

size matters



IMO

Designed for greater flexibility at both design and production stage, this versatile range has been engineered to meet the evolving needs of interface with electronic circuits. Features include:

- Din-rail mounting - right up to 74A AC3
- Compactness only 45mm wide up to 40A AC3
- Large terminations: 6mm² MC10 to 22; 25mm² MC24 to 40; 50mm² MC50 to 74
- Increased operational currents AC1 + AC3
- Resistant to very high ambient temperatures (90°C) and humidity
- Made from halogen- and CFC-free plastics
- Single auxiliary contacts colour coded for easy identification
- 4 main pole versions available

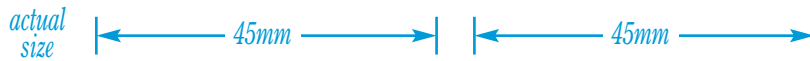
introducing the



3-pole contactors

Standard coil voltages

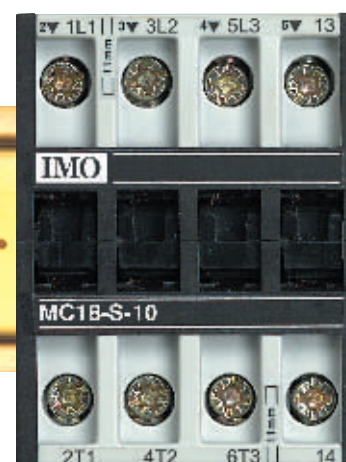
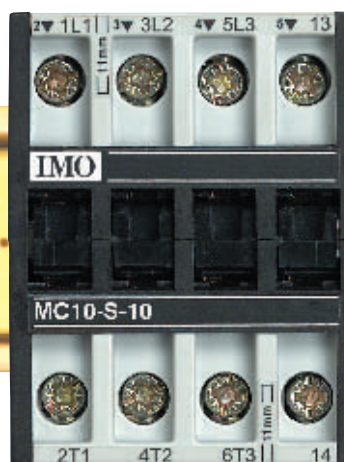
24V 50/60Hz, 110V 50/60Hz
 220-240V 50Hz, 380-415V 50Hz
 24V DC



| AC operated | | Type | 2.5mm ² cable terminal | MR07-S.. | MB09-S-10.. |
|--------------------------------|---------------------------|------------------------|-----------------------------------|--|---|
| Auxillary contacts | Type | | | 4 main poles available 4NO 2NO 2NC, 3NO 1NC | 1NO MB09-S-01.. |
| | Auxillary contacts | 1 NC | | | |
| DC operated | | Type | | 4 main poles available 4NO 2NO 2NC, 3NO 1NC | MB09-S-10= 1NO MB09-S-01= 1 NC |
| Auxillary contacts | | Type | | | |
| Auxillary contacts | | 1 NC | | | |
| Main contacts | AC1 690V at 40°C A | 10 | | 20 | |
| | AC3 A | - | | 9 | |
| | 230V kW | - | | 3 | |
| | 380/400V kW | - | | 4 | |
| | 500V kW | - | | 4 | |
| 660/690V kW | - | 4 | | | |
| Cable cross-section | Solid mm ² | 0.75-2.5 | 0.75-2.5 | | |
| | Flexible mm ² | 0.75-2.5 | 0.75-2.5 | | |
| | Cables per clamp | 2 | 2 | | |
| Auxillary contacts | I _{th} at 40°C A | 10 | 10 | | |
| | AC15 at 230V A | 3 | 3 | | |
| | at 400V A | 2 | 2 | | |
| Coil AC operated | Inrush VA | 25 | 25 | | |
| | Hold VA | 4-5 | 4-5 | | |
| Additional aux. contact blocks | Front mounting: type | MRA-11 / MRA-22 | MBA-11 / MBA-22 | | |
| | Side mounting: type | - | - | | |
| Overload relay | Type | - | MBOR-1-.... | | |

