICE
Flush Lens		
HW1A-L1-R	Red lens for HW Illuminated P/button	2.13
HW1A-L1-G	Green lens for HW Illuminated P/button	2.13
HW1A-L1-A	Amber lens for HW Illuminated P/button	2.13
HW1A-L1-W	White lens for HW Illuminated P/button	2.13
HW1A-L1-S	Blue lens for HW Illuminated P/button	2.13
Extended Lens		
HW1A-L2-R	Red lens for HW Illuminated P/button	2.13
HW1A-L2-G	Green lens for HW Illuminated P/button	2.13
HW1A-L2-A	Amber lens for HW Illuminated P/button	2.13
HW1A-L2-W	White lens for HW Illuminated P/button	2.13
HW1A-L2-S	Blue lens for HW Illuminated P/button	2.13



HW1A-L1-W

The TW range is fixed from the front of the panel. This traditional range is widely used by control panel manufacturers.

They conform to EN60947-1, EN60947-5-1, VDE0660-200, UL508, CSA C22-2 No. 14, UL File No. E68961, CSA File No. LR1451. CE Marked.

The Operating temperature is -25 to +50°C and they are IP65 from panel front except the keyswitch which is IP55. Contact blocks are IP20 and rated at 10A (Thermal).

Mechanical life is 5,000,000 operation of pushbuttons, 500,000 on all other switches.

Selector Switches - TW

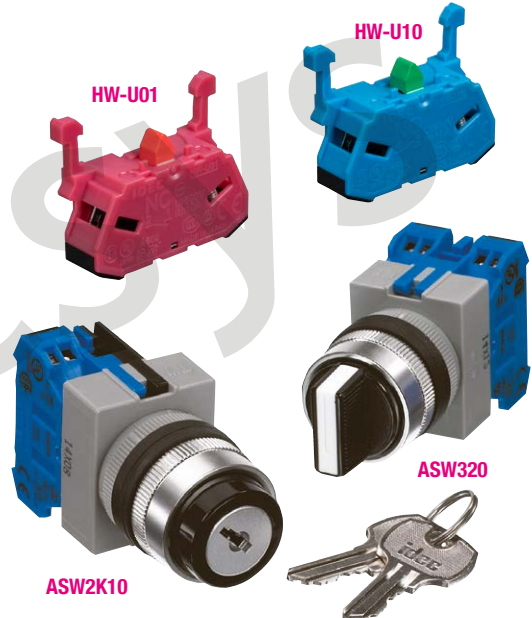
REF NO	Description	PRICE
ASW200	2 position maintained body	5.51
ASW210	2 position maintained; 1 x N/O contact	8.89
ASW2100	2 position spring return right to left - body only	5.61
ASW300	3 position maintained body	5.51
ASW320	3 position maintained; 2 x N/O contacts	11.86
ASW44S411	4 position maintained with 1 x N/O contact closing in each position	25.40
ASW54S501	5 position maintained with 1 x N/O contact closing in each position with centre off	36.12

Pushbutton Body - TW

REF NO	Description	PRICE
ABW110-*	Momentary pushbutton body; 1 x N/O contact	7.00
ABW111-*	Momentary pushbutton body; 1 x N/O; 1 x N/C contact	10.71
HW U10	Normally Open Contact Block	3.00
HW U01	Normally Closed Contact Block	3.00



Select colour in place of *
Black - B; Blue - S; Green - G; Red - R;
White - W; Yellow - Y



Key Switches - TW

REF NO	Description	PRICE
ASW2K10	2 position maintained; 1 x N/O contact	15.77
ASW2K20	2 position maintained; 2 x N/O contact	18.73
ASW2K11	2 position maintained 1 x N/O contact, 1 x N/C contact	18.73
ASW21K10	2 position - spring return right to left 1 x N/O contact	15.77
ASW3K20	3 position maintained; 2 x N/O contacts	18.73
ASW31K20	3 position - spring return right to centre and stay put to left; 2 x N/O contacts	18.73
ASW32K20	3 position - spring return left to centre and stay put to right; 2 x N/O contacts	18.73
ASW33K20	3 position - spring return left to centre and right to centre; 2 x N/O contacts	18.73

Spare Pushbutton Inserts - TW

REF NO	Description	PRICE
ABW1B-B	Black button - Flush	0.32
ABW1B-G	Green button - Flush	0.32
ABW1B-Y	Yellow button - Flush	0.32
ABW1B-R	Red button - Flush	0.32
ABW1B-W	White button - Flush	0.32
ABW1B-S	Blue button - Flush	0.32

Pilot Lamps - TW

REF NO	Description	PRICE
APW199-*	Direct connection (Select LED)	5.10
APW116-*	Via 110V transformer (6.3V LED Included)	POA
APW1246-*	Via 240V transformer (6.3V LED Included)	POA



Select colour in place of *
Blue - S; Green - G; Red - R; Clear - C
White - W; Amber - A

Spare Pilot Lamp Lenses - TW

REF NO	Description	PRICE
APW1L-R	Red lens for TW lamp	0.80
APW1L-G	Green lens for TW lamp	0.80
APW1LD-A	Yellow lens for TW lamp	0.80
APW1LD-W	White lens for TW lamp	0.80
APW1L-S	Blue lens for TW lamp	0.80
APW1L-C	Clear lens for TW lamp	0.80

Lamps & LEDs

REF NO	Description	PRICE
LSTD6-A	BA9s 6V AC/DC LED Amber	3.93
LSTD6-R	BA9s 6V AC/DC LED Red	3.93
LSTD6-G	BA9s 6V AC/DC LED Green	3.93
LSTD6-W	BA9s 6V AC/DC LED White	3.93
LSTD2-A	BA9s 24V AC/DC LED Amber	3.93
LSTD2-R	BA9s 24V AC/DC LED Red	3.93
LSTD2-G	BA9s 24V AC/DC LED Green	3.93
LSTD2-W	BA9s 24V AC/DC LED White	3.93
LSTD2-S	BA9s 24V AC/DC LED Blue	3.93

Illuminated Pushbuttons - TW

REF NO	Description	PRICE
ALW29911-*	Direct connected - 1 x N/O & 1 x N/C (Select LED)	POA
ALW21611-*	Via 110V transformer - 1 x N/O & 1 x N/C (6.3V LED Included)	POA
ALW224611-*	Via 240V transformer - 1 x N/O & 1 x N/C (6.3V LED Included)	POA



Select colour in place of *
Blue - S; Green - G; Red - R; Clear - C
White - W; Amber - A

Spare Illuminated Pushbutton Lenses - TW

REF NO	Description	PRICE
ALW2L-R	Red lens for TW Illuminated P/button	0.80
ALW2L-G	Green lens for TW Illuminated P/button	0.80
ALW2L-A	Amber lens for TW Illuminated P/button	0.80
ALW2L-W	White lens for TW Illuminated P/button	0.80
ALW2L-S	Blue lens for TW Illuminated P/button	0.80
ALW2L-C	Clear lens for TW Illuminated P/button	0.80



The Schneider Electric XB4 range of 22.5mm control units comprises pilot lights, pushbuttons, selector switches, joysticks, emergency stops and key operated actuators. The units are a minimum of IP66 conforming to IEC60529 and NEMA 4X and 13.

Flush Pushbutton Actuators IP66

REF NO	PRICE
ZB4BA1	4.49
ZB4BA2	4.47
ZB4BA3	4.47
ZB4BA4	4.47
ZB4BA5	4.47
ZB4BA6	4.52
ZB4BA331	6.39
ZB4BA432	6.39
ZB4BA334	6.27
ZB4BA335	6.27
ZB4BA333	6.39
ZB4BA434	6.39



Momentary Mushroom Head 40mm - IP66

REF NO	PRICE
ZB4BC2	10.03
ZB4BC3	10.40
ZB4BC4	10.03
ZB4BC5	10.40
ZB4BC6	10.40



Momentary Mushroom Head 60mm - IP66

REF NO	PRICE
ZB4BR2	11.55
ZB4BR3	12.33
ZB4BR4	12.33
ZB4BR5	11.41
ZB4BR6	11.09



Extended Pushbutton Actuators IP66

REF NO	PRICE
ZB4BL1	4.75
ZB4BL2	5.22
ZB4BL3	5.22
ZB4BL4	5.08
ZB4BL5	4.77
ZB4BL6	4.77
ZB4BL432	6.62



Flush Pushbutton Actuators with Clear Boot

REF NO	PRICE
ZB4BP1	6.82
ZB4BP2	7.29
ZB4BP3	6.96
ZB4BP4	6.82
ZB4BP5	7.29
ZB4BP6	7.29



Double Pushbutton IP66

REF NO	Description	PRICE
ZB4BA7341	2 Flush Buttons IP66	11.76
ZB4BL7341	Green Flush Button Red Projecting IP66	11.72



Standard Selector Switches IP66

REF NO	Description	PRICE
ZB4BD2	2 Position Selector Switch - Stay Put	8.59
ZB4BD4	2 Position Selector Switch - Spring Return	8.59
ZB4BD3	3 Position Selector Switch - Stay Put	8.59
ZB4BD5	3 Position Selector Switch - Spring Return	8.59
ZB4BD7	3 Position Selector Switch - Spring Return Left to Centre, Stay Put to the Right	9.14
ZB4BD8	3 Position Selector Switch - Spring Return Right to Centre, Stay Put to the Left	9.66



Long Handle Selector Switches IP66

REF NO	Description	PRICE
ZB4BJ2	2 Position Selector Switch - Stay Put	9.24
ZB4BJ4	2 Position Selector Switch - Spring Return	9.85
ZB4BJ3	3 Position Selector Switch - Stay Put	9.15
ZB4BJ5	3 Position Selector Switch - Spring Return	9.24
ZB4BJ7	3 Position Selector Switch - Spring Return Left to Centre, Stay Put to the Right	8.51
ZB4BJ8	3 Position Selector Switch - Spring Return Right to Centre, Stay Put to the Left	8.97

Key Switches - Key No 455 - IP66

REF NO	Description	PRICE
ZB4BG2	2 Position Key Switch - Stay put	23.39
ZB4BG4	2 Position Key Switch - Stay put Key removable in both positions	23.39
ZB4BG6	2 Position Key Switch - Spring Return	23.44
ZB4BG0	3 Position Key Switch - Stay put	23.42
ZB4BG3	3 Position Key Switch - Stay put Key removable in centre only	23.30
ZB4BG7	3 Position Key Switch - Spring Return	23.19
ZB4BG1	3 Position Key Switch - Spring Return Left to Centre, Stay Put to the Right	22.86
ZB4BG8	3 Position Key Switch - Spring Return Right to Centre, Stay Put to the Left	25.66



ZB4BG2

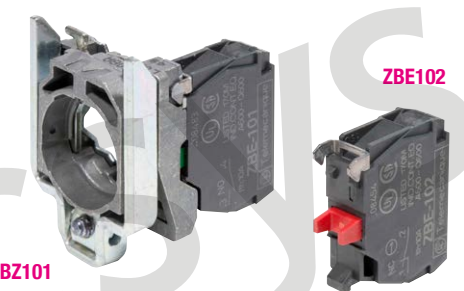
Legend Plates

REF NO	Description	PRICE
ZBY2101	BLANK (Black or Red Background)	0.82
ZBY4101	BLANK (White or Yellow Background)	0.83
ZBY2146	O (Black Background)	1.01
ZBY2931	O (Red Background)	1.06
ZBY2147	I	0.89
ZBY2148	II	1.06
ZBY2178	O-I	1.06
ZBY2179	I-II	1.06
ZBY2186	I-O-II	1.06
ZBY2115	AUTO	1.06
ZBY2364	AUTO-HAND	1.06
ZBY2385	AUTO-O-HAND	1.06
ZBY2314	CLOSE	1.06
ZBY2308	DOWN	1.06
ZBY2328	FAST	1.06
ZBY2305	FORWARD	1.06
ZBY2316	HAND	0.97
ZBY2387	HAND-OFF-AUTO	1.07
ZBY2321	INCH	1.06
ZBY2310	LEFT	1.06
ZBY2312	OFF	1.06
ZBY2367	OFF-ON	1.07
ZBY2311	ON	1.06
ZBY2313	OPEN	1.06
ZBY2326	POWER ON	1.04
ZBY2323	RESET (Red Background)	1.04
ZBY2322	RESET (Black Background)	1.28
ZBY2306	REVERSE	1.06
ZBY2309	RIGHT	1.06
ZBY2334	RUN	1.07
ZBY2327	SLOW	0.97
ZBY2303	START	1.04
ZBY2304	STOP	1.04
ZBY2366	STOP-START	1.06
ZBY2307	UP	1.06
ZBY2330	EMERGENCY STOP (Yellow Background)	1.06



Fixing Collars & Contact Blocks - Screw

REF NO	Description	PRICE
ZB4BZ101	Fixing Collar with 1 x N/O Block	5.59
ZB4BZ102	Fixing Collar with 1 x N/C Block	5.59
ZB4BZ103	Fixing Collar with 2 x N/O Block	9.31
ZB4BZ104	Fixing Collar with 2 x N/C Block	9.31
ZB4BZ105	Fixing Collar with 1 x N/O and 1 x N/C Block	9.31
ZB4BZ141	Fixing Collar with 1 x N/O and 2 x N/C Block	13.12
ZB4BZ009	Fixing Collar - No Contacts	2.00
ZBE101	Single N/O contact block	3.81
ZBE102	Single N/C contact block	3.81
ZBE1016	Single N/O - Low power switching	9.57
ZBE1026	Single N/C - Low power switching	9.57



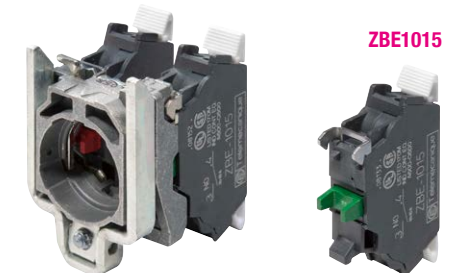
ZB4BZ101

ZBE102

Fixing Collars & Contact Blocks - Spring Clamp

The Spring Clamp terminal offers significant advantages over the screw version as there are no screws to re-tighten and a screwdriver is not required. Offers a very effective vibration resistance and will accept cable from 0.2mm² to 1.5mm² with or without ferrules.

REF NO	Description	PRICE
ZB4BZ1015	Fixing Collar with 1 x N/O Block	6.08
ZB4BZ1025	Fixing Collar with 1 x N/C Block	5.97
ZB4BZ1035	Fixing Collar with 2 x N/O Block	9.96
ZB4BZ1045	Fixing Collar with 2 x N/C Block	9.96
ZB4BZ1055	Fixing Collar with 1 x N/O and 1 x N/C Block	9.98
ZB4BZ009	Fixing Collar - No Contacts	2.00
ZBE1015	Single N/O contact block	4.01
ZBE1025	Single N/C contact block	3.93



ZB4BZ1055

ZBE1015

Plain Pilot Lamp LED Lens

REF NO	PRICE
ZB4BV013	3.43
ZB4BV033	3.43
ZB4BV043	3.43
ZB4BV053	3.43
ZB4BV063	3.59



Pilot Lamp LED Lens for use with Legend

REF NO	PRICE
ZB4BV013E	3.45
ZB4BV033E	3.39
ZB4BV043E	3.49
ZB4BV053E	3.35
ZB4BV063E	3.49



Integral LED Pilot Lamp Body

REF NO	PRICE
ZB4VB1	8.64
ZB4VB3	8.64
ZB4VB4	8.66
ZB4VB5	8.72
ZB4VB6	8.68
ZB4VG1	11.42
ZB4VG3	11.42
ZB4VG4	11.48
ZB4VG5	11.42
ZB4VG6	11.21
ZB4VM1	16.67
ZB4VM3	16.61
ZB4VM4	16.67
ZB4VM5	16.77
ZB4VM6	16.28

Up to 24V AC/DC

110-120V AC/DC

230-240V AC/DC



Integral LED Pilot Lamp Body with Lamp Test

REF NO	PRICE
ZBVB1	6.52
ZBVB3	6.83
ZBVB4	6.50
ZBVB5	6.50
ZBVB6	6.50
ZB4BZ009	2.00

Up to 24V AC/DC

Mounting Collar for ZBVB* when used with ZB4 lamps



Illuminated Flush LED Pushbutton Head

REF NO	PRICE
ZB4BW313	5.78
ZB4BW333	5.79
ZB4BW343	5.79
ZB4BW353	5.79
ZB4BW363	5.79



Flush Pushbutton Head with Illuminated Ring

REF NO	PRICE
ZB4BW913	7.52
ZB4BW933	7.50
ZB4BW943	7.52
ZB4BW953	7.52
ZB4BW963	7.52



Illuminated Flush LED Pushbutton Head for use with Legend

REF NO	PRICE
ZB4BA18	6.51
ZB4BA38	6.69
ZB4BA48	6.51
ZB4BA58	6.12
ZB4BA68	6.54



Illuminated Booted Flush Pushbutton Head

REF NO	PRICE
ZB4BW513	7.85
ZB4BW533	7.50
ZB4BW543	8.07
ZB4BW553	8.07
ZB4BW563	7.54



Illuminated Projecting LED Pushbutton Head

REF NO	PRICE
ZB4BW113	7.72
ZB4BW133	7.73
ZB4BW143	7.52
ZB4BW153	7.72
ZB4BW163	7.04



Double Illuminated LED Pushbutton IP66

REF NO	Description	PRICE
ZB4BW7A3741	2 Flush Buttons IP66	12.69
ZB4BW7L3741	Green Flush Button Red Projecting IP66	12.69



Illuminated Selector Switches

REF NO	Description	PRICE
ZB4BK1233	Green Illuminated 2 Position Selector Switch - Stay Put	18.88
ZB4BK1243	Red Illuminated 2 Position Selector Switch - Stay Put	18.88
ZB4BK1333	Green Illuminated 3 Position Selector Switch - Stay Put	18.88
ZB4BK1343	Red Illuminated 3 Position Selector Switch - Stay Put	18.88



Illuminated Emergency Stop

REF NO	Description	PRICE
ZB4BW643	Illuminated Pull to Release Emergency Stop - Head 40mm	20.02
ZBY9121	Plain emergency stop legend - 60mm	1.81
ZBY8101	Plain emergency stop legend - 90mm	2.47
ZBY9320	Legend with 'Emergency Stop' - 60mm	2.17
ZBY8330	Legend with 'Emergency Stop' - 90mm	2.47



Legends for Pilot Lamps & Illuminated Pushbuttons

Sheets of 66, circular, peel off, transparent, self-adhesive labels for use with ZB5-AVO*3E and ZB5-AA*8
Supplied in packs of 10 sheets - minimum order quantity

REF NO	Description	PRICE
ZBY1101	Blank	22.60
ZBY1146	O	20.60
ZBY1147	I	21.70
ZBY1148	II	20.20
ZBY1149	III	22.60
ZBY1304	STOP	21.40
ZBY1912	↑	22.40
ZBY1316	HAND	22.60
ZBY1312	OFF	22.60
ZBY1311	ON	22.60
ZBY1303	START	21.40

LED Light Block / Contact Assembly

REF NO	PRICE
ZB4W0B11	12.60
ZB4W0B31	12.60
ZB4W0B41	12.35
ZB4W0B42	12.59
ZB4W0B51	12.72
ZB4W0B61	12.60
ZB4W0G11	15.02
ZB4W0G31	15.02
ZB4W0G41	15.02
ZB4W0G42	15.02
ZB4W0G51	15.11
ZB4W0G61	15.02
ZB4W0M11	20.19
ZB4W0M31	20.19
ZB4W0M41	20.19
ZB4W0M42	20.19
ZB4W0M51	20.19
ZB4W0M61	20.29

Up to 24V AC/DC

110-120V AC

230-240V AC

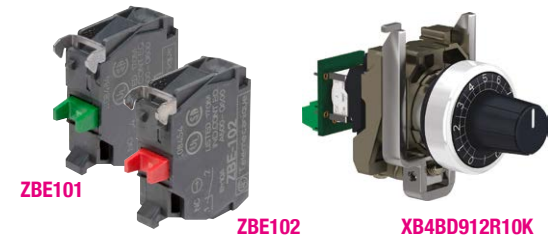


Part numbers ending with 1 have a N/O Contact
Part numbers ending with 2 have a N/C Contact

For other contact configurations, use the additional contacts below.

Additional Contact Block

REF NO	Description	PRICE
ZBE101	Single Normally Open Contact Block	3.81
ZBE102	Single Normally Closed Contact Block	3.81



Potentiometers - Complete Unit IP66

REF NO	Description	PRICE
XB4BD912R10K	Impedance 1KΩ	58.70
XB4BD912R4K7	Impedance 4.7KΩ	58.70
XB4BD912R10K	Impedance 10KΩ	58.70
XB4BD912R47K	Impedance 47KΩ	58.70
XB4BD912R100K	Impedance 100KΩ	58.70
XB4BD912R470K	Impedance 470KΩ	58.70

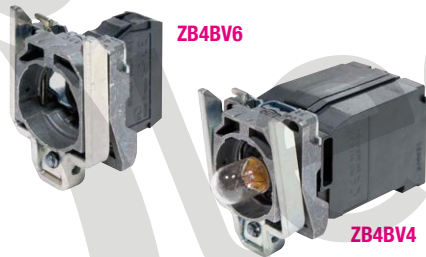
Plain Pilot Lamp Lens for BA9s Body

REF NO		PRICE
ZB4BV01	○	3.72
ZB4BV03	●	3.56
ZB4BV04	●	3.56
ZB4BV05	●	3.72
ZB4BV06	●	3.66
ZB4BV07	⊗ Clear	3.66



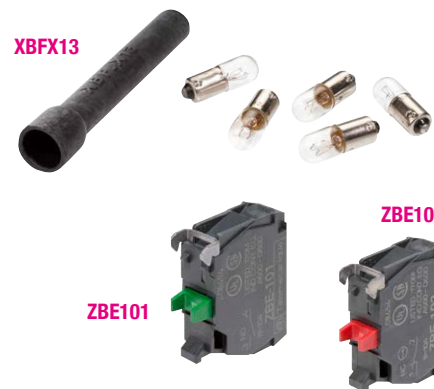
Pilot Lamp Body

REF NO	Description	PRICE
ZB4BV6	Pilot Lamp Body for direct supply up to 250V BA9s fitting - Bulb not included	5.32
ZB4BV3	Pilot Lamp Body via integral transformer 110 - 120VAC to 6V - BA9s bulb included	26.43
ZB4BV4	Pilot Lamp Body via integral transformer 230VAC to 6V - BA9s bulb included	25.90



Incandescent Bulbs

REF NO	Description	PRICE
DL1CB006	6V 1.2W BA9s Incandescent Bulb	1.73
DL1CE024	24V 2W BA9s Incandescent Bulb	2.79
DL1CE130	130V 2.4W BA9s Incandescent Bulb	7.49
XBFX13	Bulb Extractor Tool	3.24



Illuminated Flush Pushbutton Head for BA9s Body

REF NO		PRICE
ZB4BW31	○	5.35
ZB4BW33	●	5.60
ZB4BW34	●	5.35
ZB4BW35	●	5.35
ZB4BW36	●	5.35
ZB4BW37	⊗ Clear	5.50



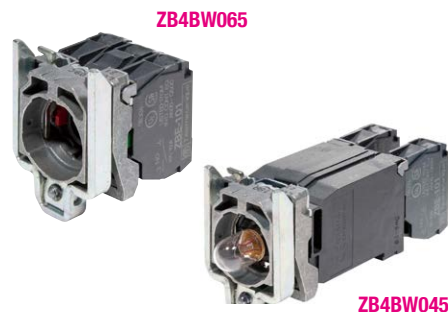
Illuminated Projecting Pushbutton Head for BA9s Body

REF NO		PRICE
ZB4BW11	○	6.12
ZB4BW13	●	6.72
ZB4BW14	●	6.72
ZB4BW15	●	6.12
ZB4BW16	●	6.12
ZB4BW17	⊗ Clear	6.72



Light Block / Contact Assembly with 1 x N/O & 1 x N/C Contact

REF NO	Description	PRICE
ZB4BW065	Light Block / Contact Body for direct supply up to 250V - BA9s fitting	12.92
ZB4BW035	Light Block / Contact Body via integral transformer 110 - 120VAC to 6V - BA9s bulb included	33.30
ZB4BW045	Light Block / Contact Body via integral transformer 110 - 120VAC to 6V - BA9s bulb included	35.24



