




Electro- mechanical starters



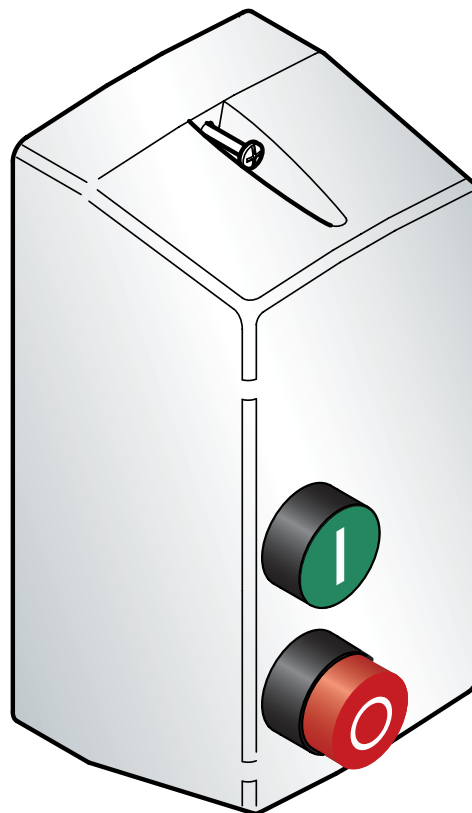
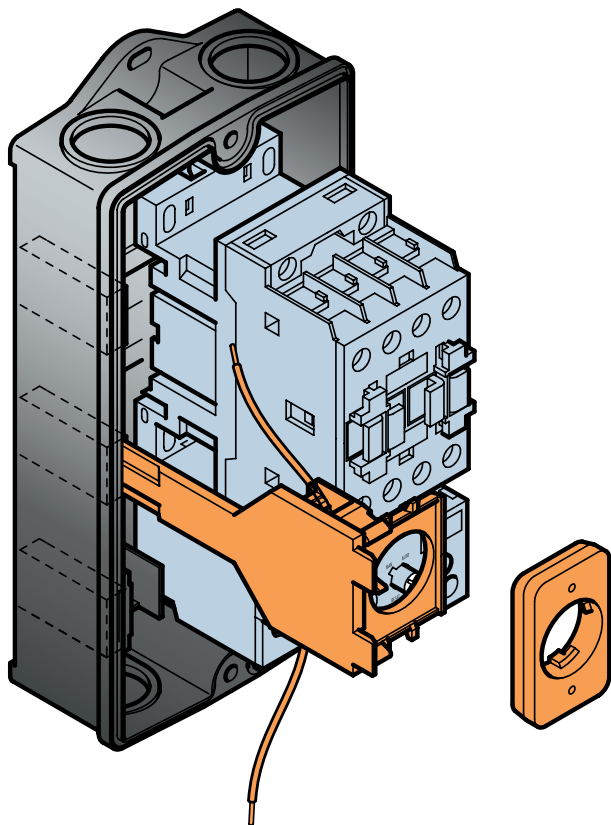
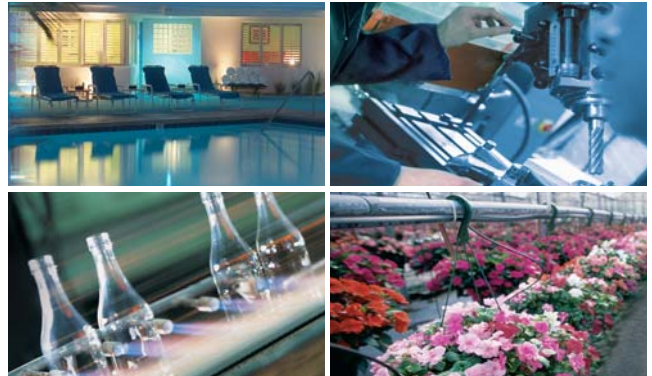
Orange

 **Lovato**
electric
100% electricity

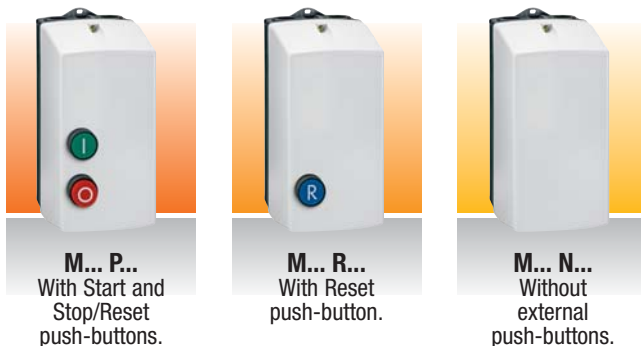
The ideal solution for every sort of motor and pump starting.