See reverse for details

compact contactor range from IMO



45mm

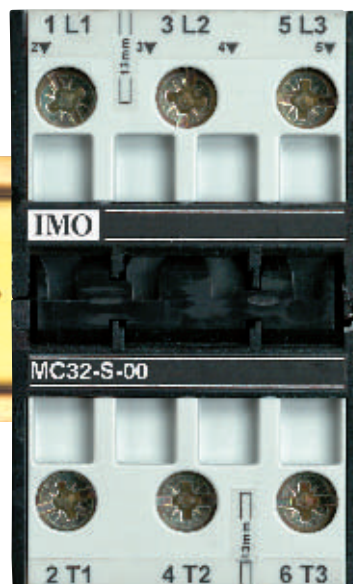
45mm

45mm

45mm

| | | | |
|------------------------|--|--------------------|--------------------|
| MB12-S-10.. | MC10-S-10.. | MC14-S-10.. | MC18-S-10.. |
| 1NO | 1NO | 1NO | 1NO |
| MB12-S-01.. | MC10-S-01.. | MC14-S-01.. | MC18-S-01.. |
| 1 NC | 1NC | 1NC | 1NC |
| MB12-S-10= | MC10-S-10= | MC14-S-10= | MC18-S-10= |
| 1NO | 1NO | 1NO | 1NO |
| MB12-S-01= | MC10-S-01= | MC14-S-01= | MC18-S-01= |
| 1NC | 1 NC | 1NC | 1NC |
| 20 | 25 | 25 | 32 |
| 12 | 10 | 14 | 18 |
| 4 | 3 | 4 | 5 |
| 5.5 | 4 | 5.5 | 7.5 |
| 5.5 | 5.5 | 7.5 | 10 |
| 5.5 | 5.5 | 7.5 | 10 |
| 0.75-2.5 | 1.5-6 | 1.5-6 | 1.5-6 |
| 0.75-2.5 | 1.5-4 | 1.5-4 | 1.5-4 |
| 2 | 2 | 2 | 2 |
| 10 | 16 | 16 | 16 |
| 3 | 12 | 12 | 12 |
| 2 | 4 | 4 | 4 |
| 25 | 33-45 | 33-45 | 33-45 |
| 4-5 | 7-10 | 7-10 | 7-10 |
| MBA-11 / MBA-22 | MCA-10 / MCA-01 - MCAH-10 / MCAH-01 | | |
| - | - | - | - |
| MBOR-1-... | MCOR-1-... | MCOR-1-... | MCOR-1-... |