Additional Contact Block

REF NO	Description	PRICE
ZBE101	Single Normally Open Contact Block	3.81
ZBE102	Single Normally Closed Contact Block	3.81



Emergency Stop Actuators IP66

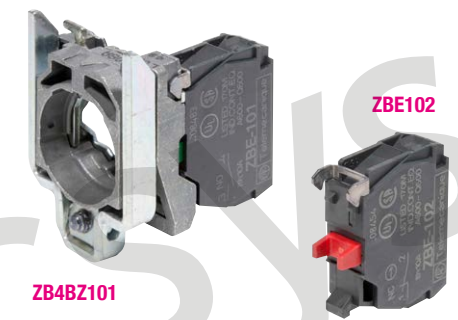
REF NO	Description	PRICE
ZB4BT84	Pull to Release Emergency Stop - Head 40mm Trigger Action & Mechanical Latching	19.33
ZB4BS834	Twist to Release Emergency Stop - Head 30mm Trigger Action & Mechanical Latching	18.55
ZB4BS844	Twist to Release Emergency Stop - Head 40mm Trigger Action & Mechanical Latching	18.29
ZB4BS944	Key to Release Emergency Stop - Head 40mm Trigger Action & Mechanical Latching	27.47
ZBY9121	Plain Emergency Stop Legend - 60mm	1.81
ZBY8101	Plain Emergency Stop Legend - 90mm	2.47
ZBY9320	Legend with 'Emergency Stop' - 60mm	2.17
ZBY8330	Legend with 'Emergency Stop' - 90mm	2.47
ZBZ58	Yellow Boot to allow 40mm Trigger Action Emergency Stop to conform to IP69K	4.80
ZBZ3605	Safety Padlocking Kit for Trigger Action Emergency Stop	40.68
ZBZ1605	Metal Mushroom Head Yellow Guard	29.19

Only Trigger Action and latching 'Red Mushroom Head' buttons can truly be called EMERGENCY STOP devices as they conform with the machinery directive legislation and EN418



Fixing Collars & Contact Blocks - Screw

REF NO	Description	PRICE
ZB4BZ101	Fixing Collar with 1 x N/O Block	5.59
ZB4BZ102	Fixing Collar with 1 x N/C Block	8.59
ZB4BZ103	Fixing Collar with 2 x N/O Block	9.31
ZB4BZ104	Fixing Collar with 2 x N/C Block	9.31
ZB4BZ105	Fixing Collar with 1 x N/O and 1 x N/C Block	9.31
ZB4BZ141	Fixing Collar with 1 x N/O and 2 x N/C Block	13.12
ZB4BZ009	Fixing Collar - No Contacts	2.00
ZBE101	Single N/O contact block	3.81
ZBE102	Single N/C contact block	3.81



Fixing Collars & Contact Blocks - Spring Clamp

The Spring Clamp terminal offers significant advantages over the screw version as there are no screws to re-tighten and a screwdriver is not required. Offers a very effective vibration resistance and will accept cable from 0.2mm² to 1.5mm² with or without ferrules

REF NO	Description	PRICE
ZB4BZ1015	Fixing Collar with 1 x N/O Block	6.08
ZB4BZ1025	Fixing Collar with 1 x N/C Block	5.97
ZB4BZ1035	Fixing Collar with 2 x N/O Block	9.96
ZB4BZ1045	Fixing Collar with 2 x N/C Block	9.96
ZB4BZ1055	Fixing Collar with 1 x N/O and 1 x N/C Block	9.98
ZB4BZ009	Fixing Collar - No Contacts	2.00
ZBE1015	Single N/O contact block	4.01
ZBE1025	Single N/C contact block	3.93



The Schneider Electric XB5 range of 22.5mm control units comprises pilot lights, pushbuttons, selector switches, joysticks, emergency stops and key operated actuators. The units are a minimum of IP66 conforming to IEC60529 and NEMA 4X and 13.

Flush Pushbutton Actuators IP66

REF NO	PRICE
ZB5AA1	4.20
ZB5AA2	4.13
ZB5AA3	4.13
ZB5AA4	4.13
ZB5AA5	4.20
ZB5AA6	4.24
ZB5AA331	5.76
ZB5AA432	5.76
ZB5AA334	5.76
ZB5AA335	5.76
ZB5AA333	5.87
ZB5AA434	5.76



Extended Pushbutton Actuators IP66

REF NO	PRICE
ZB5AL1	4.08
ZB5AL2	4.80
ZB5AL3	4.80
ZB5AL4	4.81
ZB5AL5	4.36
ZB5AL6	4.40
ZB5AL432	6.32



Flush Pushbutton Actuators with Clear Boot

REF NO	PRICE
ZB5AP1	5.68
ZB5AP2	6.46
ZB5AP3	6.46
ZB5AP4	6.01
ZB5AP5	6.45
ZB5AP6	6.45



Double Pushbutton IP66

REF NO	Description	PRICE
ZB5AA7341	2 Flush Buttons IP66	10.33
ZB5AL7341	Green Flush Button Red Projecting IP66	11.13



Momentary Mushroom Head 40mm - IP66

REF NO	PRICE
ZB5AC2	9.31
ZB5AC3	9.36
ZB5AC4	9.36
ZB5AC5	9.38
ZB5AC6	9.36



Momentary Mushroom Head 60mm - IP66

REF NO	PRICE
ZB5AR2	9.41
ZB5AR3	9.66
ZB5AR4	10.18
ZB5AR5	9.08
ZB5AR6	9.08



Standard Selector Switches IP66

REF NO	Description	PRICE
ZB5AD2	2 Position Selector Switch - Stay Put	7.90
ZB5AD4	2 Position Selector Switch - Spring Return	8.33
ZB5AD3	3 Position Selector Switch - Stay Put	7.95
ZB5AD5	3 Position Selector Switch - Spring Return	7.97
ZB5AD7	3 Position Selector Switch - Spring Return Left to Centre, Stay Put to the Right	8.33
ZB5AD8	3 Position Selector Switch - Spring Return Right to Centre, Stay Put to the Left	8.33

ZB5AD2



ZB5AJ2



Long Handle Selector Switches IP66

REF NO	Description	PRICE
ZB5AJ2	2 Position Selector Switch - Stay Put	8.28
ZB5AJ4	2 Position Selector Switch - Spring Return	7.93
ZB5AJ3	3 Position Selector Switch - Stay Put	8.70
ZB5AJ5	3 Position Selector Switch - Spring Return	8.70
ZB5AJ7	3 Position Selector Switch - Spring Return Left to Centre, Stay Put to the Right	7.39
ZB5AJ8	3 Position Selector Switch - Spring Return Right to Centre, Stay Put to the Left	7.53

Key Switches - Key No 455 - IP66

REF NO	Description	PRICE
ZB5AG2	2 Position Key Switch - Stay put	21.61
ZB5AG4	2 Position Key Switch - Stay put Key removable in both positions	21.81
ZB5AG6	2 Position Key Switch - Spring Return	22.67
ZB5AG0	3 Position Key Switch - Stay put	22.58
ZB5AG3	3 Position Key Switch - Stay put Key removable in centre only	21.81
ZB5AG7	3 Position Key Switch - Spring Return	22.58
ZB5AG8	3 Position Key Switch - Spring Return Right to Centre, Stay Put to the Left	22.21



Fixing Collars & Contact Blocks - Screw

REF NO	Description	PRICE
ZB5AZ101	Fixing Collar with 1 x N/O Block	4.99
ZB5AZ102	Fixing Collar with 1 x N/C Block	4.99
ZB5AZ103	Fixing Collar with 2 x N/O Block	8.56
ZB5AZ104	Fixing Collar with 2 x N/C Block	8.37
ZB5AZ105	Fixing Collar with 1 x N/O and 1 x N/C Block	8.37
ZB5AZ141	Fixing Collar with 1 x N/O and 2 x N/C Block	11.85
ZB5AZ009	Fixing Collar - No Contacts	1.41
ZBE101	Single N/O contact block	3.81
ZBE102	Single N/C contact block	3.81

Emergency Stop Actuators IP66

REF NO	Description	PRICE
ZB5AT84	Pull to Release Emergency Stop - Head 40mm Trigger Action & Mechanical Latching	17.37
ZB5AS844	Twist to Release Emergency Stop - Head 40mm Trigger Action & Mechanical Latching	16.70
ZB5AS944	Key to Release Emergency Stop - Head 40mm Trigger Action & Mechanical Latching	25.57

For standard legend plates, please see Page 265

The Harmony wireless and battery-less pushbutton range enables remote control of a relay (receiver) via a pushbutton (transmitter). The pushbutton is fitted with a 'dynamo' type generator which converts the mechanical energy into electrical energy when pushed.

The approximate distance between the transmitter and the receiver is 100 Metres if there are no obstacles or 25 Metres if the receiver is housed in a metal enclosure. The relay antenna, if selected, will boost the distance to 300 Metres.

This technology cannot be used for hoist applications or emergency stops.

Wireless & Batteryless Pushbuttons

REF NO	Description	PRICE
ZB5RFA02	Wireless & Battery-less Pushbutton with 10 Coloured Caps (One to be selected) Programmable receiver equipped with 2 relay outputs & LEDs indicating power, outputs and signal strength. 24-240V AC/DC Relay Output function set to monostable but are programmable to bistable and Start-Stop	178.58
ZB5RFB01	Wireless & Battery-less Pushbutton with Black Cap. Non-programmable receiver with 1 relay monostable output. 24V DC	67.88



Wireless & Batteryless Pushbuttons Accessories

REF NO	Description	PRICE
ZBRA1	Relay Antenna 24 - 240V AC/DC supplied with 5 Metres cable and LEDs to confirm Power, reception and transmission. Boosts signal distance to up to 300 Metres	60.24
ZBRM01	Handy box for mobile pushbutton. Can only be used for wireless pushbuttons. Supplied with a magnet.	30.00



Plain Pilot Lamp LED Lens

REF NO	PRICE
ZB5AV013	3.42
ZB5AV033	3.42
ZB5AV043	3.29
ZB5AV053	3.42
ZB5AV063	3.43



Pilot Lamp LED Lens for use with Legend

REF NO	PRICE
ZB5AV013E	3.40
ZB5AV033E	4.18
ZB5AV043E	4.18
ZB5AV053E	4.18
ZB5AV063E	4.18



Integral LED Pilot Lamp Body

REF NO	PRICE
ZB5AVB1	8.12
ZB5AVB3	7.97
ZB5AVB4	7.97
ZB5AVB5	8.12
ZB5AVB6	8.12
ZB5AVG1	10.61
ZB5AVG3	10.61
ZB5AVG4	10.61
ZB5AVG5	10.61
ZB5AVG6	10.66
ZB5AVM1	15.72
ZB5AVM3	15.57
ZB5AVM4	15.57
ZB5AVM5	15.57
ZB5AVM6	15.72

Up to 24V AC/DC

110 - 120V AC

230-240V AC



Integral LED Pilot Lamp Body with Lamp Test

REF NO	PRICE
ZBVB1	6.52
ZBVB3	6.53
ZBVB4	6.50
ZBVB5	6.50
ZBVB6	6.50

Up to 24V AC/DC



Mounting Collar for ZBV-B* when used with ZB4 lamps

ZB4BZ009	2.00
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For 110VAC versions of the above replace the B with G
For 230VAC versions of the above replace the B with M



Illuminated Flush LED Pushbutton Head

REF NO	PRICE
ZB5AW313	5.68
ZB5AW333	5.49
ZB5AW343	5.68
ZB5AW353	5.68
ZB5AW363	5.94



Flush Pushbutton Head with Illuminated Ring

REF NO	PRICE
ZB5AW913	6.69
ZB5AW933	7.02
ZB5AW943	6.69
ZB5AW953	6.43
ZB5AW963	6.21



Illuminated Flush LED Pushbutton Head for use with Legend

REF NO	PRICE
ZB5AA18	5.78
ZB5AA38	5.80
ZB5AA48	5.63
ZB5AA58	5.80
ZB5AA68	5.80



Illuminated Booted Flush Pushbutton Head

REF NO	PRICE
ZB5AW513	6.54
ZB5AW533	7.72
ZB5AW543	7.03
ZB5AW553	7.65
ZB5AW563	7.69



Illuminated Projecting LED Pushbutton Head

REF NO	PRICE
ZB5AW113	5.91
ZB5AW133	7.04
ZB5AW143	7.10
ZB5AW153	6.01
ZB5AW163	5.80



Double Illuminated LED Pushbutton IP66

REF NO	Description	PRICE
ZB5AW7A3741	2 Flush Buttons	11.98
ZB5AW7L3741	Green Flush Button Red Projecting	11.98



Illuminated Selector Switches

REF NO	Description	PRICE
ZB5AK1233	Green Illuminated 2 Position Selector Switch - Stay Put	15.78
ZB5AK1243	Red Illuminated 2 Position Selector Switch - Stay Put	15.78
ZB5AK1333	Green Illuminated 3 Position Selector Switch - Stay Put	16.09
ZB5AK1343	Red Illuminated 3 Position Selector Switch - Stay Put	15.11

ZB5AK1333



ZB5AK1333

Illuminated Emergency Stop

REF NO	Description	PRICE
ZB5AW743	Illuminated Twist to Release Emergency Stop Head 40mm	16.86
ZBY9121	Plain emergency stop legend - 60mm	1.81
ZBY8101	Plain emergency stop legend - 90mm	2.47
ZBY9320	Legend with 'Emergency Stop' 60mm	2.17
ZBY8330	Legend with 'Emergency Stop' 90mm	2.47

Legends for Pilot Lamps & Illuminated Pushbuttons

Sheets of 66, circular, peel off, transparent, self-adhesive labels for use with ZB5-AVO*3E and ZB5-AA*8
Supplied in packs of 10 sheets - minimum order quantity

REF NO	Description	PRICE
ZBY1101	Blank	22.60
ZBY1146	O	20.60
ZBY1147	I	21.70
ZBY1148	II	20.20
ZBY1149	III	22.60
ZBY1304	STOP	21.40
ZBY1912	↑	22.40
ZBY1316	HAND	22.60
ZBY1312	OFF	22.60
ZBY1311	ON	22.60
ZBY1303	START	21.40



ZBY1312

LED Light Block / Contact Assembly

REF NO	PRICE
ZB5AW0B11	11.38
ZB5AW0B31	11.47
ZB5AW0B41	11.38
ZB5AW0B42	11.38
ZB5AW0B51	11.38
ZB5AW0B61	11.38
ZB5AW0G11	13.69
ZB5AW0G31	14.06
ZB5AW0G41	13.69
ZB5AW0G42	13.84
ZB5AW0G51	13.76
ZB5AW0G61	13.10
ZB5AW0M11	17.71
ZB5AW0M31	19.18
ZB5AW0M41	19.18
ZB5AW0M42	18.81
ZB5AW0M51	17.71
ZB5AW0M61	17.70

Up to 24V AC/DC

48 - 120V AC

230 - 240V AC

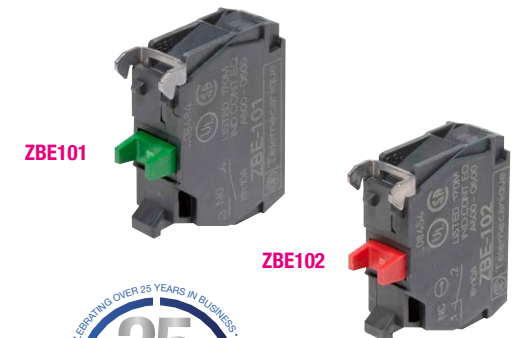


Part numbers ending with 1 have a N/O Contact
Part numbers ending with 2 have a N/C Contact

For other contact configurations, use the additional contacts below.

Additional Contact Block

REF NO	Description	PRICE
ZBE101	Single Normally Open Contact Block	3.81
ZBE102	Single Normally Closed Contact Block	3.81



ZBE101

ZBE102



Plain Pilot Lamp Lens for BA9s Body		
REF NO		PRICE
ZB5AV01		3.23
ZB5AV03		3.23
ZB5AV04		3.23
ZB5AV05		3.23
ZB5AV06		3.22
ZB5AV07		2.94



Pilot Lamp Body		
REF NO	Description	PRICE
ZB5AV6	Pilot Lamp Body for direct supply up to 250V BA9s fitting - Bulb not included	5.23
ZB5AV3	Pilot Lamp Body via integral transformer 110 - 120VAC to 6V - BA9s bulb included	24.49
ZB5AV4	Pilot Lamp Body via integral transformer 230VAC to 6V - BA9s bulb included	26.36



Incandescent Bulbs		
REF NO	Description	PRICE
DL1CB006	6V 1.2W BA9s Incandescent Bulb	1.73
DL1CE024	24V 2W BA9s Incandescent Bulb	2.79
DL1CE130	130V 2.4W BA9s Incandescent Bulb	7.49
XBFX13	Bulb Extractor Tool	3.24



Tightening Tool		
REF NO	Description	PRICE
ZB5AZ905	Tightening Tool for Locking Ring	4.25



Illuminated Flush Pushbutton Head for BA9s Body		
REF NO		PRICE
ZB5AW31		5.11
ZB5AW33		4.96
ZB5AW34		5.11
ZB5AW35		5.09
ZB5AW36		5.09
ZB5AW37		5.09



Light Block / Contact Assembly with 1 x N/O & 1 x N/C Contact		
REF NO	Description	PRICE
ZB5AW065	Light Block / Contact Body for direct supply up to 250V - BA9s fitting	12.20
ZB5AW035	Light Block / Contact Body via integral transformer 110 - 120VAC to 6V - BA9s bulb included	30.53
ZB5AW045	Light Block / Contact Body via integral transformer 230VAC to 6V - BA9s bulb included	29.63
ZBE101	Single Normally Open Contact Block	3.81
ZBE102	Single Normally Closed Contact Block	3.81



Empty Control Station Enclosures - Plastic		
REF NO	Description	PRICE
XALD01	Empty single hole enclosure	11.37
XALD02	Empty 2 hole enclosure	13.19
XALD03	Empty 3 hole enclosure	16.98
XALD04	Empty 4 hole enclosure	27.50
XALD05	Empty 5 hole enclosure	32.37



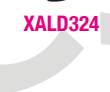
Empty Control Station Enclosures - Plastic		
REF NO	Description	PRICE
XALK01	Empty single hole enclosure - Yellow	11.21
XALK02	Empty 2 hole enclosure - Yellow	12.78



Enclosed Emergency Stop Switches		
REF NO	Description	PRICE
XALK178F	Enclosed Twist to Release Emergency Stop 40mm with 2 x N/C contacts Trigger Action & Mechanical Latching EN418	35.09
XALK178	Enclosed Twist to Release Emergency Stop 40mm with 1 x N/C contacts	30.07
XALK188F	Enclosed Key Release Emergency Stop 40mm with 2 x N/C contacts Trigger Action & Mechanical Latching EN418	52.42
XALK188	Enclosed Key Release Emergency Stop 40mm with 1 x N/C contacts	36.88



Control Stations - Plastic		
Some of the popular, complete control stations listed below		
REF NO	Description	PRICE
XALD102	Single Green pushbutton with 'I' marking	21.27
XALD112	Single Red pushbutton with 'O' marking	22.27
XALD213	Two way control station with Green 'I' and Red 'O' marking	32.51
XALD215	Two way control station with Green 'Start' and Red 'Stop' marking	32.51
XALD222	Two way control station with white 'I' and black '↓' marking	32.73
XALD324	Three way control station with White button 'I', Black button '↓' marking and Red button 'O' markings	46.39



Contact Blocks for XAL-D or XAL-K		
REF NO	Description	PRICE
ZENL1111	Normally Open base mount contact block for use with XAL-D or XAL-K enclosures	6.06
ZENL1121	Normally Closed base mount contact block for use with XAL-D or XAL-K enclosures	6.06
ZALVB4	Red LED light block 24V AC Base mounting	7.70
ZALVM4	Red LED light block 230V AC Base mounting	16.17



XAC-A pendant control stations are designed for mechanical handling of hoists, travelling cranes and similar applications. They comply fully with the safety requirements of IEC standards and are simple, intuitive and comfortable for the operator to use. The IP65 polypropylene are available in 2 way to 12 way variants and can accommodate a variety of actuators.

Empty XAC Enclosures

REF NO	Description	PRICE
XACA02	2 way empty enclosure	61.72
XACA03	3 way empty enclosure	68.02
XACA04	4 way empty enclosure	71.08
XACA05	5 way empty enclosure	76.77
XACA06	6 way empty enclosure	80.49
XACA08	8 way empty enclosure	94.91
XACA12	12 way empty enclosure	118.00

22.5mm Booted Pushbuttons

REF NO	Description	PRICE
XACA9411	White booted pushbutton	3.31
XACA9412	Black booted pushbutton	3.35
XACA9413	Green booted pushbutton	3.31
XACA9414	Red booted pushbutton	3.35
XACA9415	Yellow booted pushbutton	3.31
XACA9416	Blue booted pushbutton	3.35



22.5mm Emergency Stops

REF NO	Description	PRICE
ZA2BS834	Trigger action latching mushroom head Turn to release - 30mm Head	20.96
ZA2BS844	Trigger action latching mushroom head Turn to release - 40mm Head	22.76
ZA2BS944	Trigger action latching mushroom head Key to release - 40mm Head	37.55



22.5mm Switches

REF NO	Description	PRICE
ZA2BD2	2 Position Selector Switch - Stay Put	9.23
ZA2BD3	3 Position Selector Switch - Stay Put	9.23
ZA2BG4	2 Position Key Switch - Stay Put	26.71
ZA2BG3	3 Position Key Switch - Stay Put	27.26
ZB2SZ3	Blanking plug with seal and locknut	7.77
XACA009	Mechanical interlock for two pushbuttons	3.24



Protective Guards for Base Mounted Units

REF NO	Description	PRICE
XACA982	To protect selector switch or mushroom head pushbutton	8.30
XACA983	To protect key switch or key release emergency stop	9.23



22.5mm Pilot Lights

REF NO	Description	PRICE
ZA2BV01	White pilot light head	3.91
ZA2BV03	Green pilot light head	3.91
ZA2BV04	Red pilot light head	3.91
ZA2BV05	Yellow pilot light head	3.91
ZA2BV06	Blue pilot light head	3.91
ZA2BV07	Clear pilot light head	3.76
ZB2BV006	Pilot light body - Direct supply	6.49
ZB2BV007	Pilot light body - Through resistor	20.44
DL1CB006	6V 1.2W BA9s Incandescent bulb	1.73
DL1CE024	24V 2W BA9s Incandescent bulb	2.79
DL1CE130	130V 2.4W BA9s Incandescent bulb	7.49



Contact Blocks for XAC

REF NO	Description	PRICE
ZB2BE101	Single speed N/O contact block	5.05
ZB2BE102	Single speed N/C contact block	4.90
XENG1491	Single speed N/C + N/O + N/C simultaneous	19.45
XENG1191	Single speed N/C + N/O + N/C staggered	20.79
For Base Mount Operators Only		
XACS101	Contact block N/O	15.01
XACS102	Contact block N/C	15.01
XACS103	2 x N/O contact block	19.13
XACS104	2 x N/C contact block	19.13
XACS105	1 x N/O 1 x N/C contact block	19.51



XAC Legend Plates

REF NO	Description	PRICE
ZB2BY****	Legends as detailed below	1.04

ZB2BY4901	ZB2BY2904
ZB2BY4903	ZB2BY2906
ZB2BY4907	ZB2BY2910
ZB2BY4909	ZB2BY2912
ZB2BY4913	ZB2BY2916
ZB2BY4915	ZB2BY2918
ZB2BY4930	ZB2BY2931
ZB2BY2303	ZB2BY2304
ZB2BY4101	



The RMQ-Titan range comprises pilot lights, pushbuttons, selector switches, joysticks, emergency stops and key operated actuators.

All units are IP66 with some being IP67, IP69K.