Orange starters, in plastic enclosure, are part of the range of LOVATO Electric electromechanical starters. Their componibility system provides for simple assembly of

diverse equipment, in a rapid and safe way. **Orange** are a flexible solution, ideal for industrial field, in civil building, greenhouses, cold storage and refrigeration, etc.



IP65



The enclosures are available in 3 different sizes (WxHxD):

- M0...** 88x184x140mm for BG series mini-contactors
- M1...** 88x202x155.3mm for BF09A - BF18A contactors
- M2...** 110x234x169mm for BF09A - BF32A contactors

For more details contact our Customer Service (Tel. +39 035 4282422).



Direct-on-line and reversing starters



Orange

The new **Orange** enclosures offer excellent technical performance.

The IP65 protection degree consents installation in places exposed to harsh ambient conditions, such as dusts and strong water spraying or jets.

The starter integrity is warranted by the robustness of the plastic materials used, even in the case of strong impacts.

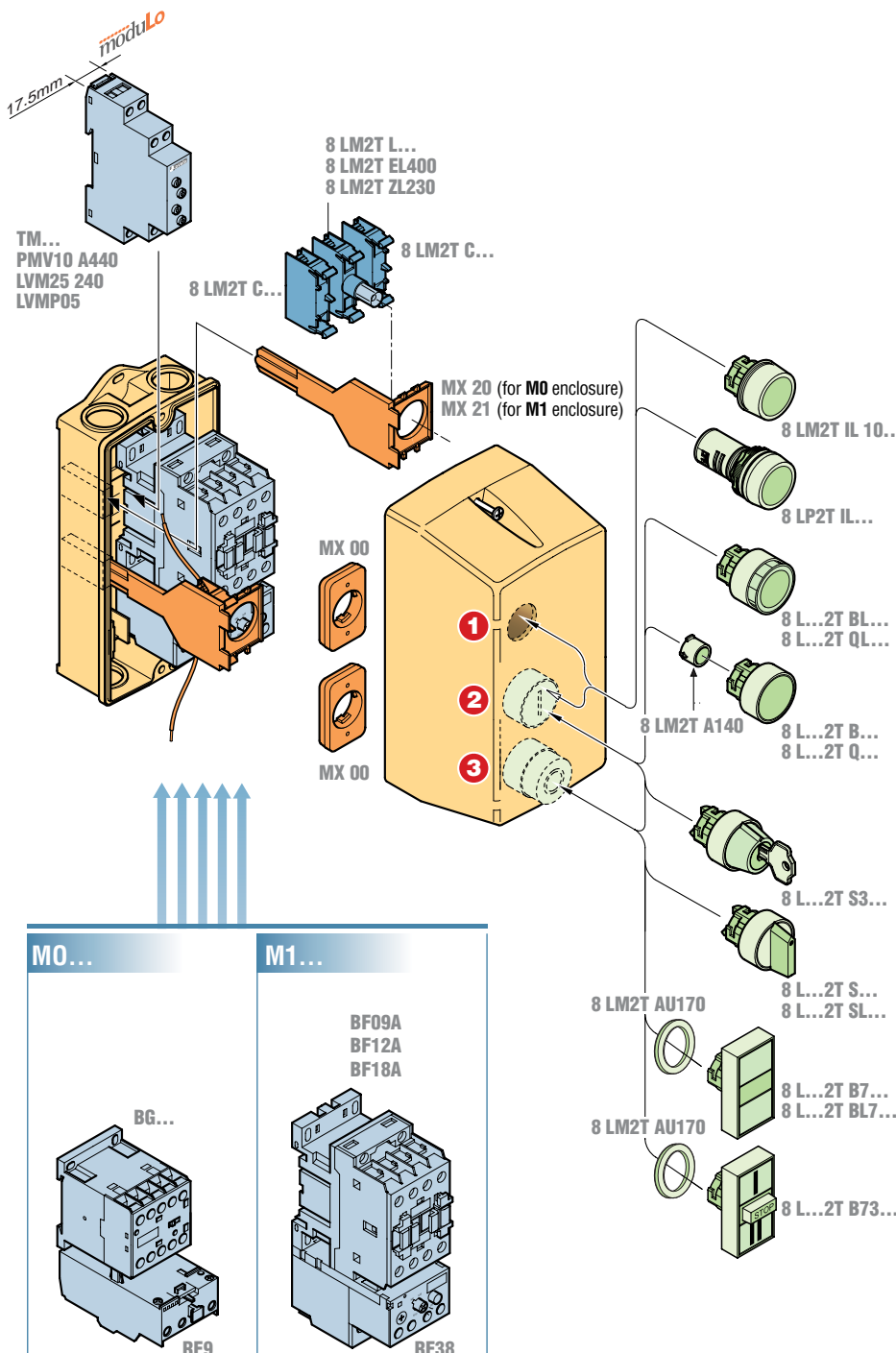
These features consent **Orange** starters to be suited for severe ambient conditions and meet stringent standard requirements of the North American market, UL and CSA approvals.