6mm² cable terminal



45mm

45mm

45mm

45mm

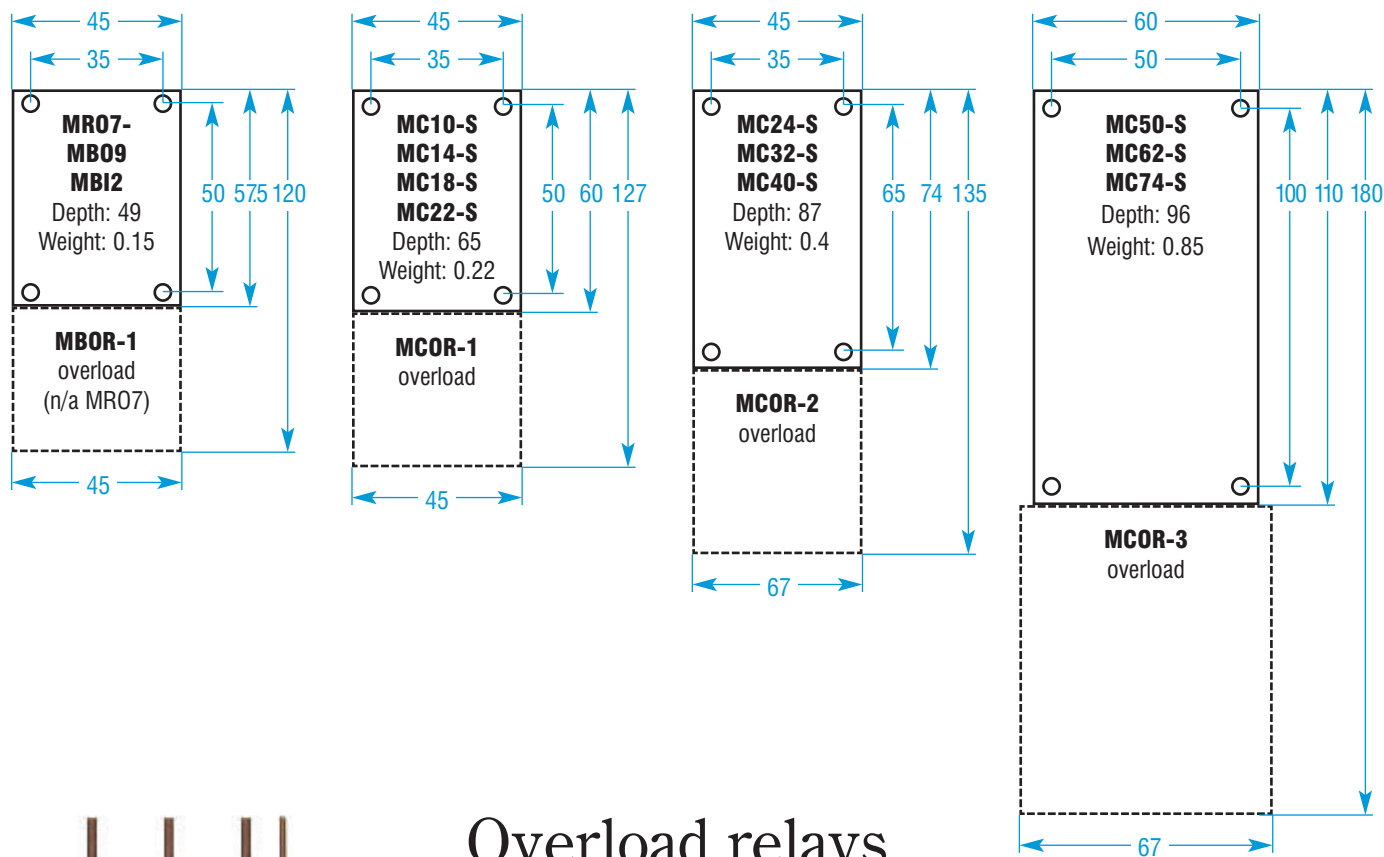
| MC22-S-10.. | 25mm ² cable terminal | MC24-S-00.. | MC32-S-00.. | MC40-S-00.. |
|-------------|--|-------------------------|-------------|-------------|
| 1NO | | - | - | - |
| MC22-S-01.. | | - | - | - |
| 1NC | | - | - | - |
| MC22-S-10= | | MC24-S-00= | MC32-S-00= | MC40-S-00= |
| 1NO | | - | - | - |
| MC22-S-01= | | - | - | - |
| 1NC | | - | - | - |
| 32 | | 50 | 65 | 80 |
| 22 | | 24 | 32 | 40 |
| 6 | | 6 | 8.5 | 11 |
| 11 | | 11 | 15 | 18.5 |
| 15 | | 15 | 18.5 | 18.5 |
| 10 | | 15 | 18.5 | 18.5 |
| 1.5-6 | | 2.5-25 | 2.5-25 | 2.5-25 |
| 1.5-4 | | 2.5-16 | 2.5-16 | 2.5-16 |
| 2 | | 1+1 | 1+1 | 1+1 |
| 16 | | - | - | - |
| 12 | | - | - | - |
| 4 | | - | - | - |
| 33-45 | 90-115 | 90-115 | 90-115 | |
| 7-10 | 9-13 | 9-13 | 9-13 | |
| | MCA-10 / MCA-01 - MCAH-10 / MCAH-01 | | | |
| - | MCAS-11 | MCAS-11 | MCAS-11 | |
| MCOR-1-... | MCOR-1-... / MCOR-2-... | MCOR-1-... / MCOR-2-... | MCOR-2-.... | |