Flush Pushbutton Actuators IP67, IP69K

REF NO		PRICE
M22-D-S		4.79
M22-D-W		4.79
M22-D-R		4.79
M22-D-G		4.79
M22-D-Y		4.79
M22-D-B		4.79
M22-D-R-X0		5.57
M22-D-G-X1		5.57
M22-D-S-X0		5.74

Extended Pushbutton Actuators IP67, IP69K

REF NO		PRICE
M22-DH-S		6.17
M22-DH-W		6.17
M22-DH-R		6.17
M22-DH-G		6.17
M22-DH-Y		6.17
M22-DH-B		6.17

Selector & Key Switch Operators IP66

REF NO	Description	PRICE
M22-W	Rotary 2 Position Selector - Spring Return	9.98
M22-WR	Rotary 2 Position Selector - Stay Put	9.98
M22-W3	Rotary 3 Position Selector - Spring Return	9.98
M22-WR3	Rotary 3 Position Selector - Stay Put	9.98
M22-WK	Thumb-grip 2 Position Selector - Spring Return	9.41
M22-WRK	Thumb-grip 2 Position Selector - Stay Put	9.13
M22-WK3	Thumb-grip 3 Position Selector - Spring Return	9.41
M22-WRK3	Thumb-grip 3 Position Selector - Stay Put	9.13
M22-WS	2 Position Key Switch - Spring Return	30.57
M22-WS3	3 Position Key Switch - Spring Return	30.57
M22-WRS	2 Position Key switch - Stay Put	29.68
M22-WRS3	3 Position Key switch - Stay Put	29.68



Four Position Joysticks IP66

REF NO	Description	PRICE
M22-WJ4	Gated spring return in all positions	39.81
M22-WRJ4	Gated stay-put in all positions	39.81

M22-WJ4



M22-D4-S-X7

Four Way Pushbutton IP66

REF NO	Description	PRICE
M22-D4-S-X7	Spring return in all positions - with arrows	34.63
M22-D4-S	Spring return in all positions - no arrows	34.63

Mushroom Actuators IP67, IP69K

REF NO		PRICE
M22-DP-S		9.33
M22-DP-R		9.33
M22-DP-G		9.33
M22-DP-Y		9.33
M22-DP-R-X0		9.33



M22-PVT

M22-PVS

M22-PVL

Emergency Stop Actuators IP66, IP69K

REF NO	Description	PRICE
M22-PV	Pull to release Emergency Stop head	22.64
M22-PVT	Twist to release Emergency Stop head	22.64
M22-PVS	Key to release Emergency Stop head	36.09
M22-PVL	Illuminated Pull to release Emergency Stop	26.16
M22-PVLT	Illuminated Twist to release Emergency Stop	26.16

Fixing Adaptors & Contact Blocks

REF NO	Description	PRICE
M22-A	Fixing adaptor for 3 contacts and using middle position for LED elements	1.68
M22-A4	Fixing adaptor for 4 contact blocks Only available for 4 position Joysticks	3.02
M22-K10	N/O contact block	3.98
M22-K01	N/C contact block	3.98
M22-KC10	N/O block for base fixing	4.06
M22-KC01	N/C block for base fixing	4.06



M22-A

M22-K01

M22-KC10

Legend Plates

REF NO	Description	PRICE
M22S-ST-GB0	STOP	1.37
M22S-ST-GB1	START	1.37
M22S-ST-GB5	OFF	1.37
M22S-ST-GB6	ON	1.37
M22S-ST-GB7	RUN	1.37
M22S-ST-GB8	FAULT	1.37
M22S-ST-GB10	OFF-ON	1.37
M22S-ST-GB11	MAN-AUTO	1.37
M22S-ST-GB12	MAN-O-AUTO	1.37
M22S-ST-X	Legend holder without label	0.46
M22-XST	Aluminium insert plate for holder	0.46



Potentiometers IP66

REF NO	Description	PRICE
M22-R1K	Impedance 1Ω	47.96
M22-R4K7	Impedance 4.7Ω	47.96
M22-R10K	Impedance 10Ω	47.96
M22-R47K	Impedance 47Ω	47.96
M22-R100K	Impedance 100Ω	47.96
M22-R470K	Impedance 470Ω	47.96



M22-IY1

M22-I3

Surface Mounting Enclosures IP67, IP69K

REF NO	Description	PRICE
M22-IY1	Single gang enclosure; Black base, Yellow top	13.13
M22-I1	Single gang enclosure; Black base, Grey top	11.98
M22-I2	2 gang enclosure; Black base, Grey top	15.11
M22-I3	3 gang enclosure; Black base, Grey top	16.98
M22-I4	4 gang enclosure; Black base, Grey top	20.30
M22-I6	6 gang enclosure; Black base, Grey top	29.84
M22-I1M-SAL	Single gang metal enclosure Grey base, Grey top	27.12
M22-I1MGE-SAL	Single gang metal enclosure Grey base, Yellow top	39.51

Accessories for 22.5mm Actuators

REF NO	Description	PRICE
M22-B	IP67 Blanking plug	2.20
M22-T-D	Actuator diaphragm for single pushbutton	2.95
M22-T-DD	Actuator diaphragm for double pushbutton	2.95
M22-XWS	Actuator diaphragm for key switches	7.01
M22-IVS	Top-Hat Rail adaptor for use with front fixing components	4.48
M22-MS	Tightening tool for locking ring	4.10
M22-ES-MS1	Spare MS1 key for key release emergency stops and key switches	7.58



M22-XWS

M22-B

M22-T-D

M22-T-DD

M22-IVS

Illuminated Flush Pushbutton Actuators IP67, IP69K

REF NO	PRICE
M22-DL-W	7.39
M22-DL-R	7.39
M22-DL-G	7.39
M22-DL-Y	7.39
M22-DL-B	7.39



Illuminated Extended Pushbutton Actuators IP67, IP69K

REF NO	PRICE
M22-DLH-W	8.58
M22-DLH-R	8.58
M22-DLH-G	8.58
M22-DLH-Y	8.58
M22-DLH-B	8.58



Illuminated Double Pushbutton Actuators IP67, IP69K

REF NO	PRICE
M22-DDL-GR-X1/X0	12.97
M22-DDL-GR-GB1/GB0	13.36
M22-DDL-WS-X1/X0	12.97



Indicator Lights - Flush - IP67, IP69K

REF NO	PRICE
M22-L-W	3.79
M22-L-R	3.79
M22-L-G	3.79
M22-L-Y	3.79
M22-L-B	3.79



Indicator Lights - Extended - IP67, IP69K

REF NO	PRICE
M22-LH-W	5.71
M22-LH-R	5.71
M22-LH-G	5.71
M22-LH-Y	5.71
M22-LH-B	5.71



LED Elements Screw Terminals Front Fixing

REF NO	PRICE
M22-LED-W	7.00
M22-LED-R	7.00
M22-LED-G	7.00
M22-LED-B	7.00
M22-LED230-W	10.40
M22-LED230-R	10.40
M22-LED230-G	10.40
M22-LED230-B	10.40



LED Elements Screw Terminals - Base Fixing

REF NO	PRICE
M22-LEDC-W	7.20
M22-LEDC-R	7.20
M22-LEDC-G	7.20
M22-LEDC-B	7.20
M22-LEDC230-W	10.72
M22-LEDC230-R	10.72
M22-LEDC230-G	10.72
M22-LEDC230-B	10.72



Fixing Adaptors & Contact Blocks

REF NO	Description	PRICE
M22-A	Fixing adaptor for 3 contacts and using middle position for LED elements	1.68
M22-A4	Fixing adaptor for joysticks and 4 way pushbutton, to suit 4 contact blocks	3.02
M22-K10	N/O contact block	3.98
M22-K01	N/C contact block	3.98
M22-KC10	N/O block for base fixing	4.06
M22-KC01	N/C block for base fixing	4.06



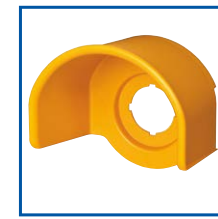
Enclosed Emergency Stop Actuators IP66, IP69K

REF NO	Description	PRICE
M22-PV/KC11/IY	Enclosed emergency stop button 1 x N/O & 1 x N/C contact	44.52
M22-PVS/KC11/IY	Enclosed emergency stop button Key Release 1 x N/O & 1 x N/C contact	57.29
M22-PVT/KC11/IY	Enclosed emergency stop button Twist to Release 1 x N/O & 1 x N/C contact	44.52



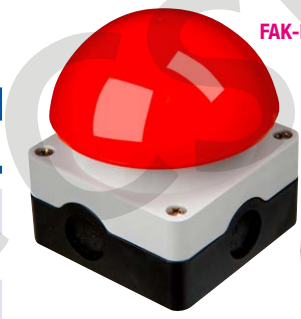
Accessories

REF NO	Description	PRICE
M22-XYK1	50mm x 50mm Emergency Stop label in four languages	4.95
M22-XBK1	60mm Diameter Emergency Stop label in four languages	4.95
M22-XAK1	90mm Diameter Emergency Stop label in four languages	4.95
M22-XAK	90mm Diameter label - Blank	4.95
M22-XGPV	Guard ring for Emergency Stop buttons	10.66
M22-PL-PV	Sealable shrouds for Emergency Stop buttons	7.58



Foot & Palm Switches - Emergency Stop IP67/IP69K

REF NO	Description	PRICE
FAK-RV/KC11/IY	Foot & Palm Switch Yellow Base, Red Top 1 x N/O; 1 x N/C; Pull to Release	81.53



Foot & Palm Switches - Spring return IP67 / IP69K

REF NO	Description	PRICE
FAK-S/KC11/I	Foot & Palm Switch - Grey Base, Black Top 1 x N/O, 1 x N/C	59.20
FAK-R/KC11/I	Foot & Palm Switch - Grey Base, Red Top 1 x N/O, 1 x N/C	59.20

Need terminals for your terminal box?

See pages 348-379 for our range

Lovato Platinum control units have been tested to guarantee a degree of protection as per IEC/EN IP66, IP67, IP69K and UL type 4X, making them perfect for use in the most extreme ambient conditions. Operating temperature range between -25°C and +70°C.

Flush Momentary Pushbutton Actuators IP67, IP69K

REF NO	PRICE
LPCB102	3.83
LPCB103	3.83
LPCB104	3.83
LPCB105	3.83
LPCB106	3.83
LPCB108	3.83



For maintained (push-push) version substitute LPCB with LPCQ £9.88

Extended Pushbutton Actuators IP67, IP69K

REF NO	PRICE
LPCB202	4.67
LPCB203	4.67
LPCB204	4.67
LPCB205	4.67
LPCB206	4.67
LPCB208	4.67



Selector & Key Switch Operators IP69K

REF NO	Description	PRICE
LPCS121	Thumb-grip 2 Position Selector - Spring Return	9.16
LPCS120	Thumb-grip 2 Position Selector - Stay Put	7.64
LPCS131	Thumb-grip 3 Position Selector - Spring Return	9.16
LPCS130	Thumb-grip 3 Position Selector - Stay Put	9.16
LPCS340	2 Position Key Switch - Spring Return	20.79
LPCS320	2 Position Key switch - Stay Put	20.21
LPCS330	3 Position Key switch - Stay Put	20.21
LPCS331	3 Position Key switch - Stay Put Key removable in all positions	20.21



LPCS130



LPCS331

Mushroom Actuators IP67, IP69K

REF NO	PRICE
LPCB6142	8.60
LPCB6143	8.60
LPCB6144	8.60
LPCB6145	8.60
LPCB6146	8.60



Illuminated Flush Momentary Pushbutton Actuators IP67, IP69K

REF NO	PRICE
LPCBL103	5.95
LPCBL104	5.95
LPCBL105	5.95
LPCBL106	5.95
LPCBL107	5.95



For maintained (push-push) version substitute LPCBL with LPCQL £14.86

Illuminated Extended Pushbutton Actuators IP67, IP69K

REF NO	PRICE
LPCBL203	8.37
LPCBL204	8.37
LPCBL205	8.37
LPCBL206	8.37
LPCBL207	8.37



Illuminated Double Pushbutton Actuators IP67, IP69K

REF NO	PRICE
LPCBL7123	17.09
LPCBL7133	17.09
LPCBL7124	17.09



Indicator Lights - Flush - IP67, IP69K

REF NO	PRICE
LPL3	3.58
LPL4	3.58
LPL5	3.58
LPL6	3.58
LPL7	3.58



Emergency Stop Actuators IP67, IP69K

REF NO	Description	PRICE
LPCB6744	Pull to Release Emergency Stop 40mm Head	17.93
LPCB6634	Twist to Release Emergency Stop 30mm Head	19.20
LPCB6644	Twist to Release Emergency Stop 40mm Head	17.93
LPCB6844	Key to Release Emergency Stop 40mm Head	29.38
LPCBL6644	Illuminated Twist to Release Emergency Stop 40mm Head	27.57



LPCB6644 LPCB6844 LPCBL6644

LED Elements Screw Terminals Front Fixing

REF NO	PRICE
LPXLPB3	6.03
LPXLPB4	6.03
LPXLPB5	6.03
LPXLPB6	6.03
LPXLPB8	6.03
LPXLE3	8.34
LPXLE4	8.34
LPXLE5	8.34
LPXLE6	8.34
LPXLE8	8.34
LPXLPM3	9.88
LPXLPM4	9.88
LPXLPM5	9.88
LPXLPM6	9.88
LPXLPM8	9.88



Fixing Adaptors & Contact Blocks

REF NO	Description	PRICE
LPXAU120	Fixing adaptor for 3 contacts and using middle position for LED elements	1.55
LPXC10	N/O front mount contact block	3.40
LPXC01	N/C front mount contact block	3.40

Accessories for 22.5mm Actuators

REF NO	Description	PRICE
LPXA130	IP67 Blanking plug	2.30
LPXAU115	60mm Emergency stop legend	2.45
LPXAU113	90mm Emergency stop legend	2.54
LPXAU159	Shroud for buttons	9.97



LPXA130 LPXAU115 LPXAU159

Legend Plates

REF NO	Description	PRICE
8LM2TAGB230	STOP	1.75
8LM2TAGB225	START	1.75
8LM2TAGB221	OFF	1.75
8LM2TAGB223	ON	1.75
8LM2TAGB241	RUNNING	1.75
8LM2TAGB236	ON - OFF	1.75
8LM2TAI241	MAN-AUTO	1.75
8LM2TAI242	MAN-O-AUTO	1.75
LPXAU100	Legend holder without label	0.80
LPXAU109	Aluminium insert plate for holder	0.81



LPZP1A5 LPZP3A8

Pushbutton Enclosures IP67, IP69K

REF NO	Description	PRICE
LPZP1A5	Single gang enclosure; Black base, Yellow top	9.57
LPZP1A8	Single gang enclosure; Black base, Grey top	9.57
LPZP2A8	2 gang enclosure; Black base, Grey top	11.82
LPZP3A8	3 gang enclosure; Black base, Grey top	14.00
LPZP4A8	4 gang enclosure; Black base, Grey top	19.21
LPZP5A8	5 gang enclosure; Black base, Grey top	24.71
LPZP6A8	6 gang enclosure; Black base, Grey top	31.71

Kraus & Naimer CA10 Rotary Cam Switches

- 22 Single Hole Mounting or 4 Hole Mounting
- Optional 48mm x 48mm Escutcheon Plate
- Off / On Switches - Changeover Switches - Multi-Step switches
- IP66/67/69 Protection - FT1/FT2 Mounting
- Thermal Rated Current: 20A
- Rated Insulation Voltage - 690V
- Motor Rating - 7.5kW (AC23) @ 380/440V 3 Phase
- 60° Switching

REF NO	Description	PRICE
Off / On Switch		
CA10-A200-600FT1	Off / On Switch - 1 Pole	9.20
CA10-A201-600FT1	Off / On Switch - 2 Pole	10.80
CA10-A202-600FT1	Off / On Switch - 3 Pole	13.31
CA10-A203-600FT1	Off / On Switch - 4 Pole	14.91

Changeover Switch - Centre Off		
CA10-A210-600FT1	Single Pole Switch	10.80
CA10-A211-600FT1	2 Pole Switch	14.91
CA10-A212-600FT1	3 Pole Switch	19.02
CA10-A213-600FT1	4 Pole Switch	23.13

Changeover Switch - No Centre Off		
CA10-A220-600FT1	Single Pole Switch	10.80
CA10-A221-600FT1	2 Pole Switch	14.91
CA10-A222-600FT1	3 Pole Switch	19.02
CA10-A223-600FT1	4 Pole Switch	23.13

3 Step Switch without OFF		
CA10-A230-600FT1	Single Pole Switch	13.31
CA10-A250-600FT1	2 Pole Switch	19.02
CA10-A270-600FT1	3 Pole Switch	25.64
CA10-A476-600FT1	4 Pole Switch	31.35

CA10-A241-600FT1	3 Step Switch with Off 1 Pole 45° Switching	13.31
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4 Step Switch without OFF		
CA10-A231-600FT1	Single Pole Switch	14.91
CA10-A251-600FT1	2 Pole Switch	23.13
CA10-A271-600FT1	3 Pole Switch	31.35
CA10-A477-600FT1	4 Pole Switch	39.57

CA10-A232-600FT1	5 Step Switch without Off - 1 Pole	17.42
CA10-A233-600FT1	6 Step Switch without Off - 1 Pole	19.02



CA10 - Exchange FT1 for FT2 if an Escutcheon plate is required. Exchange FT1 for E if an Escutcheon plate with 4 hole fixing is required. There are many variation of the CG4 and CA10 switches including a full range of keyswitches

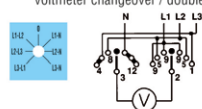
Lovato Voltmeter/Ammeter Switches 16A

REF NO	Description	PRICE
GX1666U	16A Voltmeter Switch; for 3 Phase to Phase Voltage & 3 Phase Voltage readings 3 Wafers - Scheme 66	18.10
GX1668U	16A Voltmeter Switch; Phase to Neutral L1-N/L2-N/L3-N - 2 Wafers - Scheme 68	15.55
GX1667U	16A Voltmeter Switch; Phase to Phase L1-L2/L2-L3/L3-L1 - 2 Wafers - Scheme 67	17.88
GX1697U	16A Ammeter Switch; L1-L2-L3 - 2 Wafers - Scheme 97	48.68
GX1698U	16A Ammeter Switch; L1-L2-L3 Readings via CT's - 3 Wafers Scheme 98	18.38



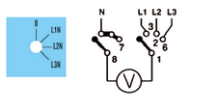
NEW!

66 - Phase-phase phase-neutral voltmeter changeover / double throw



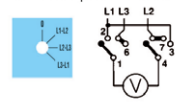
Number of wafers: 3
Switching angle: 30°

68 - Phase-neutral voltmeter switch



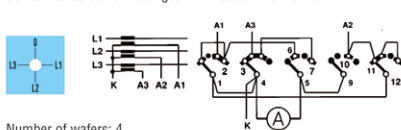
Number of wafers: 2
Switching angle: 30°

67 - Phase-phase voltmeter switch



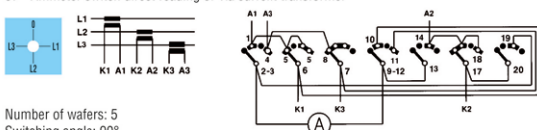
Number of wafers: 2
Switching angle: 30°

98 - L1-L2-L3 current changeover / double throw switch



Number of wafers: 4
Switching angle: 90°

97 - Ammeter switch direct reading or via current transformer



Number of wafers: 5
Switching angle: 90°

Lovato manufacture a large range of Rotary Cam Switches in a variety of ratings.

They are a compact size with dual breaking silver alloy contacts that have a direct (positive) opening action according to IEC/EN60947-5-1.

Externally rated to IP65 with finger protection on the terminals to IP20.

Front plate measures 48mm x 48mm.



CAM Switches - On/Off - 20A

REF NO	Description	PRICE
GX2090U	On/Off Switch Single Pole 20A; 60° Switching	13.05
GX2091U	On/Off Switch Two Pole 20A; 60° Switching	14.85
GX2010U	On/Off Switch Three Pole 20A; 60° Switching	17.88
GX2092U	On/Off Switch Four Pole 20A; 60° Switching	19.60



GX1690U12

CAM Key Switches - On/Off- 20A

REF NO	Description	PRICE
GX1690U12	2 Pos Keyswitch Single Pole 16A; 60° Switching	27.63
GX1691U12	2 Pos Keyswitch Two Pole 16A; 60° Switching	29.13
GX1610U12	2 Pos Keyswitch Three Pole 16A; 60° Switching	31.28
GX1692U12	2 Pos Keyswitch Four Pole 16A; 60° Switching	33.60

The Lovato Rotary CAM switches on this page are 20A. (keyswitches are 16A) Other ratings available are 16A, 32A and 40A. Please ask us for details.

CAM Switches - Change-Over with Centre Off - 20A

REF NO	Description	PRICE
GX2051U	Change-Over Switch - Centre Off 60° Switching; Single Pole 20A	15.78
GX2052U	Change-Over Switch - Centre Off 60° Switching; Two Pole 20A	19.55
GX2053U	Change-Over Switch - Centre Off 60° Switching; Three Pole 20A	24.68
GX2075U	Change-Over Switch - Centre Off 60° Switching; Four Pole 20A	30.13



GX2053U

NEW!



GX2055U

CAM Switches - Change-Over No Centre Off - 20A

REF NO	Description	PRICE
GX2054U	Change-Over Switch - No Centre Off 90° Switching; Single Pole 20A	19.63
GX2055U	Change-Over Switch - No Centre Off 90° Switching; Two Pole 20A	25.75
GX2056U	Change-Over Switch - No Centre Off 90° Switching; Three Pole 20A	31.85
GX2069U	Change-Over Switch - No Centre Off 90° Switching; Four Pole 20A	33.33



TeSys K is a complete range of standard and reversing contactors. They are available as 6A, 9A and 12A in AC or DC voltages.

The parts shown on these pages are for the screw clamp type, however, they are also available with faston connectors, spring terminals and a version for printed circuit board use.