M0 and M1 enclosures

Inside the enclosure, in addition to the starter composed by a contactor and thermal overload relay, one of the following devices of the **moduLo** series can be fitted: time relays TM..., phase sequence - phase loss relay PMV10 A440, level control relay LVM25 240 and priority change relay LVMP05.

These **moduLo** devices are 17.5mm wide (1 module) and must be fitted on the left side of the enclosure only.

These **moduLo** devices are 17.5mm wide (1 module) and must be fitted on the left side of the enclosure only.



The enclosure covers can be equipped with various types of actuators and pilot lights, per following details.

1 Upper position 1

The cover must be drilled in this position, with a 22.5mm diameter, by the user; 8 LM2T IL10... or 8 LP2T IL... pilot light can be fitted.

To fit the 8 LM2T IL10... (not type 8 LP2T IL...) pilot light head, the MX 00 fixing adapter and the mounting base, type MX 20 for M0 enclosure, or type MX 21 for M1 enclosure, must also be purchased.

The lamp holder is snapped on to this mounting base.

2 Middle position 2

Based on the enclosure type, in this position, the user finds either the Start button or a plug in the 22.5mm hole. Various actuators can be fitted in this position, such as flush or extended push buttons, selectors or pilot lights, as illustrated in the side figure.

To fit the actuators, the MX 00 fixing adapter, not required for 8 LP2T IL... pilot lights, and the mounting base, type MX 20 for M0 enclosure, or type MX 21 for M1 enclosure, must also be purchased.

The contact or lamp holder elements are snapped on to this mounting base.