50mm² cable terminal

| MC50-S-00.. | MC62-S-00.. | MC74-S-00.. |
|-------------------------------------|-------------|-------------|
| - | - | - |
| - | - | - |
| - | - | - |
| MC50-S-00= | MC62-S-00= | MC74-S-00= |
| - | - | - |
| - | - | - |
| - | - | - |
| 115 | 130 | 140 |
| 50 | 62 | 74 |
| 12.5 | 18.5 | 22 |
| 22 | 30 | 37 |
| 30 | 37 | 45 |
| 30 | 37 | 45 |
| 4-50 | 4-50 | 4-50 |
| 6-35 | 6-35 | 6-35 |
| 1+1 | 1+1 | 1+1 |
| - | - | - |
| - | - | - |
| - | - | - |
| 140-165 | 140-165 | 140-165 |
| 13-18 | 13-18 | 13-18 |
| MCA-10 / MCA-01 - MCAH-10 / MCAH-01 | | |
| MCAS-11 | MCAS-11 | MCAS-11 |
| MCOR-3-.... | MCOR-3-.... | MCOR-3-.... |

3-pole contactors dimensions (mm) and weights (kg)



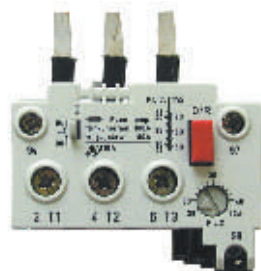
Overload relays



MCOR-1 for use with MC10-S to MC32-S

Setting range

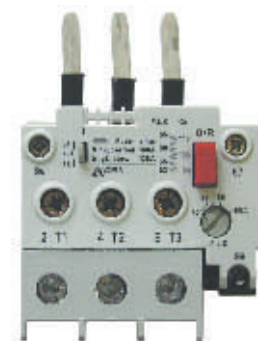
| DOL | Star Delta |
|-----------|------------|
| 0.12-0.18 | - |
| 0.18-0.27 | - |
| 0.27-0.4 | - |
| 0.4-0.6 | - |
| 0.6-0.9 | - |
| 0.8-1.2 | - |
| 1.2-1.8 | - |
| 1.8-2.7 | 3.1-4.7 |
| 2.7-4 | 4.7-7 |
| 4-6 | 7-10.5 |
| 6-9 | 10.5-15.5 |
| 8-11 | 14-19 |
| 10-14 | 18-24 |
| 13-18 | 23-31 |
| 17-24 | 30-41 |
| 23-32 | 40-52 |



MCOR-2 for use with MC24-S to MC40-S

Setting range

| DOL | Star Delta |
|-------|------------|
| 10-14 | 18-24 |
| 14-20 | 24-35 |
| 20-28 | 35-48 |
| 28-42 | 48-73 |



MCOR-3 for use with MC50-S to MC74-S

Setting range

| DOL | Star Delta |
|-------|------------|
| 20-28 | 35-48 |
| 28-42 | 48-73 |
| 40-52 | 70-90 |
| 52-65 | 90-112 |
| 60-74 | 104-128 |

Accessories

Auxiliary contact blocks

| for use with | MR07-S | MB09-S and MB12-S | MC10 to MC74 | MC10 to MC74 |
|-----------------------|---|---|---|--|
| Front mounting | MRA-11 / MRA-22 Ue 690V I _{th} 10A | MBA-11 / MBA-22 Ue 690V I _{th} 10A | MCA-10 / MCA-01 Ue 690V I _{th} 10A | MCAH-10 / MCAH-01 Ue 690V I _{th} 25A |
| Contacts | 1NO/1NC / 2NO/2NC AC15: 230V 3A 400V 2A | 1NO/1NC / 2NO/2NC AC15: 230V 3A 400V 2A | 1NO / 1NC AC15: 230V 3A 400V 2A | 1NO / 1NC AC15: 230V 6A 400V 4A |
| Number of contacts | 1 | 1 | max. 4(3) aux. | max. 4(3) aux. |
| Side mounting | | | | MCAS-11 (for MC24 to MC74) Ue 690V I _{th} 10A |
| Contacts | | | | 1NO and 1NC AC15: 230V 2.5A 400V 1.5A |
| Number of contacts | | | | 1 block right or left |