TeSys LC1K06

Rated Thermal Current: AC3: 6A
 Maximum Rated Wire Size: 2.5mm² (14AWG)
 Maximum Power 3 Phase 380 - 415V: 2.2kW
 45mm Wide x 58mm High x 57mm Deep

REF NO	Description	PRICE
LC1K0610B7	3 Pole, 6A, 24VAC, 1 x N/O Auxiliary	22.43
LC1K0610F7	3 Pole, 6A, 110VAC, 1 x N/O Auxiliary	22.43
LC1K0610U7	3 Pole, 6A, 230VAC, 1 x N/O Auxiliary	22.43
LC1K0610N7	3 Pole, 6A, 400VAC, 1 x N/O Auxiliary	23.44
LC1K0601B7	3 Pole, 6A, 24VAC, 1 x N/C Auxiliary	22.00
LC1K0601F7	3 Pole, 6A, 110VAC, 1 x N/C Auxiliary	22.43
LC1K0601U7	3 Pole, 6A, 230VAC, 1 x N/C Auxiliary	23.09
LC1K0601N7	3 Pole, 6A, 400VAC, 1 x N/C Auxiliary	24.54
LP1K0610BD	3 Pole, 6A, 24VDC, 1 x N/O Auxiliary	27.95
LP1K0601BD	3 Pole, 6A, 24VDC, 1 x N/C Auxiliary	27.15

LC1K0610F7



TeSys LC1K09

Rated Thermal Current: AC3: 9A
 Maximum Rated Wire Size: 2.5mm² (14AWG)
 Maximum Power 3 Phase 380 - 415V: 4kW
 45mm Wide x 58mm High x 57mm Deep

REF NO	Description	PRICE
LC1K0910B7	3 Pole, 9A, 24VAC, 1 x N/O Auxiliary	23.49
LC1K0910F7	3 Pole, 9A, 110VAC, 1 x N/O Auxiliary	23.49
LC1K0910U7	3 Pole, 9A, 230VAC, 1 x N/O Auxiliary	23.49
LC1K0910N7	3 Pole, 9A, 400VAC, 1 x N/O Auxiliary	24.66
LC1K0901B7	3 Pole, 9A, 24VAC, 1 x N/C Auxiliary	23.09
LC1K0901F7	3 Pole, 9A, 110VAC, 1 x N/C Auxiliary	23.09
LC1K0901U7	3 Pole, 9A, 230VAC, 1 x N/C Auxiliary	23.49
LC1K0901N7	3 Pole, 9A, 400VAC, 1 x N/C Auxiliary	25.83
LP1K0910BD	3 Pole, 9A, 24VDC, 1 x N/O Auxiliary	28.81
LP1K0901BD	3 Pole, 9A, 24VDC, 1 x N/C Auxiliary	29.37

TeSys LC1K12

Rated Thermal Current: AC3: 12A
 Maximum Rated Wire Size: 2.5mm² (14AWG)
 Maximum Power 3 Phase 380 - 415V: 5.5kW
 45mm Wide x 58mm High x 57mm Deep

REF NO	Description	PRICE
LC1K1210B7	3 Pole, 12A, 24VAC, 1 x N/O Auxiliary	26.40
LC1K1210F7	3 Pole, 12A, 110VAC, 1 x N/O Auxiliary	25.97
LC1K1210U7	3 Pole, 12A, 230VAC, 1 x N/O Auxiliary	25.65
LC1K1210N7	3 Pole, 12A, 400VAC, 1 x N/O Auxiliary	27.70
LC1K1201B7	3 Pole, 12A, 24VAC, 1 x N/C Auxiliary	26.40
LC1K1201F7	3 Pole, 12A, 110VAC, 1 x N/C Auxiliary	26.40
LC1K1201U7	3 Pole, 12A, 230VAC, 1 x N/C Auxiliary	27.20
LC1K1201N7	3 Pole, 12A, 400VAC, 1 x N/C Auxiliary	27.70
LP1K1210BD	3 Pole, 12A, 24VDC, 1 x N/O Auxiliary	32.06
LP1K1201BD	3 Pole, 12A, 24VDC, 1 x N/C Auxiliary	32.06

LC1K1210U7



Auxiliary Blocks for LC1K, LP1K

REF NO	Description	PRICE
LA1KN11	1 x Normally Open, 1 x Normally Closed	6.69
LA1KN20	2 x Normally Open	6.72
LA1KN02	2 x Normally Closed	6.69
LA1KN40	4 x Normally Open	11.62
LA1KN31	3 x Normally Open, 1 x Normally Closed	11.62
LA1KN22	2 x Normally Open, 2 x Normally Closed	11.62
LA1KN04	4 x Normally Closed	11.60

LA1KN02



LA1KN40



Overload Relay for TeSys K Contactors

REF NO	Current Range	Fuse Size	PRICE
LR2K0301	0.11 - 0.16A	2A	31.29
LR2K0302	0.16 - 0.23A	2A	31.29
LR2K0303	0.23 - 0.36A	2A	31.29
LR2K0304	0.36 - 0.54A	4A	31.29
LR2K0305	0.54 - 0.8A	4A	31.29
LR2K0306	0.8 - 1.2A	6A	31.29
LR2K0307	1.2 - 1.8A	6A	31.29
LR2K0308	1.8 - 2.6A	10A	31.29
LR2K0310	2.6 - 3.7A	16A	31.29
LR2K0312	3.7 - 5.5A	16A	31.29
LR2K0314	5.5 - 8A	20A	31.29
LR2K0316	8 - 11.5A	25A	31.29
LR2K0321	10 - 14A	32A	31.29
LR2K0322	12 - 16A	40A	31.29
LA7K0064	Terminal block for separate mounting of overload relay onto TS35 rail		9.20



LR2K0307

Accessories for LC1K, LC1P

REF NO	Description	PRICE
LA2KT2E	On delay timer 24-48V AC/DC with change over contact	61.72
LA2KT2U	On delay timer 110-240V AC/DC with change over contact	61.72
LA4KE1B	Varistor suppressor module 12-24V AC/DC	7.40
LA4KE1FC	Varistor suppressor module 50-129V AC/DC	10.72
LA4KC1B	Diode + Zener diode suppressor module 12-24V DC	10.72
LA4KA1U	RC suppressor module 230-250V AC	10.66



LC1K09004U7

TeSys LC1K09 - 4 Pole Contactors

Rated Thermal Current: 20A
 Maximum Rated Wire Size: 2.5mm² (14AWG)
 45mm Wide x 58mm High x 57mm Deep

REF NO	Description	PRICE
LC1K09004B7	4 x N/O poles, 20A AC1, 24VAC	23.09
LC1K09004F7	4 x N/O poles, 20A AC1, 110VAC	23.49
LC1K09004U7	4 x N/O poles, 20A AC1, 230VAC	23.49

LC1K1210B7



LR2K0307

TeSys D range of contactors has been improved with the introduction of a new mid-range replacement offer from 40A to 65A. This range incorporates a unique patented connection system called Everlink. With Everlink, instead of the standard screw terminals, cap head bolts clamp cables, combining both screw and spring clamp technology, providing a semi-permanent connection.

In addition to quicker and surer installation, Everlink connections cannot suffer cable creep over time by thermal variations or vibration.

A footprint of 45mm width up to 38A is standard, while the 55mm width up to 65A is one of the most compact on the market.

TeSys LC1D09 - 4kW 9A Contactor

Rated Thermal Current AC3: 9A AC1: 25A
 AC3 Maximum Power 3 Phase 380 - 415V: 4kW
 Standard Auxiliaries - 1 x Normally Open/1 x Normally Closed
 45mm Wide x 77mm High x 86mm Deep

REF NO	Description	PRICE
LC1D09B7	3 Pole, 24VAC, 1 x N/O 1 x N/C Auxiliary	29.57
LC1D09F7	3 Pole, 110VAC, 1 x N/O 1 x N/C Auxiliary	29.57
LC1D09U7	3 Pole, 230VAC, 1 x N/O 1 x N/C Auxiliary	31.05
LC1D09N7	3 Pole, 400VAC, 1 x N/O 1 x N/C Auxiliary	31.43
LC1D09BL	3 Pole, 24VDC, 1 x N/O 1 x N/C Auxiliary 2.4W Low consumption coil	40.85



TeSys LC1D18 - 7.5kW 18A Contactor

Rated Thermal Current AC3: 18A AC1: 32A
 AC3 Maximum Power 3 Phase 380 - 415V: 7.5kW
 Standard Auxiliaries - 1 x Normally Open/1 x Normally Closed
 45mm Wide x 77mm High x 86mm Deep

REF NO	Description	PRICE
LC1D18B7	3 Pole, 24VAC, 1 x N/O 1 x N/C Auxiliary	45.12
LC1D18F7	3 Pole, 110VAC, 1 x N/O 1 x N/C Auxiliary	45.12
LC1D18U7	3 Pole, 230VAC, 1 x N/O 1 x N/C Auxiliary	47.38
LC1D18N7	3 Pole, 400VAC, 1 x N/O 1 x N/C Auxiliary	47.95
LC1D18BL	3 Pole, 24VDC, 1 x N/O 1 x N/C Auxiliary 2.4W Low consumption coil	61.20

TeSys LC1D25 - 11kW 25A Contactor

Rated Thermal Current AC3: 25A AC1: 40A
 AC3 Maximum Power 3 Phase 380 - 415V: 11kW
 Standard Auxiliaries - 1 x Normally Open/1 x Normally Closed
 45mm Wide x 85mm High x 92mm Deep

REF NO	Description	PRICE
LC1D25B7	3 Pole, 24VAC, 1 x N/O 1 x N/C Auxiliary	61.62
LC1D25F7	3 Pole, 110VAC, 1 x N/O 1 x N/C Auxiliary	61.62
LC1D25U7	3 Pole, 230VAC, 1 x N/O 1 x N/C Auxiliary	64.70
LC1D25N7	3 Pole, 400VAC, 1 x N/O 1 x N/C Auxiliary	65.84
LC1D25BL	3 Pole, 24VDC, 1 x N/O 1 x N/C Auxiliary 2.4W Low consumption coil	83.46

TeSys LC1D32 - 15kW 32A Contactor

Rated Thermal Current AC3: 32A AC1: 50A
 AC3 Maximum Power 3 Phase 380 - 415V: 15kW
 Standard Auxiliaries - 1 x Normally Open/1 x Normally Closed
 45mm Wide x 85mm High x 92mm Deep

REF NO	Description	PRICE
LC1D32B7	3 Pole, 24VAC, 1 x N/O 1 x N/C Auxiliary	86.78
LC1D32F7	3 Pole, 110VAC, 1 x N/O 1 x N/C Auxiliary	86.78
LC1D32U7	3 Pole, 230VAC, 1 x N/O 1 x N/C Auxiliary	88.22
LC1D32N7	3 Pole, 400VAC, 1 x N/O 1 x N/C Auxiliary	96.11
LC1D32BL	3 Pole, 24VDC, 1 x N/O 1 x N/C Auxiliary 2.4W Low consumption coil	111.77

TeSys LC1D12 - 5.5kW 12A Contactor

Rated Thermal Current AC3: 12A AC1: 25A
 AC3 Maximum Power 3 Phase 380 - 415V: 5.5kW
 Standard Auxiliaries - 1 x Normally Open/1 x Normally Closed
 45mm Wide x 77mm High x 86mm Deep

REF NO	Description	PRICE
LC1D12B7	3 Pole, 24VAC, 1 x N/O 1 x N/C Auxiliary	34.00
LC1D12F7	3 Pole, 110VAC, 1 x N/O 1 x N/C Auxiliary	34.00
LC1D12U7	3 Pole, 230VAC, 1 x N/O 1 x N/C Auxiliary	35.19
LC1D12N7	3 Pole, 400VAC, 1 x N/O 1 x N/C Auxiliary	37.65
LC1D12BL	3 Pole, 24VDC, 1 x N/O 1 x N/C Auxiliary 2.4W Low consumption coil	46.82

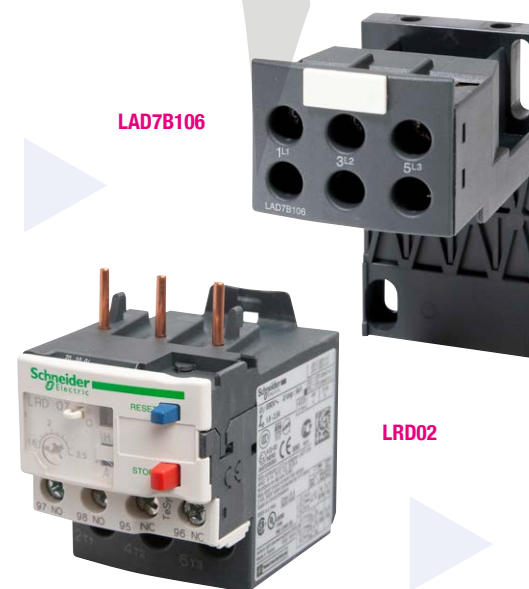
TeSys LC1D38 - 18.5kW 38A Contactor

Rated Thermal Current AC3: 38A AC1: 50A
 AC3 Maximum Power 3 Phase 380 - 415V: 18.5kW
 Standard Auxiliaries - 1 x Normally Open/1 x Normally Closed
 45mm Wide x 85mm High x 92mm Deep

REF NO	Description	PRICE
LC1D38B7	3 Pole, 24VAC, 1 x N/O 1 x N/C Auxiliary	103.64
LC1D38F7	3 Pole, 110VAC, 1 x N/O 1 x N/C Auxiliary	103.64
LC1D38U7	3 Pole, 230VAC, 1 x N/O 1 x N/C Auxiliary	107.25
LC1D38N7	3 Pole, 400VAC, 1 x N/O 1 x N/C Auxiliary	107.25
LC1D38BL	3 Pole, 24VDC, 1 x N/O 1 x N/C Auxiliary 2.4W Low consumption coil	133.79

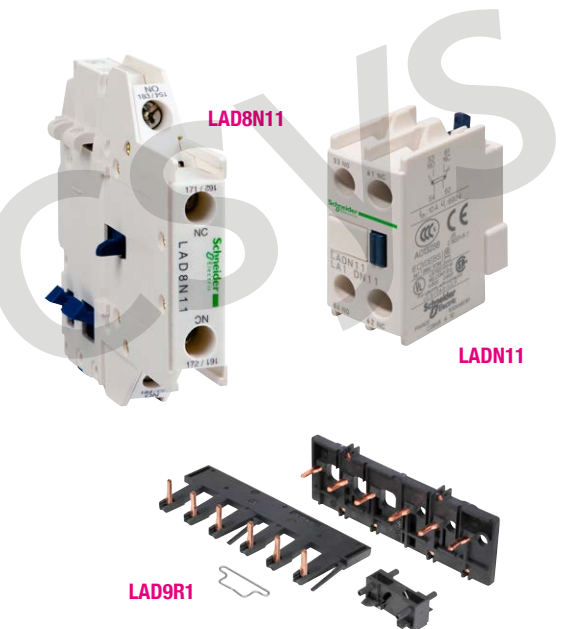
Overload Relay for LC1D09 - D38 Contactors

REF NO	Current Range	Fuse Size	PRICE
LRD01	0.1 - 0.16A	2A	35.94
LRD02	0.16 - 0.25A	2A	35.94
LRD03	0.25 - 0.4A	2A	35.94
LRD04	0.4 - 0.63A	2A	35.94
LRD05	0.63 - 1A	4A	35.94
LRD06	1 - 1.6A	4A	35.94
LRD07	1.6 - 2.5A	6A	35.94
LRD08	2.5 - 4A	10A	35.94
LRD10	4 - 6A	16A	35.94
LRD12	5.5 - 8A	20A	35.94
LRD14	7 - 10A	20A	35.94
LRD16	9 - 13A	25A	37.82
LRD21	12 - 18A	35A	43.33
LRD22	16 - 24A	50A	48.13
LRD32	23 - 32A	63A	63.30
LRD35	30 - 38A	80A	63.30



Auxiliaries for LC1D Contactors

REF NO	Description	PRICE
LADN11	Top mounting auxiliary 1 x N/O, 1 x N/C	8.95
LADN20	Top mounting auxiliary 2 x N/O	8.95
LADN02	Top mounting auxiliary 2 x N/C	8.88
LADN22	Top mounting auxiliary 2 x N/O, 2 x N/C	15.84
LADN13	Top mounting auxiliary 1 x N/O, 3 x N/C	15.72
LADN40	Top mounting auxiliary 4 x N/O	15.72
LADN04	Top mounting auxiliary 4 x N/C	15.72
LADN31	Top mounting auxiliary 3 x N/O, 1 x N/C	15.87
LAD8N11	Side mounting auxiliary 1 x N/O, 1 x N/C	11.75
LAD8N20	Side mounting auxiliary 2 x N/O	11.75
LAD8N02	Side mounting auxiliary 2 x N/C	11.75



Accessories for LC1D09 - D38 Contactors

REF NO	Description	PRICE
LAD9V2	Mechanical interlock	3.42
LAD9R1	Mechanical interlock kit including power connections for reversing contactors	14.61
LAD9R1V	Mechanical and electrical interlock kit including power connections as above	15.63
LAD7B106	Terminal block for remote mounting of overload relay on TS35 rail	22.41
XB5AA86102	Mechanical reset button for overload relays	15.25
LAD4RCU	RC coil suppressor 110-240V AC Clips to side of contactor	11.62

TeSys LC1D40A - 18.5kW 40A Contactor

Rated Thermal Current AC3: 40A AC1: 60A
 AC3 Maximum Power 3 Phase 380 - 415V: 18.5kW
 Standard Auxiliaries - 1 x Normally Open/1 x Normally Closed
 55mm Wide x 122mm High x 120mm Deep

REF NO	Description	PRICE
LC1D40AB7	3 Pole, 24VAC, 1 x N/O 1 x N/C Auxiliary	104.59
LC1D40AF7	3 Pole, 110VAC, 1 x N/O 1 x N/C Auxiliary	104.59
LC1D40AU7	3 Pole, 230VAC, 1 x N/O 1 x N/C Auxiliary	109.83
LC1D40AV7	3 Pole, 400VAC, 1 x N/O 1 x N/C Auxiliary	115.06
LC1D40ABD	3 Pole, 24VDC, 1 x N/O 1 x N/C Auxiliary	152.36

TeSys LC1D50A - 22kW 50A Contactor

Rated Thermal Current AC3: 50A AC1: 80A
 AC3 Maximum Power 3 Phase 380 - 415V: 22kW
 Standard Auxiliaries - 1 x Normally Open/1 x Normally Closed
 55mm Wide x 122mm High x 120mm Deep

REF NO	Description	PRICE
LC1D50AB7	3 Pole, 24VAC, 1 x N/O 1 x N/C Auxiliary	133.46
LC1D50AF7	3 Pole, 110VAC, 1 x N/O 1 x N/C Auxiliary	133.97
LC1D50AU7	3 Pole, 230VAC, 1 x N/O 1 x N/C Auxiliary	133.97
LC1D50AV7	3 Pole, 400VAC, 1 x N/O 1 x N/C Auxiliary	140.13
LC1D50ABD	3 Pole, 24VDC, 1 x N/O 1 x N/C Auxiliary	189.41

TeSys LC1D65A - 30kW 65A Contactor

Rated Thermal Current AC3: 65A AC1: 80A
 AC3 Maximum Power 3 Phase 380 - 415V: 30kW
 Standard Auxiliaries - 1 x Normally Open/1 x Normally Closed
 55mm Wide x 122mm High x 120mm Deep

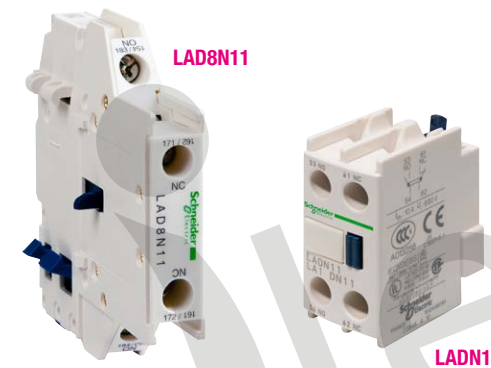
REF NO	Description	PRICE
LC1D65AB7	3 Pole, 24VAC, 1 x N/O 1 x N/C Auxiliary	180.17
LC1D65AF7	3 Pole, 110VAC, 1 x N/O 1 x N/C Auxiliary	180.17
LC1D65AU7	3 Pole, 230VAC, 1 x N/O 1 x N/C Auxiliary	184.51
LC1D65AV7	3 Pole, 400VAC, 1 x N/O 1 x N/C Auxiliary	193.31
LC1D65ABD	3 Pole, 24VDC, 1 x N/O 1 x N/C Auxiliary	255.95



LRD365

Auxiliaries for LC1D Contactors

REF NO	Description	PRICE
LADN11	Top mounting auxiliary 1 x N/O, 1 x N/C	8.95
LADN20	Top mounting auxiliary 2 x N/O	8.95
LADN02	Top mounting auxiliary 2 x N/C	8.88
LADN22	Top mounting auxiliary 2 x N/O, 2 x N/C	15.84
LADN13	Top mounting auxiliary 1 x N/O, 3 x N/C	15.72
LADN40	Top mounting auxiliary 4 x N/O	15.72
LADN04	Top mounting auxiliary 4 x N/C	15.72
LADN31	Top mounting auxiliary 3 x N/O, 1 x N/C	15.87
LAD8N11	Side mounting auxiliary 1 x N/O, 1 x N/C	11.75
LAD8N20	Side mounting auxiliary 2 x N/O	11.75
LAD8N02	Side mounting auxiliary 2 x N/C	11.75



LAD8N11

LADN11

Clip-on Timers with 1 x N/O, 1 x N/C Contacts

REF NO	Description	PRICE
LADT2	On-delay Timer 0.1 - 30 Seconds	65.11
LADR2	Off-delay Timer 0.1 - 30 Seconds	65.11
LADS2	Star Delta Timer 0.1 - 30 Seconds	71.66



LADS2

Star Delta Wiring Kits

REF NO	Description	PRICE
LAD91217	Star Delta Kit for LC1D09 and LC1D12 including LADS2 timer, mechanical interlock and power circuit connections.	102.95
LAD93217	Star Delta Kit for LC1D18 and LC1D32 including LADS2 timer, mechanical interlock and power circuit connections.	144.14
LAD9SD3	Star Delta Kit for LC1D40A and LC1D50A including LADS2 timer, mechanical interlock and power circuit connections.	136.15
LAD9V16	Block to raise D09, D12 or D18 to the height of D25, D32 or D38	5.75

kW Rating 380/400V	Line KM2	Delta KM3	Star KM1
7.5kW	LC1D09	LC1D09	LC1D09
11kW	LC1D18	LC1D12	LC1D09
18.5kW	LC1D25	LC1D25	LC1D09
25kW	LC1D32	LC1D32	LC1D18
37kW	LC1D40A	LC1D40A	LC1D40A
55kW	LC1D50A	LC1D50A	LC1D40A
75kW	LC1D80	LC1D80	LC1D80
110kW	LC1D1156	LC1D1156	LC1D1156
132kW	LC1D1506	LC1D1506	LC1D1506

Overload Relay for LC1D40 - D65 Contactors

REF NO	Current Range	Fuse Size	PRICE
LRD313	9 - 13A	25A	69.96
LRD318	12 - 18A	32A	73.36
LRD325	16 - 25A	50A	75.06
LRD332	23 - 32A	63A	76.77
LRD340	25 - 40A	80A	78.49
LRD350	37 - 50A	100A	92.14
LRD365	48 - 65A	100A	94.56

Accessories for LC1D40A - D65 Contactors

REF NO	Description	PRICE
LAD4CM	Mechanical interlock LC1-D40A - D65A	21.60
LAD9R3	Mechanical interlock kit including power connections for reversing contactors	49.74
LAD96560	Everlink terminal block for remote mounting of overload relay	11.99
XB5AA86102	Mechanical reset button for overload relays	15.52
LAD703B	Remote stop or electrical reset device 24V	49.84
LAD703F	As above but 110V	49.84
LAD703M	As above but 220 - 240V	49.84
LAD4RC3U	RC coil suppressor 110-240V AC Clips to front of contactor Suits LC1-D40A to LC1-D65A	16.05



XB5AA86102

LAD703



LC1D40A**

ATV
 Variable Speed Drives
 See pages 334-335
 Schneider Electric

An appropriately sized overload should be selected according to the motor size. If using the overload on the line contactor, the overload should cover the Full Load Current x 0.58.

For customers not wishing to purchase the Star Delta Kits, you will require the three contactors listed above, a mechanical interlock and a Star Delta Timer. In addition, if using a combination where the Star Contactor is smaller than the Line and Delta, please order an LAD-9V16, which is an additional block to raise the smaller contactor to the level of the larger one.