3 Lower position 3

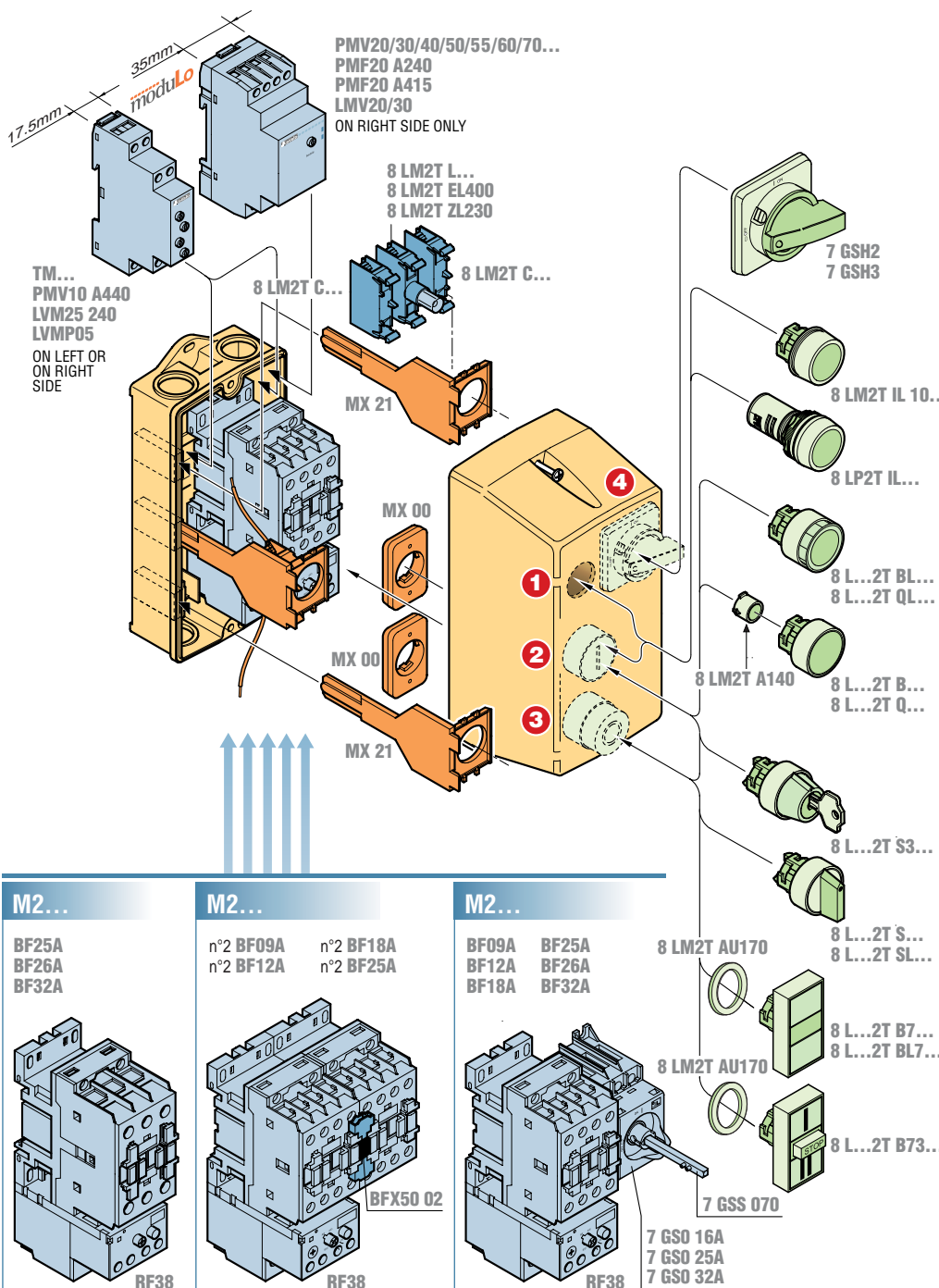
The Stop/Reset button is mounted in this position, except for the enclosure without buttons.

This button activates the thermal overload relay via a mechanical actuator. In eventual applications without thermal overload relay, this button can be removed and the hole stopped up by the threaded plug 8 LM2 T A130.

M2 enclosure

Inside the enclosure, in addition to the starter composed by a contactor and thermal overload relay, the following devices of the **moduLo** series can be fitted: voltage monitoring relays PMV..., frequency relay PMF20..., level control relays LVM20-25-30..., and priority change relay LVMP05. One only of the following combinations can be fitted: n° 1 only 35mm wide relay on the right side of the enclosure

or n° 2 17.5mm wide relays on the right side only of the enclosure or n° 2 17.5mm wide relays one on the right and one on the left side of the enclosure. Switch disconnectors, 7 GS... A, can also be installed. Instead of the direct-on-line starter, reversing or changeover contactor assemblies up to BF25A can also be fitted with a thermal overload relay.



The enclosure cover can be equipped with various types of actuators and pilot lights, per following details.

1 Upper position 1

The cover must be drilled in this position, with a 22.5mm diameter, by the user; 8 LM2T IL10... or 8 LP2T IL... pilot light can be fitted. To fit the 8 LM2T IL10... (not type 8 LP2T IL...) pilot light, the MX 00 fixing adapter and the mounting base type MX 21, must also be purchased. The lamp holder is snapped on to this mounting base.

2 Middle position 2

Based on the enclosure type, in this position, the user finds either the Start button or a plug in the 22.5mm hole. Various actuators can be fitted in this position, such as flush or extended push buttons, selectors or pilot lights, as illustrated in the side figure. To fit the actuators, the MX 00 fixing adapter, not required for 8 LP2T IL... pilot light, and the mounting base type MX 21, must also be purchased. The contact or lamp holder elements are snapped on to this mounting base.

3 Lower position 3

The Stop/Reset button is mounted in this position, except for the enclosure without buttons. This button activates the thermal overload relay via a mechanical actuator. In eventual applications without thermal overload relay, this button can be removed and the hole stopped up by the threaded plug 8 LM2T A130. Various actuators can be fitted in this position, such as flush or extended push buttons, selectors or pilot lights, as illustrated in the side figure. To fit the actuators, the MX 00 fixing adapter, not required for 8 LP2T IL... pilot light, and the mounting base type MX 21, must also be purchased. The contact or lamp holder elements are snapped on to this mounting base.