Electronic timer for use with MC10 to MC74

Delay timer with LED indicator

Repeat accuracy 1%-recovery time 50mS

Rating AC15 0.75A @ 60V-0.1A @ 250V

Max.inrush 25A-min.switching 5mA

Delay -on supply 24-60V AC or DC - 100-250V AC or DC

Delay-off supply 24-60V AC, 100-120V AC or 20-250V AC

| | 1-30 secs | 10-180 secs | 30-600 secs |
|-----------------|-----------------|------------------|------------------|
| Delay-on: type | MCT-A-30 | MCT-A-180 | MCT-A-600 |
| Delay-off: type | MCT-B-30 | MCT-B-180 | MCT-B-600 |

Coil suppressor for use with

| | MC10 to MC22 | MC24 to MC74 |
|----------------|----------------|------------------|
| 12-24V AC/DC | MC-E44 | VG-MC/24 |
| 24-48V AC/DC | MC-E48 | VG-MC/48 |
| 110-230V AC/DC | MC-E220 | VG-MC/250 |
| 250-415V AC/DC | MC-E380 | VG-MC/415 |

Indicators for use with MC10 to MC74

| Current indicator | Voltage indicator |
|---------------------------------------|---------------------------------------|
| 24-660V AC or DC (voltage drop 2V) | 220-415V AC or DC 24-120V AC or DC |
| Green (LED) MC-ING | White (Lamp) MC-UN |
| Red (LED) MC-INR | Red (LED) MC-UNR |

Interface relay for use with MC10 to MC74

Relay to interface with electronic circuits

1 make contact rated 0.75A max 250V AC 30V DC

MC-IM 24V

Mechanical interlock for use with

| | MC10-MC40 | MC50-MC74 |
|--|---------------|---------------|
| | MC-I-W | MC-I-X |

faxback

to 020 8208 4040

Please enlarge on your new range
of ultra-compact contactors



Name

Position

Company

Address

Postcode

Telephone

Fax

Email

Nature of business

- Panel builder OEM
 Machine builder User

IMO Precision Controls Limited

1000 North Circular Road

Staples Corner London NW2 7JP

Tel: +44 (0)20 8452 6444

Fax: +44 (0)20 8450 2274

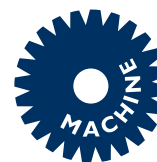
IMOnline: www.imopc.com

Email: imo@imopc.com

I am also interested in (please tick)



- Din Terminals
- Isolators & Switch Fuses
- MCB & RCD
- Motor Control Gear
- Panel Meters
- Relays
- Signal Conditioning
- Sockets
- Timers
- Transformers & Power Supplies



- Drives
- Fieldbus Interfaces
- Industrial PCs
- Intelligent Terminals/HMI
- Limit Switches
- Photoelectric Switches
- PLCs
- Proximity Switches
- Scada
- Soft PLC
- Temperature Controls



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- PLCs
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- Signal Conditioning
- Soft PLC
- Temperature Controls



- Lightguards
- Safety Limit Switches
- Safety Relays



- Audible devices
- Automotive relays
- LEDs & 7 segment displays
- OCMOS FET photocouplers
- PCB Terminal blocks
- Photocouplers
- Power relays
- Signal relays
- Switches



- Fieldbuster
- Jaguar VXM 0.4-400kW
- Jaguar VXSM 0.2-4.0kW
- Jaguar CUBCM 0.2-2.2kW

IMO