TeSys LC1D80 - 37kW 80A Contactor

Rated Thermal Current AC3: 80A AC1: 125A
 AC3 Maximum Power 3 Phase 380 - 415V: 37kW
 Standard Auxiliaries - 1 x Normally Open/1 x Normally Closed
 Dimensions: 85mmW x 127mmH x 130mmD

REF NO	Description	PRICE
LC1D80B7	3 Pole, 24VAC, 1 x N/O 1 x N/C Auxiliary	238.85
LC1D80F7	3 Pole, 110VAC, 1 x N/O 1 x N/C Auxiliary	238.84
LC1D80U7	3 Pole, 230VAC, 1 x N/O 1 x N/C Auxiliary	250.79
LC1D80V7	3 Pole, 400VAC, 1 x N/O 1 x N/C Auxiliary	262.75
LC1D80BD	3 Pole, 24VDC, 1 x N/O 1 x N/C Auxiliary 85mmW x 127mmH x 186mmD	320.22



LC1D80**

TeSys LC1D115 - 55kW 115A Contactor

Rated Thermal Current AC3: 115A AC1: 200A
 AC3 Maximum Power 3 Phase 380 - 415V: 55kW
 Standard Auxiliaries - 1 x Normally Open/1 x Normally Closed
 Dimensions: 120mmW x 158mmH x 136mmD

REF NO	Description	PRICE
LC1D115B7	3 Pole, 24VAC, 1 x N/O 1 x N/C Auxiliary	346.06
LC1D115F7	3 Pole, 110VAC, 1 x N/O 1 x N/C Auxiliary	346.04
LC1D115U7	3 Pole, 230VAC, 1 x N/O 1 x N/C Auxiliary	354.15
LC1D115N7	3 Pole, 415VAC, 1 x N/O 1 x N/C Auxiliary	354.18
LC1D115BD	3 Pole, 24VDC, 1 x N/O 1 x N/C Auxiliary	434.11

TeSys LC1D150 - 75kW 150A Contactor

Rated Thermal Current AC3: 150A AC1: 200A
 AC3 Maximum Power 3 Phase 380 - 415V: 75kW
 Standard Auxiliaries - 1 x Normally Open/1 x Normally Closed
 Dimensions: 120mmW x 158mmH x 136mmD

REF NO	Description	PRICE
LC1D150B7	3 Pole, 24VAC, 1 x N/O 1 x N/C Auxiliary	417.59
LC1D150F7	3 Pole, 110VAC, 1 x N/O 1 x N/C Auxiliary	431.99
LC1D150U7	3 Pole, 230VAC, 1 x N/O 1 x N/C Auxiliary	431.99
LC1D150N7	3 Pole, 415VAC, 1 x N/O 1 x N/C Auxiliary	411.42
LC1D150BD	3 Pole, 24VDC, 1 x N/O 1 x N/C Auxiliary	487.17



LC1D150**

TeSys LC1D95 - 45kW 95A Contactor

Rated Thermal Current AC3: 95A AC1: 125A
 AC3 Maximum Power 3 Phase 380 - 415V: 45kW
 Standard Auxiliaries - 1 x Normally Open/1 x Normally Closed
 Dimensions: 85mmW x 127mmH x 130mmD

REF NO	Description	PRICE
LC1D95B7	3 Pole, 24VAC, 1 x N/O 1 x N/C Auxiliary	302.48
LC1D95F7	3 Pole, 110VAC, 1 x N/O 1 x N/C Auxiliary	302.48
LC1D95U7	3 Pole, 230VAC, 1 x N/O 1 x N/C Auxiliary	306.11
LC1D95V7	3 Pole, 400VAC, 1 x N/O 1 x N/C Auxiliary	321.38
LC1D95BD	3 Pole, 24VDC, 1 x N/O 1 x N/C Auxiliary 85mmW x 127mmH x 186mmD	353.88

Overload Relay for LC1D80 - D95 Contactors

REF NO	Current Range	Fuse Size	PRICE
LRD3361	55 - 70A	125A	93.12
LRD3363	63 - 80A	125A	106.52
LRD3365	80 - 104A	160A	113.75

Overload Relays for LC1D115 - D150 Contactors

REF NO	Current Range	Fuse Size	PRICE
LRD4365	80 - 104A	200A	157.47
LRD4367	95 - 120A	200A	209.21
LRD4369	110 - 140A	250A	224.44



LC1DT20

TeSys LC1D - 4 Pole Contactors - 4 N/O

The TeSys D range of contactors includes a four pole version offering 4 Normally Open contacts in most sizes. TeSys D covers up to 200A although bigger contactors are available.

REF NO	Description	PRICE
LC1DT20B7	4 N/O, 24VAC, AC1 20A	35.49
LC1DT20F7	4 N/O, 110VAC, AC1 20A	35.49
LC1DT20U7	4 N/O, 230VAC, AC1 20A	37.25
LC1DT20N7	4 N/O, 415VAC, AC1 20A	37.71
LC1DT20BD	4 N/O, 24VDC, AC1 20A	52.12
LC1DT25B7	4 N/O, 24VAC, AC1 25A	40.22
LC1DT25F7	4 N/O, 110VAC, AC1 25A	40.22
LC1DT25U7	4 N/O, 230VAC, AC1 25A	42.22
LC1DT25N7	4 N/O, 415VAC, AC1 25A	42.98
LC1DT25BD	4 N/O, 24VDC, AC1 25A	66.20
LC1DT32B7	4 N/O, 24VAC, AC1 32A	53.52
LC1DT32F7	4 N/O, 110VAC, AC1 32A	53.52
LC1DT32U7	4 N/O, 230VAC, AC1 32A	53.52
LC1DT32N7	4 N/O, 415VAC, AC1 32A	53.52
LC1DT32BD	4 N/O, 24VDC, AC1 32A	88.82
LC1DT40B7	4 N/O, 24VAC, AC1 40A	73.94
LC1DT40F7	4 N/O, 110VAC, AC1 40A	73.94
LC1DT40U7	4 N/O, 230VAC, AC1 40A	77.15
LC1DT40N7	4 N/O, 415VAC, AC1 40A	77.15
LC1DT40BD	4 N/O, 24VDC, AC1 40A	109.75

TeSys LC1D - 4 Pole Contactors - 2 N/O / 2N/C

The TeSys D range of contactors includes a four pole version offering 2 Normally Open, 2 Normally Closed in most sizes. TeSys D covers up to 200A although bigger contactors are available.

REF NO	Description	PRICE
LC1D098B7	2 N/O 2N/C, 24VAC, AC1 20A	39.99
LC1D098F7	2 N/O 2N/C, 110VAC, AC1 20A	39.99
LC1D098U7	2 N/O 2N/C, 230VAC, AC1 20A	40.98
LC1D098N7	2 N/O 2N/C, 415VAC, AC1 20A	43.40
LC1D098BD	2 N/O 2N/C, 24VDC, AC1 20A	65.50
LC1D128B7	2 N/O 2N/C, 24VAC, AC1 25A	44.24
LC1D128F7	2 N/O 2N/C, 110VAC, AC1 25A	44.24
LC1D128U7	2 N/O 2N/C, 230VAC, AC1 25A	46.44
LC1D128N7	2 N/O 2N/C, 415VAC, AC1 25A	47.11
LC1D128BD	2 N/O 2N/C, 24VDC, AC1 20A	84.95
LC1D188B7	2 N/O 2N/C, 24VAC, AC1 32A	59.43
LC1D188F7	2 N/O 2N/C, 110VAC, AC1 32A	59.42
LC1D188U7	2 N/O 2N/C, 230VAC, AC1 32A	59.42
LC1D188N7	2 N/O 2N/C, 415VAC, AC1 32A	57.71
LC1D188BD	2 N/O 2N/C, 24VDC, AC1 32A	110.44

TeSys LC1F Contactors

The TeSys F contactors cover a range up to 450kW - 800A AC3/1600AAC1 in 3 and 4 pole. On this range the contactor is ordered separately from the coil.



For more information on the LC1F contactors, please contact us or scan QR code for further technical information

The GV2 / GV3 thermal magnetic circuit breakers are specifically designed for the control and protection of motors, conforming to standards IEC 60947-2 and IEC 60947-4-1.

Control is manual and local when the motor circuit breaker is used on its own. Control is automatic and remote when it is associated with a contactor.

GV2ME Motor Circuit Breaker with Pushbutton Control
45mm wide x 89mm high

REF NO	Thermal Setting Range	Motor Rating kW	Contactor	PRICE
GV2ME01	0.1 - 0.16A	0.02	LC1K06/D09	41.18
GV2ME02	0.16 - 0.25A	0.06	LC1K06/D09	41.35
GV2ME03	0.25 - 0.4A	0.09	LC1K06/D09	41.35
GV2ME04	0.4 - 0.63A	0.12	LC1K06/D09	46.03
GV2ME05	0.63 - 1A	0.25	LC1K06/D09	50.78
GV2ME06	1 - 1.6A	0.55	LC1K06/D09	50.78
GV2ME07	1.6 - 2.5A	0.75	LC1K06/D09	50.78
GV2ME08	2.5 - 4A	1.5	LC1K06/D09	50.78
GV2ME10	4 - 6.3A	2.2	LC1K06/D09	50.78
GV2ME14	6 - 10A	4	LC1K09/D09	59.56
GV2ME16	9 - 14A	5.5	LC1K12/D09	59.56
GV2ME20	13 - 18A	7.5	LC1D18	59.56
GV2ME21	17 - 23A	9	LC1D25	64.14
GV2ME22	20 - 25A	11	LC1D25	72.56
GV2ME32	24 - 32A	15	LC1D32	119.06



GV2ME07

GV2P Motor Circuit Breaker with Rotary Knob
45mm wide x 89mm high

REF NO	Thermal Setting Range	Motor Rating	Contactor	PRICE
GV2P01	0.1 - 0.16A	0.02kW	LC1D09	65.85
GV2P02	0.16 - 0.25A	0.06kW	LC1D09	65.85
GV2P03	0.25 - 0.4A	0.09kW	LC1D09	65.85
GV2P04	0.4 - 0.63A	0.12kW	LC1D09	71.65
GV2P05	0.63 - 1A	0.25kW	LC1D09	80.94
GV2P06	1 - 1.6A	0.55kW	LC1D09	80.94
GV2P07	1.6 - 2.5A	0.75kW	LC1D09	80.94
GV2P08	2.5 - 4A	1.5kW	LC1D09	80.94
GV2P10	4 - 6.3A	2.2kW	LC1D09	80.94
GV2P14	6 - 10A	4kW	LC1D12	94.58
GV2P16	9 - 14A	5.5kW	LC1D25	94.58
GV2P20	13 - 18A	7.5kW	LC1D25	94.58
GV2P21	17 - 23A	9kW	LC1D25	102.35
GV2P22	20 - 25A	11kW	LC1D32	114.83
GV2P32	24 - 32A	15kW	LC1D32	133.23



GV3P40

GV-P Motor Circuit Breaker with Rotary Knob
55mm wide x 132mm high

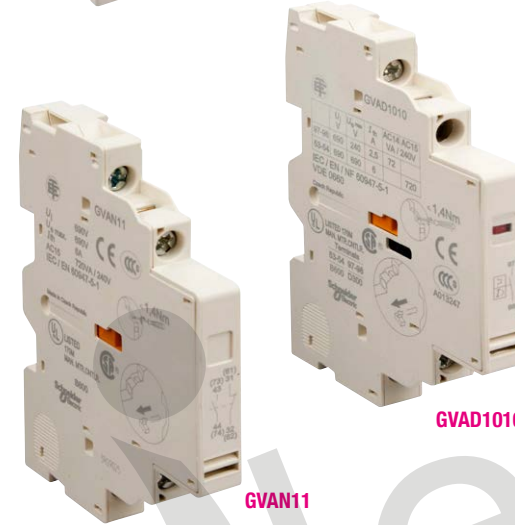
REF NO	Thermal Setting Range	Motor Rating	Contactor	PRICE
GV3P40	30-40A	18.5kW	LC1D40A	145.38
GV3P50	37-50A	22kW	LC1D50A	158.57
GV3P65	48-65A	30kW	LC1D65A	168.18

Shunt & Undervoltage Trips for GV2 & GV3

REF NO	Description	PRICE
Right side mounting Shunt Trip		
GVAS025	24V AC Shunt Trip	23.05
GVAS115	110V - 115V AC Shunt Trip	23.73
GVAS225	220V - 240V AC Shunt Trip	23.73
GVAS385	380V - 400V AC Shunt Trip	23.05
Right side mounting Undervoltage Trips		
GVAU025	24V AC Undervoltage Trip	23.73
GVAU115	110V AC Undervoltage Trip	23.73
GVAU225	230V AC Undervoltage Trip	23.73
GVAU385	400V AC Undervoltage Trip	23.73



GVAE11



GVAN11

GVAD1010

GVAU225



Auxiliaries for GV2 Breakers

REF NO	Description	PRICE
GVAE1	Front mounting auxiliary N/O or N/C reversible block to determine contact status	5.32
GVAE11	Front mounting auxiliary 1 x N/O, 1 x N/C	8.13
GVAE20	Front mounting auxiliary 2 x N/O	8.13
GVAN11	Side mounting auxiliary 1 x N/O, 1 x N/C Left hand mounting	8.30
GVAN20	Side mounting auxiliary 2 x N/O Left hand mounting	8.30
GVAD1010	Fault signalling N/O contact + N/O auxiliary Left hand mounting	13.69
GVAD1001	Fault signalling N/O contact + N/C auxiliary Left hand mounting	13.69
GVAD0110	Fault signalling N/C contact + N/O auxiliary Left hand mounting	13.69
GVAD0101	Fault signalling N/C contact + N/C auxiliary Left hand mounting	13.87

Accessories for GV2 Breakers

REF NO	Description	PRICE
GV2AF01	Combination block for mounting GV2 and TeSys K contactors	3.13
GV2AF3	Combination block for mounting GV2 and TeSys D LC1D09 - 38 contactors	4.14
GV1L3	Top mounting current limiter	52.36
GV1G09	Top mounting terminal block for supply to one or more busbar sets	11.03
GV2G245	45mm pitch 3 pole busbar - 2 Tap-offs	8.35
GV2G345	45mm pitch 3 pole busbar - 3 Tap-offs	11.01
GV2G445	45mm pitch 3 pole busbar - 4 Tap-offs	14.67
GV2G254	54mm pitch 3 pole busbar - 2 Tap-offs	14.67
GV2G354	54mm pitch 3 pole busbar - 3 Tap-offs	12.58
GV2G454	54mm pitch 3 pole busbar - 4 Tap-offs	14.67
GV2G554	54mm pitch 3 pole busbar - 5 Tap-offs	18.94
GV1G10	Cover for unused busbar outlets	4.32



Eaton offer a comprehensive range of contactors to control motors up to 170A.

The DILEM 8.5A Mini Contactor is ideal for small motors and where space is limited. They have universal UL and CSA approvals. The DILM range covers 7A to 170A in 4 different frame sizes. They are UL and CSA approved and also have GOST R and Ukrain-GOST accreditation. DC contactors have an integrated suppressor.

DILEM 4kW 8.5A Mini Contactor

Rated thermal current AC3 8.5A
 Rated thermal current AC1 20A
 AC3 Maximum power 3 phase 380 - 415V 4kW
 45mm Wide x 58mm High x 52mm Deep

REF NO	Description	PRICE
DILEM-10(24V50HZ)	3 pole, 24VAC, 1 x N/O auxiliary	24.44
DILEM-10(110V50HZ)	3 pole, 110VAC, 1 x N/O auxiliary	24.44
DILEM-10(230V50HZ)	3 pole, 230VAC, 1 x N/O auxiliary	24.44
DILEM-10(400V50HZ)	3 pole, 400VAC, 1 x N/O auxiliary	24.44
DILEM-01(24V50HZ)	3 pole, 24VAC, 1 x N/C auxiliary	24.44
DILEM-01(110V50HZ)	3 pole, 110VAC, 1 x N/C auxiliary	24.44
DILEM-01(230V50HZ)	3 pole, 230VAC, 1 x N/C auxiliary	24.44
DILEM-01(400V50HZ)	3 pole, 400VAC, 1 x N/C auxiliary	24.44
DILEM-10-G(24VDC)	3 pole, 24VDC, 1 x N/O auxiliary	28.63
DILEM-01-G(24VDC)	3 pole, 24VDC, 1 x N/C auxiliary	28.63



DILM7 3kW 7A Contactor

Rated thermal current AC3 7A
 Rated thermal current AC1 20A
 AC3 Maximum power 3 phase 380 - 415V 3kW
 45mm Wide x 68mm High x 75mm Deep

REF NO	Description	PRICE
DILM7-10(24V50HZ)	3 pole, 24VAC, 1 x N/O auxiliary	24.72
DILM7-10(110V50HZ)	3 pole, 110VAC, 1 x N/O auxiliary	24.72
DILM7-10(230V50HZ)	3 pole, 230VAC, 1 x N/O auxiliary	24.72
DILM7-10(400V50HZ)	3 pole, 400VAC, 1 x N/O auxiliary	24.72
DILM7-01(24V50HZ)	3 pole, 24VAC, 1 x N/C auxiliary	24.72
DILM7-01(110V50HZ)	3 pole, 110VAC, 1 x N/C auxiliary	24.72
DILM7-01(230V50HZ)	3 pole, 230VAC, 1 x N/C auxiliary	24.72
DILM7-01(400V50HZ)	3 pole, 400VAC, 1 x N/C auxiliary	24.72
DILM7-10(24VDC)	3 pole, 24VDC, 1 x N/O auxiliary	28.78
DILM7-01(24VDC)	3 pole, 24VDC, 1 x N/C auxiliary	28.78

DILM9 4kW 9A Contactor

Rated thermal current AC3 9A
 Rated thermal current AC1 20A
 AC3 Maximum power 3 phase 380 - 415V 4kW
 45mm Wide x 68mm High x 75mm Deep

REF NO	Description	PRICE
DILM9-10(24V50HZ)	3 pole, 24VAC, 1 x N/O auxiliary	26.29
DILM9-10(110V50HZ)	3 pole, 110VAC, 1 x N/O auxiliary	26.29
DILM9-10(230V50HZ)	3 pole, 230VAC, 1 x N/O auxiliary	26.29
DILM9-10(400V50HZ)	3 pole, 400VAC, 1 x N/O auxiliary	26.29
DILM9-01(24V50HZ)	3 pole, 24VAC, 1 x N/C auxiliary	26.29
DILM9-01(110V50HZ)	3 pole, 110VAC, 1 x N/C auxiliary	26.29
DILM9-01(230V50HZ)	3 pole, 230VAC, 1 x N/C auxiliary	26.29
DILM9-01(400V50HZ)	3 pole, 400VAC, 1 x N/C auxiliary	26.29
DILM9-10(24VDC)	3 pole, 24VDC, 1 x N/O auxiliary	30.24
DILM9-01(24VDC)	3 pole, 24VDC, 1 x N/C auxiliary	30.24

Overload Relay for DILEM Contactors

REF NO	Current Range	Fuse Size	PRICE
ZE-0.16	0.1 - 0.16A	0.5A	34.84
ZE-0.24	0.16 - 0.24A	1A	34.84
ZE-0.4	0.24 - 0.4A	2A	34.84
ZE-0.6	0.4 - 0.6A	2A	34.84
ZE-1.0	0.6 - 1A	4A	34.84
ZE-1.6	1 - 1.6A	4A	34.84
ZE-2.4	1.6 - 2.4A	6A	34.84
ZE-4	2.4A - 4A	6A	34.84
ZE-6	4A - 6A	16A	34.84
ZE-9	6 - 9A	20A	34.84
11DILEM	1 x N/O; 1 x N/C Auxiliary		7.00
22DILEM	2 x N/O; 2 x N/C Auxiliary		12.42
MVDILE	Mechanical Interlock for DILEM		8.30

DILM12 5.5kW 12A Contactor

Rated thermal current AC3 12A
 Rated thermal current AC1 20A
 AC3 Maximum power 3 phase 380 - 415V 5.5kW
 45mm Wide x 68mm High x 75mm Deep

REF NO	Description	PRICE
DILM12-10(24V50HZ)	3 pole, 24VAC, 1 x N/O auxiliary	32.26
DILM12-10(110V50HZ)	3 pole, 110VAC, 1 x N/O auxiliary	32.26
DILM12-10(230V50HZ)	3 pole, 230VAC, 1 x N/O auxiliary	32.26
DILM12-10(400V50HZ)	3 pole, 400VAC, 1 x N/O auxiliary	32.26
DILM12-01(24V50HZ)	3 pole, 24VAC, 1 x N/C auxiliary	32.26
DILM12-01(110V50HZ)	3 pole, 110VAC, 1 x N/C auxiliary	32.26
DILM12-01(230V50HZ)	3 pole, 230VAC, 1 x N/C auxiliary	32.26
DILM12-01(400V50HZ)	3 pole, 400VAC, 1 x N/C auxiliary	32.26
DILM12-10(24VDC)	3 pole, 24VDC, 1 x N/O auxiliary	37.54
DILM12-01(24VDC)	3 pole, 24VDC, 1 x N/C auxiliary	37.54



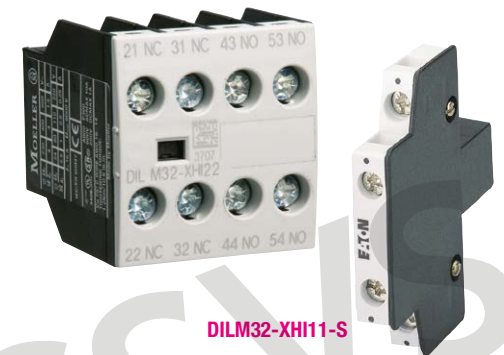
Overload Relays for DILM7 - DILM12 Contactors

REF NO	Current Range	Fuse Size	PRICE
ZB12-0.16	0.1 - 0.16A	0.5A	32.67
ZB12-0.24	0.16 - 0.24A	1A	32.67
ZB12-0.4	0.24 - 0.4A	2A	32.67
ZB12-0.6	0.4 - 0.6A	2A	32.67
ZB12-1	0.6 - 1A	4A	32.67
ZB12-1.6	1 - 1.6A	4A	32.67
ZB12-2.4	1.6 - 2.4A	6A	32.67
ZB12-4	2.4A - 4A	6A	32.67
ZB12-6	4A - 6A	16A	32.67
ZB12-10	6 - 10A	20A	32.67
ZB12-12	9 - 12A	25A	32.67
ZB12-16	12 - 16A	35A	37.65

Auxiliaries for DILM7 - DILM32 Contactors

REF NO	Description	PRICE
DILM32-XHI11	Top mounting auxiliary; 1 x N/O 1 x N/C	6.13
DILM32-XHI02	Top mounting auxiliary; 2 x N/C	6.13
DILM32-XHI22	Top mounting auxiliary; 2 x N/O, 2 x N/C	10.37
DILM32-XHI11-S	Side mounting auxiliary; 1 x N/O, 1 x N/C	13.38

DILM32-XHI22



DILM32-XHI11-S

Accessories for DILM7 to DILM12 Contactors

REF NO	Description	PRICE
DILM12-XXMV	Mechanical interlock	8.27
DILM12-XSL	Star Delta connection kit	10.80
DILM32-XTEE11(RA24)	On delay top mounting timer 24V AC/DC	54.08
DILM32-XTEE11(RA230)	On delay top mounting timer 230V AC	54.08
DILM32-XTEY20(RA24)	Star Delta top mounting timer 24V AC/DC	54.08
DILM32-XTEY20(RA230)	Star Delta top mounting timer 230V AC	54.08



DILM12-XSL



DILM12-XTEE11



DILM12-XXMV

DILM17 7.5kW 18A Contactor

Rated thermal current AC3 18A
 Rated thermal current AC1 35A
 AC3 Maximum power 3 phase 380 - 415V 7.5kW
 45mm Wide x 85mm High x 97mm Deep

REF NO	Description	PRICE
DILM17-10(24V50HZ)	3 pole, 24VAC, 1 x N/O auxiliary	42.22
DILM17-10(110V50HZ)	3 pole, 110VAC, 1 x N/O auxiliary	42.22
DILM17-10(230V50HZ)	3 pole, 230VAC, 1 x N/O auxiliary	42.22
DILM17-10(400V50HZ)	3 pole, 400VAC, 1 x N/O auxiliary	42.22
DILM17-01(24V50HZ)	3 pole, 24VAC, 1 x N/C auxiliary	42.22
DILM17-01(110V50HZ)	3 pole, 110VAC, 1 x N/C auxiliary	42.22
DILM17-01(230V50HZ)	3 pole, 230VAC, 1 x N/C auxiliary	42.22
DILM17-01(400V50HZ)	3 pole, 400VAC, 1 x N/C auxiliary	42.22
DILM17-10(RDC24)	3 pole, 24VDC, 1 x N/O auxiliary	59.53
DILM17-01(RDC24)	3 pole, 24VDC, 1 x N/C auxiliary	59.53

DILM32 15kW 32A Contactor

Rated thermal current AC3 32A
 Rated thermal current AC1 40A
 AC3 Maximum power 3 phase 380 - 415V 15kW
 45mm Wide x 85mm High x 97mm Deep

REF NO	Description	PRICE
DILM32-10(24V50HZ)	3 pole, 24VAC, 1 x N/O auxiliary	86.14
DILM32-10(110V50HZ)	3 pole, 110VAC, 1 x N/O auxiliary	86.14
DILM32-10(230V50HZ)	3 pole, 230VAC, 1 x N/O auxiliary	86.14
DILM32-10(400V50HZ)	3 pole, 400VAC, 1 x N/O auxiliary	86.14
DILM32-01(24V50HZ)	3 pole, 24VAC, 1 x N/C auxiliary	86.14
DILM32-01(110V50HZ)	3 pole, 110VAC, 1 x N/C auxiliary	86.14
DILM32-01(230V50HZ)	3 pole, 230VAC, 1 x N/C auxiliary	86.14
DILM32-01(400V50HZ)	3 pole, 400VAC, 1 x N/C auxiliary	86.14
DILM32-10(RCD24)	3 pole, 24VDC, 1 x N/O auxiliary	112.32
DILM32-01(RCD24)	3 pole, 24VDC, 1 x N/C auxiliary	112.32

Accessories for DILM17 to DILM32 Contactors

REF NO	Description	PRICE
DILM32-XMV	Mechanical interlock	8.27
DILM32-XSL	Star Delta connection kit	10.80
DILM32-XTEE11(RA24)	On delay top mounting timer 24V AC/DC	54.08
DILM32-XTEE11(RA230)	On delay top mounting timer 230V AC	54.08
DILM32-XTEY20(RA24)	Star Delta top mounting timer 24V AC/DC	54.08
DILM32-XTEY20(RA230)	Star Delta top mounting timer 230V AC	54.08

Cables & Accessories

Tri-Rated Cable to BS6231 available at iLECSYS

See Page 152

Available Colours



DILM17-10***

Overload Relays for DILM17 - DILM32 Contactors

REF NO	Current Range	Fuse Size	PRICE
ZB32-0.16	0.1 - 0.16A	0.5A	39.10
ZB32-0.24	0.16 - 0.24A	1A	39.10
ZB32-0.4	0.24 - 0.4A	2A	39.10
ZB32-0.6	0.4 - 0.6A	2A	39.10
ZB32-1	0.6 - 1A	4A	39.10
ZB32-1.6	1 - 1.6A	4A	39.10
ZB32-2.4	1.6 - 2.4A	6A	39.10
ZB32-4	2.4A - 4A	6A	39.10
ZB32-6	4A - 6A	16A	39.10
ZB32-10	6 - 10A	20A	39.10
ZB32-16	10 - 16A	35A	39.10
ZB32-24	16 - 24A	50A	39.10
ZB32-32	24 - 32A	80A	61.74

DILM25 11kW 25A Contactor

Rated thermal current AC3 25A
 Rated thermal current AC1 40A
 AC3 Maximum power 3 phase 380 - 415V 11kW
 45mm Wide x 85mm High x 97mm Deep

REF NO	Description	PRICE
DILM25-10(24V50HZ)	3 pole, 24VAC, 1 x N/O auxiliary	57.20
DILM25-10(110V50HZ)	3 pole, 110VAC, 1 x N/O auxiliary	57.20
DILM25-10(230V50HZ)	3 pole, 230VAC, 1 x N/O auxiliary	57.20
DILM25-10(400V50HZ)	3 pole, 400VAC, 1 x N/O auxiliary	57.20
DILM25-01(24V50HZ)	3 pole, 24VAC, 1 x N/C auxiliary	57.20
DILM25-01(110V50HZ)	3 pole, 110VAC, 1 x N/C auxiliary	57.20
DILM25-01(230V50HZ)	3 pole, 230VAC, 1 x N/C auxiliary	57.20
DILM25-01(400V50HZ)	3 pole, 400VAC, 1 x N/C auxiliary	57.20
DILM25-10(RDC24)	3 pole, 24VDC, 1 x N/O auxiliary	76.51
DILM25-01(RDC24)	3 pole, 24VDC, 1 x N/C auxiliary	76.51



ZB32***



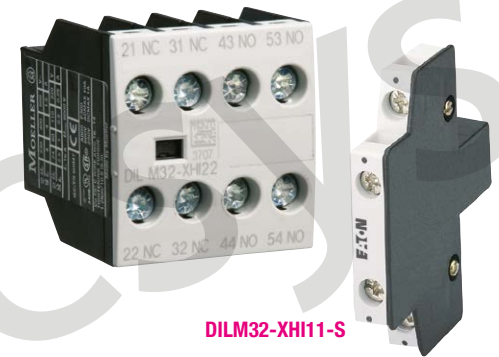
DILM32-XSL



DILM32-XTEE11

NEW!

DILM32-XHI22



DILM32-XHI11-S

PolyBox
 Rugged Industrial Enclosures



See Our Full Range on Pages 80-81

Auxiliaries for DILM17 - DILM32 Contactors

REF NO	Description	PRICE
DILM32-XHI11	Top mounting auxiliary; 1 x N/O 1 x N/C	6.13
DILM32-XHI02	Top mounting auxiliary; 2 x N/C	6.13
DILM32-XHI22	Top mounting auxiliary; 2 x N/O, 2 x N/C	10.37
DILM32-XHI11-S	Side mounting auxiliary; 1 x N/O, 1 x N/C	13.38



2 Contactors showing position of DILM32-XMV Mechanical Interlock

DILM40 18.5kW 40A Contactor

Rated thermal current AC3 40A
 Rated thermal current AC1 50A
 55mm Wide x 115mm High x 132mm Deep

REF NO	Description	PRICE
DILM40(24V50HZ)	3 pole, 24VAC, No auxiliaries	99.03
DILM40(110V50HZ)	3 pole, 110VAC, No auxiliaries	99.03
DILM40(230V50HZ)	3 pole, 230VAC, No auxiliaries	99.03
DILM40(400V50HZ)	3 pole, 400VAC, No auxiliaries	99.03
DILM40(RDC24)	3 pole, 24VDC, No auxiliaries	138.99

DILM50 22kW 50A Contactor

Rated thermal current AC3 50A
 Rated thermal current AC1 65A
 55mm Wide x 115mm High x 132mm Deep

REF NO	Description	PRICE
DILM50(24V50HZ)	3 pole, 24VAC, No auxiliaries	121.89
DILM50(110V50HZ)	3 pole, 110VAC, No auxiliaries	121.89
DILM50(230V50HZ)	3 pole, 230VAC, No auxiliaries	121.89
DILM50(400V50HZ)	3 pole, 400VAC, No auxiliaries	121.89
DILM50(RDC24)	3 pole, 24VDC, No auxiliaries	187.08



Overload Relays for DILM40 - DILM65 Contactors

REF NO	Current Range	Fuse Size	PRICE
ZB65-10	6-10A	20A	46.92
ZB65-16	10-16A	35A	46.92
ZB65-24	16-24A	50A	46.92
ZB65-40	24-32A	80A	63.81
ZB65-57	40-57A	125A	85.24
ZB65-65	50-65A	160A	85.24



Auxiliaries for DILM40 - DILM170 Contactors

REF NO	Description	PRICE
DILM150-XHI20	Top mounting auxiliary 2 x N/O	6.13
DILM150-XHI11	Top mounting auxiliary 1 x N/O, 1 x N/C	6.13
DILM150-XHI02	Top mounting auxiliary 2 x N/C	6.13
DILM150-XHI40	Top mounting auxiliary 4 x N/O	10.37
DILM150-XHI31	Top mounting auxiliary 3 x N/O, 1 x N/C	10.37
DILM150-XHI22	Top mounting auxiliary 2 x N/O, 2 x N/C	10.37
DILM150-XHI13	Top mounting auxiliary 1 x N/O, 3 x N/C	10.37
DILM150-XHI04	Top mounting auxiliary 4 x N/C	10.37
DILM150-XHIV22	Top mounting auxiliary 2 x N/O (1 EM), 2 x N/C (1 LB)	10.37

Accessories for DILM40 - DILM65 Contactors

REF NO	Description	PRICE
DILM65-XMV	Mechanical interlock	10.97
DILM65-XSL	Star Delta connection kit	29.28

DILM80 37kW 80A Contactor

Rated thermal current AC3 80A
 Rated thermal current AC1 90A
 90mm Wide x 170mm High x 160mm Deep

REF NO	Description	PRICE
DILM80(24V50HZ)	3 pole, 24VAC, No auxiliaries	202.23
DILM80(110V50HZ)	3 pole, 110VAC, No auxiliaries	202.23
DILM80(230V50HZ)	3 pole, 230VAC, No auxiliaries	202.23
DILM80(400V50HZ)	3 pole, 400VAC, No auxiliaries	202.23
DILM80(RDC24)	3 pole, 24VDC, No auxiliaries	287.42



DILM95 45kW 95A Contactor

Rated thermal current AC3 95A
 Rated thermal current AC1 110A
 90mm Wide x 170mm High x 160mm Deep

REF NO	Description	PRICE
DILM95(24V50HZ)	3 pole, 24VAC, No auxiliaries	277.22
DILM95(110V50HZ)	3 pole, 110VAC, No auxiliaries	277.22
DILM95(230V50HZ)	3 pole, 230VAC, No auxiliaries	277.22
DILM95(400V50HZ)	3 pole, 400VAC, No auxiliaries	277.22
DILM95(RDC24)	3 pole, 24VDC, No auxiliaries	347.99

DILM115 55kW 115A Contactor

Rated thermal current AC3 115A
 Rated thermal current AC1 130A
 90mm Wide x 170mm High x 160mm Deep

REF NO	Description	PRICE
DILM115(RAC24)	3 pole, 24VAC, No auxiliaries	359.22
DILM115(RAC120)	3 pole, 110VAC, No auxiliaries	359.22
DILM115(RAC240)	3 pole, 230VAC, No auxiliaries	359.22
DILM115(RAC440)	3 pole, 400VAC, No auxiliaries	359.22
DILM115(RDC24)	3 pole, 24VDC, No auxiliaries	359.22

DILM150 75kW 160A Contactor

Rated thermal current AC3 150A
 Rated thermal current AC1 160A
 90mm Wide x 170mm High x 160mm Deep

REF NO	Description	PRICE
DILM150(RAC24)	3 pole, 24VAC, No auxiliaries	410.62
DILM150(RAC120)	3 pole, 110VAC, No auxiliaries	410.62
DILM150(RAC240)	3 pole, 230VAC, No auxiliaries	410.62
DILM150(RAC440)	3 pole, 400VAC, No auxiliaries	410.62
DILM150(RDC24)	3 pole, 24VDC, No auxiliaries	410.62

DILM170 90kW 170A Contactor

Rated thermal current AC3 170A
 Rated thermal current AC1 185A
 90mm Wide x 170mm High x 160mm Deep

REF NO	Description	PRICE
DILM170(RAC24)	3 pole, 24VAC, No auxiliaries	459.86
DILM170(RAC120)	3 pole, 110VAC, No auxiliaries	459.86
DILM170(RAC240)	3 pole, 230VAC, No auxiliaries	459.86
DILM170(RAC440)	3 pole, 400VAC, No auxiliaries	459.86
DILM170(RDC24)	3 pole, 24VDC, No auxiliaries	459.86

Overload Relays for DILM80 - DILM170 Contactors

REF NO	Current Range	Fuse Size	PRICE
ZB150-35	25-35A	80A	110.29
ZB150-50	35-50A	125A	125.44
ZB150-70	50-70A	160A	128.86
ZB150-100	70-100A	200A	160.79
ZB150-125	95-125A	250A	182.43
ZB150-150	120-150A	315A	198.42
ZB150-175	145-175A	355A	198.42



Accessories for DILM80 - DILM170 Contactors

REF NO	Description	PRICE
DILM150-XMV	Mechanical interlock	68.38
DILM150-XSL	Star Delta connection kit	148.30



Part of the xStart motor protection range, the PKZM0 has become a global brand for motor protective circuit breakers providing isolation, short circuit protection and thermal protection in one single component.

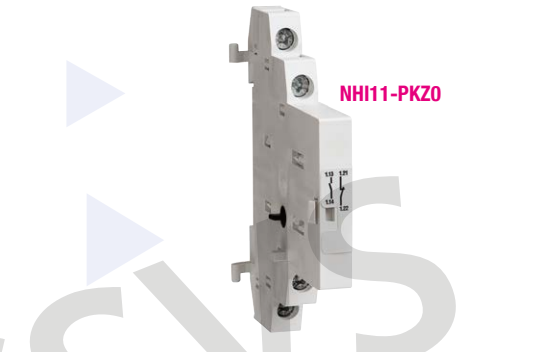
The range includes both rotary and pushbutton actuated motor protective circuit breakers. The rotary handle gives a clear and immediate indications of ON/OFF positions even from a distance, complying as a switch disconnecter in accordance with IEC947-2/3 and IEC204-1. The lockable rotary handle and door coupling handle options enable the device to be locked in the OFF position for extra safety.

PKZM01 Pushbutton Breaker
45mm wide x 93mm high

REF NO	Thermal Setting Range	Motor Rating	Short Circuit Release	PRICE
PKZM01-0.16	0.1 - 0.16A	0.02kW	2.2A	43.12
PKZM01-0.25	0.16 - 0.25A	0.06kW	3.5A	43.12
PKZM01-0.4	0.25 - 0.4A	0.09kW	5.6A	43.12
PKZM01-0.63	0.4 - 0.63A	0.12kW	8.8A	44.67
PKZM01-1	0.63 - 1A	0.25kW	14A	50.53
PKZM01-1.6	1 - 1.6A	0.55kW	22A	50.53
PKZM01-2.5	1.6 - 2.5A	0.75kW	35A	51.23
PKZM01-4	2.5 - 4A	1.5kW	56A	51.23
PKZM01-6.3	4 - 6.3A	2.2kW	88A	51.23
PKZM01-10	6.3 - 10A	4kW	140A	59.50
PKZM01-12	8 - 12A	5.5kW	168A	59.50
PKZM01-16	10 - 16A	7.5kW	224A	59.50



PKZM01-2.5



NHI11-PKZ0

Auxiliaries for PKZM01, PKZM0 & PKZM4

REF NO	Description	PRICE
NHI11-PKZ0	Side mounting auxiliary 1 x N/O, 1 x N/C	9.63
NHI12-PKZ0	Side mounting auxiliary 1 x N/O, 2 x N/C	15.68
NHI21-PKZ0	Side mounting auxiliary 2 x N/O, 1 x N/C	15.68
NHI-E-11-PKZ0	Front mounting auxiliary 1 x N/O, 1 x N/C	8.63
NHI-E-10-PKZ0	Front mounting auxiliary 1 x N/O	7.42
AGM2-01-PKZ0	Side mounting trip-indicating auxiliary contact 2 x N/C	16.35
AGM2-10-PKZ0	Side mounting trip-indicating auxiliary contact 2 x N/O	16.35



CI-PKZ01-G

CI-PKZ01-PVT

Insulated Enclosures for PKZM01

REF NO	Description	PRICE
CI-PKZ01-G	Surface mounted IP65 Enclosure	15.75
CI-PKZ01-PVT	Surface mounted IP65 Enclosure with Stay Put Emergency Stop	33.39

PKZM0 Rotary Handle Breaker
45mm wide x 93mm high

REF NO	Thermal Setting Range	Motor Rating	Short Circuit Release	PRICE
PKZM0-0.16	0.1 - 0.16A	0.02kW	2.2A	52.21
PKZM0-0.25	0.16 - 0.25A	0.06kW	3.5A	52.21
PKZM0-0.4	0.25 - 0.4A	0.09kW	5.6A	52.21
PKZM0-0.63	0.4 - 0.63A	0.12kW	8.8A	55.74
PKZM0-1	0.63 - 1A	0.25kW	14A	62.67
PKZM0-1.6	1 - 1.6A	0.55kW	22A	62.67
PKZM0-2.5	1.6 - 2.5A	0.75kW	35A	62.67
PKZM0-4	2.5 - 4A	1.5kW	56A	62.67
PKZM0-6.3	4 - 6.3A	2.2kW	88A	62.67
PKZM0-10	6.3 - 10A	4kW	140A	73.09
PKZM0-12	8 - 12A	5.5kW	168A	73.09
PKZM0-16	10 - 16A	7.5kW	224A	73.09
PKZM0-20	16 - 20A	9kW	280A	79.40
PKZM0-25	20 - 25A	12.5kW	350A	95.09
PKZM0-32	25 - 32A	15kW	448A	120.02



PKZM0-4

PKZM4 Rotary Handle Breaker
55mm wide x 140mm high

REF NO	Thermal Setting Range	Motor Rating	Short Circuit Release	PRICE
PKZM4-16	11 - 16A	7.5kW	224A	112.12
PKZM4-25	16 - 25A	12.5kW	350A	115.37
PKZM4-32	25 - 32A	15kW	448A	137.25
PKZM4-40	32 - 40A	20kW	560A	159.18
PKZM4-50	40 - 50A	25kW	700A	181.09
PKZM4-58	50 - 58A	30kW	812A	186.29
PKZM4-63	55 - 65A	34kW	882A	191.43

Shunt & Undervoltage Trips for PKZM01, PKZM0 & PKZM4

REF NO	Description	PRICE
Left side mounting Shunt Trips		
A-PKZ0(24V50HZ)	24V AC Shunt trip	29.99
A-PKZ0(110V50HZ)	110V AC Shunt trip	29.99
A-PKZ0(230V50HZ)	230V AC Shunt trip	29.99
A-PKZ0(400V50HZ)	400V AC Shunt trip	29.99
A-PKZ0(24VDC)	24V DC Shunt trip	35.89
Left side mounting Undervoltage Trips		
U-PKZ0(24V50HZ)	24V AC Undervoltage trip	28.56
U-PKZ0(110V50HZ)	110V AC Undervoltage trip	28.56
U-PKZ0(230V50HZ)	230V AC Undervoltage trip	28.56
U-PKZ0(400V50HZ)	400V AC Undervoltage trip	28.56



U-PKZ0***

NEW!

IP56
RAL7035

Pico Enclosures

Take a look at the full range
See page 94



Lovato offer a comprehensive range of 3 pole contactors up to 630A ; IEC AC3 duty and 4 pole contactors up to 1600A; IEC AC1 duty.

- 4 Terminal Coil enables connecting cables to be coupled to the coil both on the line and load side of the contactor
- Built in Surge Suppressor is standard on the BF09 - BF38 contactors
- Low Consumption 2.4W DC coil enabling direct control by PLC outputs
- Full range of auxiliary blocks, overload relays and other accessories available

A footprint of 45mm width up to 38A is standard; from 40A to 80A the width is just 55mm and the 95A and 110A are 75mm wide. All other sizes are as indicated throughout the catalogue.



BF0910***

Lovato BF09 - 4.2kW 9A Contactor

Rated Thermal Current AC3: 9A
 Rated Thermal Current AC1: 20A
 AC3 Maximum Power 3 Phase 380 - 415V: 4.2kW
 45mm Wide x 81mm High x 81mm Deep

REF NO	Description	PRICE
BF0910A024	3 Pole, 24VAC, 1 x N/O Auxiliary	32.78
BF0910A110	3 Pole, 110VAC, 1 x N/O Auxiliary	32.78
BF0910A230	3 Pole, 230VAC, 1 x N/O Auxiliary	32.78
BF0910A400	3 Pole, 400VAC, 1 x N/O Auxiliary	32.78
BF0910L024	3 Pole, 24VDC; 2.4W DC coil; 1 x N/O Auxiliary	58.56

Replace the 10 in the part number with 01 to order a contactor with a normally closed auxiliary.

For example:
 BF0910A24 becomes BF0901A24



BF1040



BF1011

Lovato BF12 - 5.7kW 12A Contactor

Rated Thermal Current AC3: 12A
 Rated Thermal Current AC1: 23A
 AC3 Maximum Power 3 Phase 380 - 415V: 5.7kW
 45mm Wide x 81mm High x 81mm Deep

REF NO	Description	PRICE
BF1210A024	3 Pole, 24VAC, 1 x N/O Auxiliary	40.30
BF1210A110	3 Pole, 110VAC, 1 x N/O Auxiliary	40.30
BF1210A230	3 Pole, 230VAC, 1 x N/O Auxiliary	40.30
BF1210A400	3 Pole, 400VAC, 1 x N/O Auxiliary	40.30
BF1210L024	3 Pole, 24VDC; 2.4W DC coil; 1 x N/O Auxiliary	59.18

Lovato BF18 - 7.5kW 18A Contactor

Rated Thermal Current AC3: 18A
 Rated Thermal Current AC1: 26A
 AC3 Maximum Power 3 Phase 380 - 415V: 7.5kW
 45mm Wide x 81mm High x 81mm Deep

REF NO	Description	PRICE
BF1810A024	3 Pole, 24VAC, 1 x N/O Auxiliary	52.99
BF1810A110	3 Pole, 110VAC, 1 x N/O Auxiliary	52.99
BF1810A230	3 Pole, 230VAC, 1 x N/O Auxiliary	52.99
BF1810A400	3 Pole, 400VAC, 1 x N/O Auxiliary	52.99
BF1810L024	3 Pole, 24VDC; 2.4W DC coil; 1 x N/O Auxiliary	99.69

Lovato BF25 - 12.5kW 25A Contactor

Rated Thermal Current AC3: 25A
 Rated Thermal Current AC1: 26A
 AC3 Maximum Power 3 Phase 380 - 415V: 12.5kW
 45mm Wide x 81mm High x 81mm Deep

REF NO	Description	PRICE
BF2510A024	3 Pole, 24VAC, 1 x N/O Auxiliary	68.41
BF2510A110	3 Pole, 110VAC, 1 x N/O Auxiliary	68.41
BF2510A230	3 Pole, 230VAC, 1 x N/O Auxiliary	68.41
BF2510A400	3 Pole, 400VAC, 1 x N/O Auxiliary	68.41
BF2510L024	3 Pole, 24VDC; 2.4W DC coil; 1 x N/O Auxiliary	92.81

Lovato BF26 - 13kW 26A Contactor

Rated Thermal Current AC3: 25A
 Rated Thermal Current AC1: 36A
 AC3 Maximum Power 3 Phase 380 - 415V: 13kW
 45mm Wide x 90mm High x 90mm Deep

REF NO	Description	PRICE
BF2600A024	3 Pole, 24VAC; No Auxiliary	73.25
BF2600A110	3 Pole, 110VAC; No Auxiliary	73.25
BF2600A230	3 Pole, 230VAC; No Auxiliary	73.25
BF2600A400	3 Pole, 400VAC; No Auxiliary	73.25
BF2600L024	3 Pole, 24VDC; 2.4W DC coil; No Auxiliary	97.62

Lovato BF32 - 16kW 32A Contactor

Rated Thermal Current AC3: 32A
 Rated Thermal Current AC1: 45A
 AC3 Maximum Power 3 Phase 380 - 415V: 16kW
 45mm Wide x 90mm High x 90mm Deep

REF NO	Description	PRICE
BF3200A024	3 Pole, 24VAC; No Auxiliary	82.36
BF3200A110	3 Pole, 110VAC; No Auxiliary	82.36
BF3200A230	3 Pole, 230VAC; No Auxiliary	82.36
BF3200A400	3 Pole, 400VAC; No Auxiliary	82.36
BF3200L024	3 Pole, 24VDC; 2.4W DC coil; No Auxiliary	124.14



BF2600A***

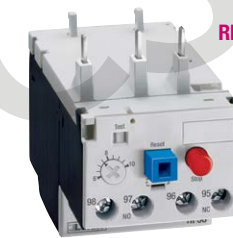
Lovato BF38 - 18.5kW 38A Contactor

Rated Thermal Current AC3: 38A
 Rated Thermal Current AC1: 45A
 AC3 Maximum Power 3 Phase 380 - 415V: 18.5kW
 45mm Wide x 90mm High x 90mm Deep

REF NO	Description	PRICE
BF3800A024	3 Pole, 24VAC; No Auxiliary	91.77
BF3800A110	3 Pole, 110VAC; No Auxiliary	91.77
BF3800A230	3 Pole, 230VAC; No Auxiliary	91.77
BF3800A400	3 Pole, 400VAC; No Auxiliary	91.77
BF3800L024	3 Pole, 24VDC; 2.4W DC coil; No Auxiliary	138.63

Overload Relays for BF09 - BF38 Contactors

REF NO	Description	PRICE
RF380016	Overload Relay 0.1 - 0.16A	41.61
RF380025	Overload Relay 0.16 - 0.25A	41.61
RF380040	Overload Relay 0.25 - 0.40A	41.61
RF380063	Overload Relay 0.4 - 0.63A	41.61
RF380100	Overload Relay 0.6 - 1A	41.61
RF380160	Overload Relay 1 - 1.6A	41.61
RF380250	Overload Relay 1.6 - 2.5A	41.61
RF380400	Overload Relay 2.5 - 4A	41.61
RF380650	Overload Relay 4 - 6.5A	41.61
RF381000	Overload Relay 6.3 - 10A	41.61
RF381400	Overload Relay 9 - 14A	41.61
RF381800	Overload Relay 13 - 18A	46.83
RF382300	Overload Relay 17 - 23A	46.83
RF382500	Overload Relay 20 - 25A	46.83
RF383200	Overload Relay 24 - 32A	73.25
RF383800	Overload Relay 32 - 38A	73.25
RFX3804	Remote Mounting Kit for RF38 Overloads	8.49
BFX5000	Mechanical Interlock for BF09 - BF38	14.29



RF38***



BFX5000

Auxiliaries & Timers for BF09 - BF110 Contactors

REF NO	Description	PRICE
BFX1011	Top mounting auxiliary 1 x N/O, 1 x N/C	9.65
BFX1020	Top mounting auxiliary 2 x N/O	9.65
BFX1031	Top mounting auxiliary 3 x N/O, 1 x N/C	18.90
BFX1022	Top mounting auxiliary 2 x N/O, 2 x N/C	18.90
BFX1040	Top mounting auxiliary 4 x N/O	18.90
BFX1002	Top mounting auxiliary 2 x N/C	9.65
BFX1013	Top mounting auxiliary 1 x N/O, 3 x N/C	18.90
BFX1004	Top mounting auxiliary 4 x N/C	18.90
Side Auxiliaires Only Suitable for BF09 - BF50		
BFX1211	Side mounting auxiliary 1 x N/O, 1 x N/C	14.93
BFX1220	Side mounting auxiliary 2 x N/O	14.93
BFX1202	Side mounting auxiliary 2 x N/C	14.93
11G48530	30 Second Pneumatic Timer Delay On	79.22
11G48630	30 Second Pneumatic Timer Delay Off	79.22

Lovato BF40 - 18.5kW 40A Contactor

Rated Thermal Current AC3: 40A
 Rated Thermal Current AC1: 60A
 AC3 Maximum Power 3 Phase 380 - 415V: 18.5kW
 55mm Wide x 136mm High x 114.5mm Deep

REF NO	Description	PRICE
BF4000A024	3 Pole, 24VAC, No auxiliary	100.01
BF4000A110	3 Pole, 110VAC, No auxiliary	100.01
BF4000A230	3 Pole, 230VAC, No auxiliary	100.01
BF4000A400	3 Pole, 400VAC, No auxiliary	100.01
BF4000E024	3 Pole, 24V AC/DC; 2.4W DC coil; AC1: 60A	171.56

Lovato BF65 - 30kW 65A Contactor

Rated Thermal Current AC3: 65A
 Rated Thermal Current AC1: 80A
 AC3 Maximum Power 3 Phase 380 - 415V: 30kW
 55mm Wide x 136mm High x 114.5mm Deep

REF NO	Description	PRICE
BF6500A024	3 Pole, 24VAC, No auxiliary	176.49
BF6500A110	3 Pole, 110VAC, No auxiliary	176.49
BF6500A230	3 Pole, 230VAC, No auxiliary	176.49
BF6500A400	3 Pole, 400VAC, No auxiliary	176.49
BF6500E024	3 Pole, 24V AC/DC; 2.4W DC coil; AC1: 70A	278.35

Lovato BF80 - 45kW 80A Contactor

Rated Thermal Current AC3: 80A
 Rated Thermal Current AC1: 95A
 AC3 Maximum Power 3 Phase 380 - 415V: 45kW
 55mm Wide x 136mm High x 114.5mm Deep

REF NO	Description	PRICE
BF8000A024	3 Pole, 24VAC, No auxiliary	197.66
BF8000A110	3 Pole, 110VAC, No auxiliary	197.66
BF8000A230	3 Pole, 230VAC, No auxiliary	197.66
BF8000A400	3 Pole, 400VAC, No auxiliary	197.66
BF8000E024	3 Pole, 24V AC/DC; 2.4W DC coil; AC1: 80A	323.18



BF5000A**



RF823300

11G270

Lovato BF50 - 22kW 50A Contactor

Rated Thermal Current AC3: 50A
 Rated Thermal Current AC1: 75A
 AC3 Maximum Power 3 Phase 380 - 415V: 22kW
 55mm Wide x 136mm High x 114.5mm Deep

REF NO	Description	PRICE
BF5000A024	3 Pole, 24VAC, No auxiliary	124.72
BF5000A110	3 Pole, 110VAC, No auxiliary	124.72
BF5000A230	3 Pole, 230VAC, No auxiliary	124.72
BF5000A400	3 Pole, 400VAC, No auxiliary	124.72
BF5000E024	3 Pole, 24V AC/DC; 2.4W DC coil; AC1: 70A	217.88

Overload Relays for BF40 - BF80 Contactors

REF NO	Description	PRICE
RF823300	Overload Relay 20-33A for BF40- BF80	86.40
RF824200	Overload Relay 28-42A for BF40- BF80	93.70
RF825000	Overload Relay 35-50A for BF40- BF80	106.22
RF826500	Overload Relay 46-65A for BF40- BF80	106.22
RF828200	Overload Relay 60-82A for BF40- BF80	121.82
11G270	Remote Mounting Kit for RF82 Overloads	34.23
BFX5303	Top Mount Mechanical Interlock for BF40 - BF80 Contactors	18.77

Lovato BF95 - 50kW 95A Contactor

Rated Thermal Current AC3: 95A
 Rated Thermal Current AC1: 125A
 AC3 Maximum Power 3 Phase 380 - 415V: 50kW
 75mm Wide x 124mm High x 113.5mm Deep

REF NO	Description	PRICE
11BF950024	3 Pole, 24VAC, No auxiliary	369.97
11BF9500110	3 Pole, 110VAC, No auxiliary	369.97
11BF9500230	3 Pole, 230VAC, No auxiliary	369.97
11BF9500400	3 Pole, 400VAC, No auxiliary	369.97
11BF95C0024	3 Pole, 24VDC; 2.4W DC coil; AC1: 100A	444.33

Lovato BF110 - 61kW 110A Contactor

Rated Thermal Current AC3: 110A
 Rated Thermal Current AC1: 125A
 AC3 Maximum Power 3 Phase 380 - 415V: 61kW
 75mm Wide x 124mm High x 150.5mm Deep

REF NO	Description	PRICE
11BF1100024	3 Pole, 24VAC, No auxiliary	418.16
11BF11000110	3 Pole, 110VAC, No auxiliary	418.16
11BF11000230	3 Pole, 230VAC, No auxiliary	418.16
11BF11000400	3 Pole, 400VAC, No auxiliary	418.16
11BF110C0024	3 Pole, 24VDC; 2.4W DC coil; AC1: 100A	508.06



BF8000A***

Overload Relays for BF95 & BF110 Contactors

REF NO	Description	PRICE
11RF95382	Overload Relay 60 - 82A for BF95 & BF110	113.69
11RF95395	Overload Relay 70 - 95A for BF95 & BF110	123.32
11RF953110	Overload Relay 90 - 110A for BF95 & BF110	158.71
11G270	Remote Mounting Kit for RF95 Overloads	34.23
11G2692	Mechanical Interlock for BF95 & BF110	20.72



11RF953***

11G486*

Auxiliaries & Timers for BF09 - BF110 Contactors

REF NO	Description	PRICE
BFX1011	Top mounting auxiliary 1 x N/O, 1 x N/C	9.65
BFX1020	Top mounting auxiliary 2 x N/O	9.65
BFX1031	Top mounting auxiliary 3 x N/O, 1 x N/C	18.90
BFX1022	Top mounting auxiliary 2 x N/O, 2 x N/C	18.90
BFX1040	Top mounting auxiliary 4 x N/O	18.90
BFX1002	Top mounting auxiliary 2 x N/C	9.65
BFX1013	Top mounting auxiliary 1 x N/O, 3 x N/C	18.90
BFX1004	Top mounting auxiliary 4 x N/C	18.90
Side Auxiliares Only Suitable for BF09 - BF80		
BFX1211	Side mounting auxiliary 1 x N/O, 1 x N/C	14.93
BFX1220	Side mounting auxiliary 2 x N/O	14.93
BFX1202	Side mounting auxiliary 2 x N/C	14.93
11G48530	30 Second Pneumatic Timer Delay On	79.22
11G48630	30 Second Pneumatic Timer Delay Off	79.22

Lovato B115 - 61kW 110A Contactor

Rated Thermal Current AC3: 110A
 Rated Thermal Current AC1: 150A
 AC3 Maximum Power 3 Phase 380 - 415V: 61kW
 120mm Wide x 170mm High x 184mm Deep

REF NO	Description	PRICE
11B1150024	3 Pole, 24V AC/DC	461.39
11B11500110	3 Pole, 110V AC/DC	461.39
11B11500220	3 Pole, 230V AC/DC	461.39
11B11500380	3 Pole, 400V AC/DC	461.



B11500***



RF200***

Overload Relays for B115 - B180 Contactors

REF NO	Description	PRICE
RF200100	Overload Relay 60 - 100A for B115 - B180	287.89
RF200125	Overload Relay 75 - 125A for B115 - B180	292.52
RF200150	Overload Relay 90 - 150A for B115 - B180	303.33
RF200200	Overload Relay 120 - 200A for B115 - B180	314.10
11G372	Set of links for connecting contactor to RF200 overload relay	20.35
11G355	Mechanical Interlock for B115 - B630 Contactors	17.72

Lovato B145 - 80kW 150A Contactor

Rated Thermal Current AC3: 150A
 Rated Thermal Current AC1: 235A
 AC3 Maximum Power 3 Phase 380 - 415V: 80kW
 120mm Wide x 170mm High x 184mm Deep

REF NO	Description	PRICE
11B1450024	3 Pole, 24V AC/DC	522.40
11B14500110	3 Pole, 110V AC/DC	522.40
11B14500220	3 Pole, 230V AC/DC	522.40
11B14500380	3 Pole, 400V AC/DC	522.40

Lovato B180 - 100kW 185A Contactor

Rated Thermal Current AC3: 185A
 Rated Thermal Current AC1: 250A
 AC3 Maximum Power 3 Phase 380 - 415V: 100kW
 120mm Wide x 170mm High x 184mm Deep

REF NO	Description	PRICE
11B1800024	3 Pole, 24V AC/DC	688.73
11B18000110	3 Pole, 110V AC/DC	688.73
11B18000220	3 Pole, 230V AC/DC	688.73
11B18000380	3 Pole, 400V AC/DC	688.73

Auxiliaries for B115 - B630 Contactors

REF NO	Description	PRICE
11G350	Side mounting auxiliary 2 x N/O + 1 x N/C or 1 x N/O + 2 x N/C (reversible)	35.46
11G354	Side mounting auxiliary 1 x N/O + 1 x N/C	21.17

A maximum of 4 auxiliaries can be fitted to the contactor



11G350 / 11G354

Lovato B250 - 140kW 265A Contactor

Rated Thermal Current AC3: 265A
 Rated Thermal Current AC1: 350A
 AC3 Maximum Power 3 Phase 380 - 415V: 140kW
 145mm Wide x 204mm High x 225mm Deep

REF NO	Description	PRICE
11B2500024	3 Pole, 24V AC/DC	1071.01
11B25000110	3 Pole, 110V AC/DC	1071.01
11B25000220	3 Pole, 230V AC/DC	1071.01
11B25000380	3 Pole, 400V AC/DC	1071.01

Lovato B310 - 170kW 320A Contactor

Rated Thermal Current AC3: 320A
 Rated Thermal Current AC1: 450A
 AC3 Maximum Power 3 Phase 380 - 415V: 170kW
 145mm Wide x 204mm High x 225mm Deep

REF NO	Description	PRICE
11B3100024	3 Pole, 24V AC/DC	1331.39
11B31000110	3 Pole, 110V AC/DC	1331.39
11B31000220	3 Pole, 230V AC/DC	1331.39
11B31000380	3 Pole, 400V AC/DC	1331.39

Lovato B400 - 225kW 420A Contactor

Rated Thermal Current AC3: 420A
 Rated Thermal Current AC1: 550A
 AC3 Maximum Power 3 Phase 380 - 415V: 225kW
 145mm Wide x 204mm High x 225mm Deep

REF NO	Description	PRICE
11B4000024	3 Pole, 24V AC/DC	1630.10
11B40000110	3 Pole, 110V AC/DC	1630.10
11B40000220	3 Pole, 230V AC/DC	1630.10
11B40000380	3 Pole, 400V AC/DC	1630.10

Overload Relays for B250 - B400 Contactors

REF NO	Description	PRICE
RF420250	Overload Relay 150 - 250A for B250 - B400	389.95
RF420300	Overload Relay 180 - 300A for B250 - B400	400.83
RF420420	Overload Relay 250 - 420A for B250 - B400	411.61
11G376	Set of links for connecting contactor to RF420 overload relay	31.34
11G355	Mechanical Interlock for B115 - B630 Contactors	17.72



B63000***

Lovato B500 - 290kW 520A Contactor

Rated Thermal Current AC3: 520A
 Rated Thermal Current AC1: 700A
 AC3 Maximum Power 3 Phase 380 - 415V: 290kW
 194mm Wide x 270mm High x 263mm Deep

REF NO	Description	PRICE
11B50000110	3 Pole, 110V AC/DC	2038.00
11B50000220	3 Pole, 230V AC/DC	2038.00
11B50000380	3 Pole, 400V AC/DC	2038.00

Lovato B630 - 335kW 630A Contactor

Rated Thermal Current AC3: 630A
 Rated Thermal Current AC1: 800A
 AC3 Maximum Power 3 Phase 380 - 415V: 335kW
 194mm Wide x 270mm High x 263mm Deep

REF NO	Description	PRICE
11B63000110	3 Pole, 110V AC/DC	3467.37
11B63000220	3 Pole, 230V AC/DC	3467.37
11B63000380	3 Pole, 400V AC/DC	3467.37



RF400***



Lovato's range of 4 Pole Contactors extend from 9A to 1600A with an AC coil and 1000A with a DC coil - IEC operating current Ith (AC1) ≤ 40°C

Lovato 4 Pole Contactors - AC Coil

REF NO	Description	PRICE
BF09T4A**	25A; 16kW; AC1 - 4 N/O Poles 45mmW x 81mmH x 81mmD	38.36
BF12T4A**	28A; 18kW; AC1 - 4 N/O Poles 45mmW x 81mmH x 81mmD	48.91
BF18T4A**	32A; 21kW; AC1 - 4 N/O Poles 45mmW x 81mmH x 81mmD	57.03
BF26T4A**	45A; 30kW; AC1 - 4 N/O Poles 61mmW x 90mmH x 90mmD	85.75
BF38T4A**	55A; 36kW; AC1 - 4 N/O Poles 61mmW x 90mmH x 90mmD	116.48
BF40T4A**	70A; 46kW; AC1 - 4 N/O Poles 73mmW x 135mmH x 115mmD	122.37
BF50T4A**	90A; 59kW; AC1 - 4 x N/O Poles 73mmW x 135mmH x 115mmD	194.13
BF65T4A**	100A; 65kW; AC1 - 4 x N/O Poles 73mmW x 135mmH x 115mmD	247.08
BF80T4A**	115A; 76kW; AC1 - 4 x N/O Poles 73mmW x 135mmH x 115mmD	288.27



BF50T4E24

Lovato 4 Pole Contactors - Low Consumption DC Coil

REF NO	Description	PRICE
BF09T4L024	25A; 16kW; AC1 - 4 N/O Poles 24VDC Low Consumption 2.4W Coil 45mmW x 81mmH x 99mmD	66.81
BF18T4L024	32A; 21kW; AC1 - 4 N/O Poles 24VDC Low Consumption 2.4W Coil 45mmW x 81mmH x 99mmD	72.76
BF26T4L024	45A; 30kW; AC1 - 4 N/O Poles 24VDC Low Consumption 2.4W Coil 61mmW x 90mmH x 107.5mmD	99.55
BF38T4L024	55A; 36kW; AC1 - 4 N/O Poles 24VDC Low Consumption 2.4W Coil 61mmW x 90mmH x 107.5mmD	199.11
BF65T4E024	80A; 72kW; AC1 - 4 x N/O Poles 24V AC/DC Coil 73mmW x 135mmH x 115mmD	327.33
BF80T4E024	90A; 76kW; AC1 - 4 x N/O Poles 24V AC/DC Coil 73mmW x 135mmH x 115mmD	404.48

Lovato 4 Pole Contactors - AC/DC Coil

REF NO	Description	PRICE
B115400**	160A; 98kW; AC1 - 4 N/O Poles 160mmW x 170mmH x 184mmD	609.41
B145400**	250A; 150kW; AC1 - 4 N/O Poles 160mmW x 170mmH x 184mmD	688.86
B180400**	275A; 160kW; AC1 - 4 N/O Poles 160mmW x 170mmH x 184mmD	777.07
B250400**	350A; 214kW; AC1 - 4 N/O Poles 192mmW x 204mmH x 225mmD	1351.63
B310400**	450A; 270kW; AC1 - 4 N/O Poles 192mmW x 204mmH x 225mmD	1696.09
B400400**	550A; 345kW; AC1 - 4 N/O Poles 192mmW x 204mmH x 225mmD	2050.77

** Add Coil Voltage - 24; 110; 220; 380

Contactors with 2 x N/O + 2 x N/C or 4 x N/C contacts are available in certain sizes. Please ask for further details!



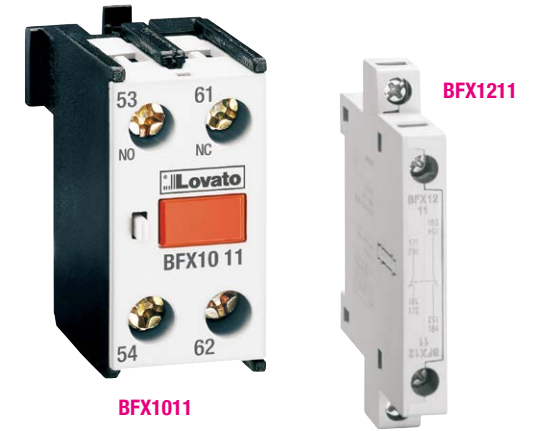
B115400***

Lovato 4 Pole Contactors - AC/DC Coil

REF NO	Description	PRICE
B500400**	700A; 438kW; AC1 - 4 N/O Poles 259mmW x 270mmH x 263mmD	2844.94
B630400**	800A; 500kW; AC1 - 4 N/O Poles 259mmW x 270mmH x 263mmD	4041.89

** Add Coil Voltage - 110; 220; 380

Note: 24V is not available in these sizes



BFX1011

BFX1211

Auxiliaries & Timers for BF09 - BF110 Contactors

REF NO	Description	PRICE
BFX1011	Top mounting auxiliary 1 x N/O, 1 x N/C	9.65
BFX1020	Top mounting auxiliary 2 x N/O	9.65
BFX1031	Top mounting auxiliary 3 x N/O, 1 x N/C	18.90
BFX1022	Top mounting auxiliary 2 x N/O, 2 x N/C	18.90
BFX1040	Top mounting auxiliary 4 x N/O	18.90
BFX1002	Top mounting auxiliary 2 x N/C	9.65
BFX1013	Top mounting auxiliary 1 x N/O, 3 x N/C	18.90
BFX1004	Top mounting auxiliary 4 x N/C	18.90

Side Auxiliares Only Suitable for BF09 - BF80

BFX1211	Side mounting auxiliary 1 x N/O, 1 x N/C	14.93
BFX1220	Side mounting auxiliary 2 x N/O	14.93
BFX1202	Side mounting auxiliary 2 x N/C	14.93



G350 / G354

Auxiliaries for B115 - B630 Contactors

REF NO	Description	PRICE
11G350	Side mounting auxiliary 2 x N/O + 1 x N/C or 1 x N/O + 2 x N/C (reversible)	35.46
11G354	Side mounting auxiliary 1 x N/O + 1 x N/C	21.17



BF26T4A230



SM1P and SM1R/ SM2R/SM3R are modern circuit breakers with thermal and magnetic trip releases and a high breaking capacity. Motor control and protection. The pushbutton range extends from 0.02kW to 20kW whilst the rotary range extends from 0.02kW to 55kW.

The rotary handle gives a clear and immediate indications of ON/OFF positions even from a distance, complying as a switch disconnecter in accordance with IEC/EN60947-1/2 and IEC/EN60947-4-1. The lockable rotary handle and door coupling handle options enable the device to be locked in the OFF position for extra safety.



SM1P Pushbutton Breaker 45mm wide x 90mm high

REF NO	Thermal Setting Range	Motor Rating	PRICE
SM1P 0016	0.1 - 0.16A	0.02kW	36.04
SM1P 0025	0.16 - 0.25A	0.06kW	35.18
SM1P 0040	0.25 - 0.4A	0.09kW	37.24
SM1P 0063	0.4 - 0.63A	0.12kW	42.19
SM1P 0100	0.63 - 1A	0.25kW	39.99
SM1P 0160	1 - 1.6A	0.55kW	42.37
SM1P 0250	1.6 - 2.5A	0.75kW	44.26
SM1P 0400	2.5 - 4A	1.5kW	44.26
SM1P 0650	4 - 6.5A	2.2kW	44.26
SM1P 1000	6.3 - 10A	4kW	49.62
SM1P 1400	9 - 14A	5.5kW	51.59
SM1P 1800	13 - 18A	7.5kW	51.59
SM1P 2300	17 - 23A	9kW	53.75
SM1P 2500	20 - 25A	12.5kW	65.41
SM1P 3200	24 - 32A	15kW	82.69
SM1P 4000	30 - 40A	20kW	98.97

Insulated Enclosures for SM1P

REF NO	Description	PRICE
SM1Z17 11P	Surface mounted IP65 Enclosure	31.14
SM1Z17 12P	Surface mounted IP65 Enclosure with Emergency Stop	65.72



SM1Z17 11P

SM1Z17 12P

Auxiliaries for SM1P & SM1R

REF NO	Description	PRICE
Front mounting Auxiliaries		
SM1X11 20	Front mounting auxiliary 2 x N/O	7.61
SM1X11 11	Front mounting auxiliary 1 x N/O, 1 x N/C	7.61
Left side mounting Auxiliaries		
SM1X12 02	Side mounting auxiliary 2 x N/O	7.57
SM1X12 11	Side mounting auxiliary 1 x N/O, 1 x N/C	7.57
SM1X12 20	Side mounting auxiliary 2 x N/C	7.57
SM1X13 11	Side mounting trip-indicating auxiliary contact 1 x N/O, 1 x N/C	16.07



SM1X11 20

SM1X12 11 SM1X13 11



SM1R****

SM1R Rotary Handle Breaker 45mm wide x 90mm high

REF NO	Thermal Setting Range	Motor Rating	PRICE
SM1R 0016	0.1 - 0.16A	0.02kW	40.51
SM1R 0025	0.16 - 0.25A	0.06kW	39.53
SM1R 0040	0.25 - 0.4A	0.09kW	41.85
SM1R 0063	0.4 - 0.63A	0.12kW	42.19
SM1R 0100	0.63 - 1A	0.25kW	44.93
SM1R 0160	1 - 1.6A	0.55kW	47.61
SM1R 0250	1.6 - 2.5A	0.75kW	49.73
SM1R 0400	2.5 - 4A	1.5kW	49.73
SM1R 0650	4 - 6.5A	2.2kW	49.73
SM1R 1000	6.3 - 10A	4kW	55.74
SM1R 1400	9 - 14A	5.5kW	57.96
SM1R 1800	13 - 18A	7.5kW	57.96
SM1R 2300	17 - 23A	9kW	60.39
SM1R 2500	20 - 25A	11kW	73.49
SM1R 3200	24 - 32A	15kW	92.91
SM1R 4000	30 - 40A	18.5kW	111.20



SM1X18 200R

Door Coupling for SM1R

REF NO	Description	PRICE
SM1X18 200R	Red/yellow handle complete with 200mm extension - IP65	38.54
SM1X18B 200R	Black handle complete with 200mm extension - IP65	38.54
SM1X18 S	Support for extension > 145mm	10.72

Shunt & Undervoltage Trips for SM1P / SM1R

REF NO	Description	PRICE
Right side mounting Undervoltage Trips		
SM1X14 110	110V AC Undervoltage trip	24.90
SM1X14 230	230V AC Undervoltage trip	24.90
SM1X14 400	400V AC Undervoltage trip	24.90
Right side mounting Shunt Trips		
SM1X16 024	24V AC Shunt trip	28.63
SM1X16 110	110V AC Shunt trip	28.63
SM1X16 230	230V AC Shunt trip	28.63
SM1X16 400	400V AC Shunt trip	28.63



SM1X14 230

SM1X16 230

SM2R / SM3R Rotary Handle Breaker 55mm wide x 140mm high

REF NO	Thermal Setting Range	Motor Rating	PRICE
SM2R 5000	34 - 50A	22kW	182.48
SM2R 6300	45 - 63A	30kW	187.43
SM3R 7500	55 - 75A	37kW	210.85
SM3R 9000	70 - 90A	45kW	224.42
SM3R 9900	80 - 100A	55kW	247.83



SM2R****

SM3R****

Lovato's range of modular contactors are available in two, three or four pole options from 20A to 63A, mounts on 35mm DIN rail, they also feature an operational flag indicator.



CN2020220

Lovato Single Module 2 Pole 20A

Rated thermal current AC1: 20A
Rated terminal current AC3: 9A
17.5mm Wide x 85mm High x 60mm Deep

REF NO	Description	PRICE
CN2011024	24VAC/DC; 1 x N/O, 1 x N/C	31.77
CN2011220	220 - 230VAC; 1 x N/O, 1 X N/C	31.77
CN2020024	24 VAC/DC; 2 x N/O	31.77
CN2020220	220 - 230VAC; 2 x N/O	31.77



CN3220220

Lovato Single Module 2 Pole 32A

Rated thermal current AC1: 32A
Rated terminal current AC3: 9A
17.5mm Wide x 85mm High x 60mm Deep

REF NO	Description	PRICE
CN3211024	24VAC/DC; 1 x N/O, 1 x N/C	33.44
CN3211220	220 - 230VAC; 1 x N/O, 1 X N/C	33.44
CN3220024	24VAC/DC; 2 x N/O	33.44
CN3220220	220 - 230VAC; 2 x N/O	33.44



Lovato Double Module 4 Pole 25A

Rated thermal current AC1: 25A
Rated terminal current AC3: 8.5A
35mm Wide x 85mm High x 60mm Deep

REF NO	Description	PRICE
CN2501024	24VAC/DC; 3 x N/O, 1 x N/C	40.37
CN2501220	220 - 230VAC; 3 x N/O, 1 x N/C	40.37
CN2510024	24VAC/DC; 4 x N/O	40.37
CN2510220	220 - 230VAC; 4 x N/O	40.37



CN2501220



CN3201220

Lovato Double Module 4 Pole 32A

Rated thermal current AC1: 32A
Rated terminal current AC3: 8.5A
35mm Wide x 85mm High x 60mm Deep

REF NO	Description	PRICE
CN3201024	24VAC/DC; 3 x N/O, 1 x N/C	49.50
CN3201220	220 - 230VAC; 3 x N/O, 1 x N/C	49.50
CN3210024	24VAC/DC; 4 x N/O	49.50
CN3210220	220 - 230VAC; 4 x N/O	49.50

Monoblock Pilot Lights



IP66/68/69K
See pages 256



CN6310220

Lovato Triple Module 4 Pole 40A

Rated thermal current AC1: 40A
Rated terminal current AC3: 22A
53.5mm Wide x 85mm High x 60mm Deep

REF NO	Description	PRICE
CN4001024	24VAC/DC; 3 x N/O, 1 x N/C	74.64
CN4001220	220 - 230VAC; 3 x N/O, 1 x N/C	74.64
CN4010024	24VAC/DC; 4 x N/O	74.64
CN4010220	220 - 230VAC; 4 x N/O	74.64



CN6310220

Lovato Triple Module 4 Pole 63A

Rated thermal current AC1: 63A
Rated terminal current AC3: 30A
53.5mm Wide x 85mm High x 60mm Deep

REF NO	Description	PRICE
CN6301024	24VAC/DC; 3 x N/O, 1 x N/C	110.33
CN6301220	220 - 230VAC; 3 x N/O, 1 x N/C	110.33
CN6310024	24VAC/DC; 4 x N/O	110.33
CN6310220	220 - 230VAC; 4 x N/O	110.33

Side Mount Auxiliary Contacts 6A

Auxillaries can only be fitted to the double and triple module versions, only one can be fitted per contactor

REF NO	Description	PRICE
CNH11	Auxillary 1 x N/O, 1 x N/C	25.57
CNH20	Auxillary 2 x N/O	25.57



CNH11

Other contact configurations are available on the modular contactors. Please contact us for details.

PABLO IP65 Modular Enclosures

See Our Full Range on Pages 100-101



Lovato manufacture a range of level control relays for conductive liquids. They act as an intermediary device between Probes/Float Switches responding to input signals to switch pumps on/off.

LVM25 Level Control Relays for Conductive Liquids

- Emptying and Filling Functions
- Operating Temperature -20...+60°C
- Sensitivity 2.5...100kΩ
- 3 Detecting Electrodes (MIN, MAX, COM)
- Fixed Probe Signal Time Delay
- Relay Out 1C/O 8A 250VAC (AC1)
- Stray Electrode-Cable Capacitance Insensitivity

REF NO	Description	PRICE
LVM25 240	Multivoltage 24...240VAC/DC	63.87



LVM25 240

LVM30 Level Control Relays for Conductive Liquids

- Emptying and Filling Functions
- Operating Temperature -20...+60°C
- Sensitivity 2.5...50kΩ
- 3 Detecting Electrodes (MIN, MAX, COM)
- Time Delay Adjustment: for Probe Signal: 1...10s for Pump Starting: 0...300s
- Relay Out 2C/O 8A 250VAC (AC1)

REF NO	Description	PRICE
LVM30 A240	Delay Start 24 / 220...240VAC	69.78
LVM30 A415	Delay Start 110...127VAC, 380...415VAC	69.78



LVM40 A415

LVM40 Level Control Relays for Conductive Liquids

- Emptying and Filling Functions: with Start Change Control with Extra-MIN and/or Extra-MAX Alarm Relays
- Tank Filling, Well Drawing Functions and Alarms
- Operating Temperature -20...+60°C
- Sensitivity 2.5...200kΩ
- Separate Sensitivity Adjustment for MAX Probe
- 5 Detecting Electrodes (MIN1, MAX1, MIN2, MAX2, COM)
- Adjustable Sensitivity Full Scale 25-50-100-200kΩ
- Probe Signal Delay Adjustment 1...10s
- Pump Starting Delay Adjustment 0...30min
- Relay Out 1C/O 8A 250VAC (AC1) + 1NO
- Stray Electrode-Cable Capacitance Insensitivity

REF NO	Description	PRICE
LVM40 A240	Multifunction 220...240VAC	132.34
LVM40 A415	Multifunction 380...415VAC	132.34

Probes & Electrodes

REF NO	Description	PRICE
11 SN1	Electrode with Probe Length 100mm for use in wells or storage tanks	20.60
31 SCM04	Probe for use in boilers with maximum temperature of 100°C. Probe length 43mm	50.49
31 SCM50	As above with probe length 500mm	87.83
31 SCM100	As above with probe length 1000mm	91.92
31 CGL125-3	Probe for use in boilers with maximum temperature of 180°C. Probe length 327mm	105.16
31 CGL125-5	As above with probe length 500mm	113.17
31 CGL125-7	As above with probe length 700mm	126.50
31 CGL125-10	As above with probe length 1000mm	146.23



11 SN1 31 SCM 31 CGL

Float Switches for Grey Water

These float switches are used for the control of levels of grey water e.g. rainwater, groundwater

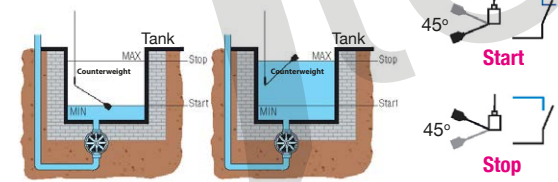
Activation Angle:	±45°
Float Material:	Polypropylene
Maximum Installation Depth:	30M
Operating Temperature:	0 ...+50°C
Ingress Protection:	IP68
Relay With Changeover Contact	10(4)A 250VAC 50/60Hz

REF NO	Description	PRICE
Float Switches with PVC Cable		
LVFS P1 W 05	For Grey Water PVC Cable 5M	18.45
LVFS P1 W 10	For Grey Water PVC Cable 10M	24.90
Float Switches with Neoprene Cable		
LVFS N1 W 05	For Grey Water Neoprene Cable 5M	26.74
LVFS N1 W 10	For Grey Water Neoprene Cable 10M	41.51
LVFS N1 W 20	For Grey Water Neoprene Cable 20M	71.00



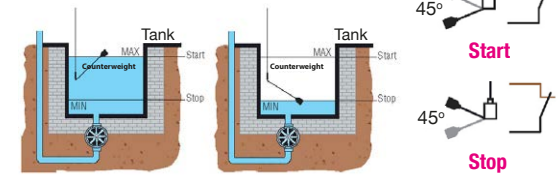
LVFS N1 W 20

Filling Function



This function is achieved by connecting the black and blue float terminals. The level regulator contact closes the lower circuit at minimum level and opens the circuit when the float reaches the upper maximum level. The MIN and MAX levels can be adjusted by varying the distance between counterweight and float.

Emptying Function



This function is achieved by connecting the black and brown float terminals. The level regulator contact closes the upper circuit at maximum level and opens the circuit when the float reaches the lower minimum level. The MIN and MAX levels can be adjusted by varying the distance between counterweight and float.

Float switches are used in the automation of electrical equipment such as pumps, solenoid valves, alarms, sluice gates, etc.

All versions have an internal changeover contact which is operated according to the level of the liquid where the float is located.

Compliant with IEC/EN60730-1 and IEC/EN60730-2-15



LVFS N1 B 01

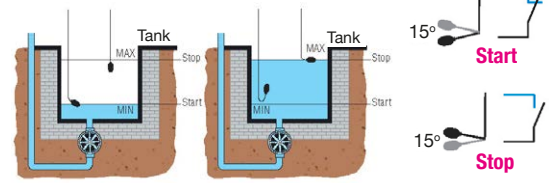
Float Switches for Dirty Water

These float switches are used for the control of levels of dirty water e.g. sewage, waste water

Activation Angle:	±15°
Float Material:	Polypropylene
Maximum Installation Depth:	50M
Operating Temperature:	0 ...+50°C
Ingress Protection:	IP68
Relay With Changeover Contact	10(4)A 250VAC 50/60Hz

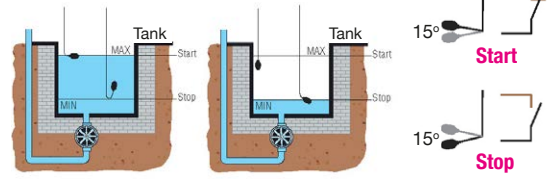
REF NO	Description	PRICE
LVFS N1 B 05	For Dirty Water Neoprene Cable 5M	63.65
LVFS N1 B 10	For Dirty Water Neoprene Cable 10M	78.38
LVFS N1 B 20	For Dirty Water Neoprene Cable 20M	107.90

Filling Function



This function uses two floats and is achieved by connecting the black and blue float terminals. The MIN and MAX levels can be adjusted by varying the position of the floats.

Emptying Function



This function uses two floats and is achieved by connecting the black and brown float terminals. The MIN and MAX levels can be adjusted by varying the position of the floats.

For more information on the Lovato Level Control Relays and Float Switches please scan the QR code.



The Lovato Electromechanical enclosed starters are designed for mounting contactor and overload relays on or close to machinery where there is no specific space for electrical equipment.

The range includes Start/Stop, Reversing, Changeover and Star Delta options.

Direct On Line Starters - IP65 Insulated Enclosure

REF NO	Description	PRICE
DOLS5.5230	Start/Stop 5.5kW 12A 230V Coil	41.76
DOLS5.5400	Start/Stop 5.5kW 12A 400V Coil	41.76
DOLS7.5230	Start/Stop 7.5kW 18A 230V Coil	48.18
DOLS7.5400	Start/Stop 7.5kW 18A 400V Coil	48.18
DOLS11230	Start/Stop 11kW 25A 230V Coil	63.17
DOLS11400	Start/Stop 11kW 25A 400V Coil	63.17

Direct On Line Starters with Isolator IP65 Insulated Enclosure

REF NO	Description	PRICE
DOLSW5.5230	Start/Stop with Isolator 5.5kW 12A 230V Coil	117.78
DOLSW5.5400	Start/Stop with Isolator 5.5kW 12A 400V Coil	117.78
DOLSW7.5230	Start/Stop with Isolator 7.5kW 18A 230V Coil	122.04
DOLSW7.5400	Start/Stop with Isolator 7.5kW 18A 400V Coil	122.04
DOLSW11230	Start/Stop with Isolator 11kW 25A 230V Coil	132.74
DOLSW11400	Start/Stop with Isolator 11kW 25A 400V Coil	132.74



DOL7.5230

DOLSW7.5230

Reversing Direct On Line Starters IP65 Insulated Enclosure

REF NO	Description	PRICE
DOLR5.5230	Forward/Stop/Reverse 5.5kW 12A 230V Coil	111.35
DOLR5.5400	Forward/Stop/Reverse 5.5kW 12A 400V Coil	111.35
DOLR7.5230	Forward/Stop/Reverse 7.5kW 18A 230V Coil	117.78
DOLR7.5400	Forward/Stop/Reverse 7.5kW 18A 400V Coil	117.78
DOLR11230	Forward/Stop/Reverse 11kW 25A 230V Coil	166.99
DOLR11400	Forward/Stop/Reverse 11kW 25A 400V Coil	166.99



DOLR11230

RF380400

Overload Relays for Direct On Line Starters

REF NO	Description	PRICE
RF380100	Overload Relay 0.6 - 1A	41.61
RF380160	Overload Relay 1 - 1.6A	41.61
RF380250	Overload Relay 1.6 - 2.5A	41.61
RF380400	Overload Relay 2.5 - 4A	41.61
RF380650	Overload Relay 4 - 6.5A	41.61
RF381000	Overload Relay 6.3 - 10A	41.61
RF381400	Overload Relay 9 - 14A	41.61
RF381800	Overload Relay 13 - 18A	46.83
RF382300	Overload Relay 17 - 23A	46.83
RF382500	Overload Relay 20 - 25A	46.83

For DOL Starters select overload relay for setting at motor FLC (Full Load Current)



YD11230

Star Delta Starters Start/Stop IP65 Insulated Enclosure

REF NO	Description	PRICE
YD11230	Start/Stop 11kW 22A 230V Coil	256.94
YD11400	Start/Stop 11kW 22A 400V Coil	256.94
YD15230	Start/Stop 15kW 28A 230V Coil	267.65
YD15400	Start/Stop 15kW 28A 400V Coil	267.65
YD22230	Start/Stop 22kW 43A 230V Coil	314.74
YD22400	Start/Stop 22kW 43A 400V Coil	314.74
YD30230	Start/Stop 30kW 60A 230V Coil	417.52
YD30400	Start/Stop 30kW 60A 400V Coil	417.52



Star Delta Starters Start/Stop with Isolator IP65 Insulated Enclosure

REF NO	Description	PRICE
YDSW11230	Start/Stop with Isolator 11kW 22A 230V Coil	319.02
YDSW11400	Start/Stop with Isolator 11kW 22A 400V Coil	319.02
YDSW15230	Start/Stop with Isolator 15kW 28A 230V Coil	331.86
YDSW15400	Start/Stop with Isolator 15kW 28A 400V Coil	331.86
YDSW22230	Start/Stop with Isolator 22kW 43A 230V Coil	438.92
YDSW22400	Start/Stop with Isolator 22kW 43A 400V Coil	438.92
YDSW30230	Start/Stop with Isolator 30kW 60A 230V Coil	599.52
YDSW30400	Start/Stop with Isolator 30kW 60A 400V Coil	599.52



YDSW11230

Overload Relays for Star Delta Starters

REF NO	Description	PRICE
RF381000	Overload Relay 6.3 - 10A	41.61
RF381400	Overload Relay 9 - 14A	41.61
RF381800	Overload Relay 13 - 18A	46.83
RF382300	Overload Relay 17 - 23A	46.83
RF382500	Overload Relay 20 - 25A	46.83
RF383200	Overload Relay 24 - 32A	73.25
RF383800	Overload Relay 32 - 38A	73.25

For Star-Delta Starters, Select overload relay for setting at 58% of FLC (Full Load Current)

ComEx is a flexible system offering standard as well as customer specific local control and indicating units. The range consists of a single, double and 3 gang control station. It is possible to join up to a maximum of 3 units together to create a bigger unit. The unit comes as standard with an M20 gland entry. An M25 entry or 2 x M20 entries are also available if required.

The enclosure material is black antistatic thermo plastic rated at IP66. A maximum surface temperature of T = 80°C is guaranteed through installation of the relevant components.

ATEX Gas Certified: II 2G Ex de IIC T6 Gb
ATEX Dust Certified: II 2D Ex tb IIC T80°C
ATEX Certificate: CML 14 ATEX 3073X
Voltage: 690V
Nominal Current: 16A
Connection: Terminals 2.5mm²

IECEX Gas Certified: Ex db de IIC T6 Gb
IECEX Dust Certified: Ex eb IIIC T80°C Db
IECEX Certificate: IECEX CML 14 0029X



Single Gang Ex Control Stations for Zones 1, 2, 21 & 22

Single gang control stations measure 88mmH x 88.5mmW x 81mmD

REF NO	Description	PRICE
07-3511-10-N84	Emergency Stop with 1 x N/O, 1 x N/C Contact Block	137.10
07-3511-10-N84/LS	Emergency Stop inc Shroud & Padlock with 1 x N/O, 1 x N/C Contact Block	163.26
07-3511-10-P74	Single Pushbutton inc coloured disks with 1 x N/O, 1 x N/C Contact Block	112.86
07-3511-10-LRR	Single Red LED Lamp	139.77
07-3511-10-LGG	Single Green LED Lamp	139.77
07-3511-10-LYY	Single Yellow LED Lamp	139.77
07-3511-10-S94	Selector Switch 2 Position Ronis 455 Key 1 x N/O, 1 x N/C Contact Block	137.10
07-3511-10-S92	Selector Switch 2 Position Ronis 455 Key 2 x N/O Contact Block	137.10



Double Gang Ex Control Stations for Zones 1, 2, 21 & 22

Double gang control stations measure 130mmH x 88.5mmW x 81mmD

REF NO	Description	PRICE
07-3512-10-P74-P74	Pos 1 - Pushbutton with 1 x N/O, 1 x N/C Contact Block Pos 2 - Pushbutton with 1 x N/O, 1 x N/C Contact Block	162.15
07-3512-10-P74-N84	Pos 1 - Pushbutton with 1 x N/O, 1 x N/C Contact Block Pos 2 - Emergency Stop with 1 x N/O, 1 x N/C Contact Block	193.55
07-3512-10-LRR-LGG	Pos 1 - Red LED Indicator Pos 2 - Green LED Indicator	256.28
07-3512-10-LRR-P74	Pos 1 - Red LED Indicator Pos 2 - Pushbutton with 1 x N/O, 1 x N/C Contact Block	209.20
07-3512-10-G01-A01	Pos 1 - 1 x 16A 4 Pole Isolator with 4 x N/O Contact Block	275.94



Triple Gang Ex Control Stations for Zones 1, 2, 21 & 22

Triple gang control stations measure 176mmH x 88.5mmW x 81mmD

REF NO	Description	PRICE
07-3513-10-P74-P74-P74	Pos 1 - Pushbutton with 1 x N/O, 1 x N/C Contact Block Pos 2 - Pushbutton with 1 x N/O, 1 x N/C Contact Block Pos 3 - Pushbutton with 1 x N/O, 1 x N/C Contact Block	228.03
07-3513-10-P74-P74-N84	Pos 1 - Pushbutton with 1 x N/O, 1 x N/C Contact Block Pos 2 - Pushbutton with 1 x N/O, 1 x N/C Contact Block Pos 3 - Emergency Stop with 1 x N/O, 1 x N/C Contact Block	246.80
07-3513-10-LGG-LRR-LYY	Pos 1 - Green LED Indicator Pos 2 - Red LED Indicator Pos 3 - Yellow LED Indicator	359.38



Zone 0 Zone 1 Zone 2 Zone 20 Zone 21 Zone 22

Certificate CML 14 ATEX 3073 X

Part No.	Description	Code	Part No.	Description	Code																																										
	Pushbutton With rubber membrane and supplied with 5 coloured inserts. Red, Green, Yellow, White, Black.	P7		Key Lock RONIS 445 2 Positions. 0 - I Latching, Key removable 2 Positions. 0 - I Momentary, Key removable in position 0	E0 E1																																										
	Double Pushbutton With rubber membrane and supplied with 5 coloured inserts. Red, Green, Yellow, White, Black.	P2		Illuminated Pushbutton Lens Red Green Yellow White Blue	TR TG TY TW TB																																										
	Emergency Stop Marked 'Not Aus / Emergency Stop'	N8		Potentiometer Scale 1 - 10	D0																																										
	Key Release Mushroom Pushbutton With DOM lock 4A 185	K3	<table border="1"> <thead> <tr> <th>Part No.</th> <th>Description</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td></td> <td>Switch Modules 2 N/C 2 N/O 1 N/O - 1 N/C</td> <td>1 2 4</td> </tr> <tr> <td></td> <td>Indicator Lamps Red Green Yellow White Blue</td> <td>R G Y W B</td> </tr> <tr> <td></td> <td>Illuminated Pushbutton's Red 1 N/O Green 1 N/O Yellow 1 N/O White 1 N/O Blue 1 N/O</td> <td>RB GB YB WB BB</td> </tr> <tr> <td></td> <td>Blanking Plug For unused holes in the front panel or for where a terminal block is used</td> <td>B1</td> <td></td> <td>Potentiometer 1 kΩ 2.2 kΩ 4.7 kΩ 10 kΩ</td> <td>4 5 6 7</td> </tr> <tr> <td></td> <td>Key Lock DOM Lock 4A 185 Lockable in both positions. Key removable in both positions.</td> <td>K0</td> <td></td> <td>Terminal Block 6 x Modular 2.5mm² Terminal</td> <td>6</td> </tr> <tr> <td></td> <td>Lockable in depressed position. Key removable in depressed position.</td> <td>K1</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>Lockable in initial position. Key removable in initial position.</td> <td>K2</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>Key Lock RONIS Lock 445 Lockable in both positions. Key removable in both positions.</td> <td>K4</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			Part No.	Description	Code		Switch Modules 2 N/C 2 N/O 1 N/O - 1 N/C	1 2 4		Indicator Lamps Red Green Yellow White Blue	R G Y W B		Illuminated Pushbutton's Red 1 N/O Green 1 N/O Yellow 1 N/O White 1 N/O Blue 1 N/O	RB GB YB WB BB		Blanking Plug For unused holes in the front panel or for where a terminal block is used	B1		Potentiometer 1 kΩ 2.2 kΩ 4.7 kΩ 10 kΩ	4 5 6 7		Key Lock DOM Lock 4A 185 Lockable in both positions. Key removable in both positions.	K0		Terminal Block 6 x Modular 2.5mm ² Terminal	6		Lockable in depressed position. Key removable in depressed position.	K1					Lockable in initial position. Key removable in initial position.	K2					Key Lock RONIS Lock 445 Lockable in both positions. Key removable in both positions.	K4			
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Ordering Number: Single Unit - 07-3511-10
 Double Unit - 07-3512-10 -
 Three Unit - 07-3513-10 - -

e.g. - 07-3511-10-N81 Single Unit with Emergency Stop & 2 N/C Contacts

For more information or about available cable entry sizes speak to one of our Hazardous Area Experts. contact 01844 397300