4 Upper position 4

The cover must be drilled in this position, with a 22.5mm diameter, by the user.

With thermal relay in insulated enclosure

Available versions up to 45kW ≤400V.



| Order code | Relay adj | Technical characteristics | | Qty per pkg | Wt |
|--|-----------|---------------------------|-----------|-------------|-------|
| | [A] | le [A] | kW 400V | n° | [kg] |
| Starters with Start and Stop/Reset push-buttons ②. | | | | | |
| M0 P009 12① | 0.6-1 | 1 | 0.18-0.25 | 1 | 0.800 |
| M0 P009 12①V5 | 0.9-1.5 | 1.5 | 0.37 | 1 | 0.800 |
| M0 P009 12②V3 | 1.4-2.3 | 2.3 | 0.55-0.75 | 1 | 0.800 |
| M0 P009 12③33 | 2-3.3 | 3.3 | 1.1 | 1 | 0.800 |
| M0 P009 12④5 | 3-5 | 5 | 1.5-2.2 | 1 | 0.800 |
| M0 P009 12⑤75 | 4.5-7.5 | 7.5 | 2.2-3 | 1 | 0.800 |
| M0 P009 12⑥10 | 6-10 | 9 | 3-4 | 1 | 0.800 |
| M0 P012 12⑦15 | 9-15 | 12 | 5.5 | 1 | 0.800 |
| M1 P009 12⑧A4 | 0.63-1 | 1 | 0.25 | 1 | 1.040 |
| M1 P009 12⑧A5 | 1-1.6 | 1.6 | 0.37-0.55 | 1 | 1.040 |
| M1 P009 12⑧A6 | 1.6-2.5 | 2.5 | 0.75 | 1 | 1.040 |
| M1 P009 12⑧A7 | 2.5-4 | 4 | 1.1-1.5 | 1 | 1.040 |
| M1 P009 12⑧A8 | 4-6.5 | 6.5 | 2.2-3 | 1 | 1.040 |
| M1 P009 12⑧A9 | 6.3-10 | 10 | 3-4 | 1 | 1.040 |
| M1 P009 12⑧B0 | 9-14 | 13 | 5.5 | 1 | 1.040 |
| M1 P018 12⑧B1 | 13-18 | 18 | 7.5 | 1 | 1.040 |
| M2 P025 12⑧B2 | 17-23 | 23 | 11 | 1 | 1.210 |
| M2 P025 12⑧B3 | 20-25 | 25 | 11 | 1 | 1.210 |
| M2 P032 12⑧B4 | 24-32 | 32 | 15 | 1 | 1.285 |

Starters with Reset push-button ②.

To order the starters with Reset push-button replace the letter **P** with the letter **R**.

For example: **M0 P009 12①** becomes **M0 R009 12①**.

Components

| Starter enclosure | Contactor | Thermal relay | Auxiliary contact block |
|-------------------|-----------|---------------|-------------------------|
| M0 PA | BG09 10A① | RF9 1 | — |
| M0 PA | BG09 10A① | RF9 1V5 | — |
| M0 PA | BG09 10A① | RF9 2V3 | — |
| M0 PA | BG09 10A① | RF9 33 | — |
| M0 PA | BG09 10A① | RF9 5 | — |
| M0 PA | BG09 10A① | RF9 75 | — |
| M0 PA | BG09 10A① | RF9 10 | — |
| M0 PA | BG12 10A① | RF9 15 | — |
| M1 PA | BF09 10A① | RF38 0100 | — |
| M1 PA | BF09 10A① | RF38 0160 | — |
| M1 PA | BF09 10A① | RF38 0250 | — |
| M1 PA | BF09 10A① | RF38 0400 | — |
| M1 PA | BF09 10A① | RF38 0650 | — |
| M1 PA | BF09 10A① | RF38 1000 | — |
| M1 PA | BF09 10A① | RF38 1400 | — |
| M1 PA | BF18 10A① | RF38 1800 | — |
| M2 PA | BF25 10A① | RF38 2300 | — |
| M2 PA | BF25 10A① | RF38 2500 | — |
| M2 PA | BF32 00A① | RF38 3200 | G418 10 |

Certifications and compliance

Certifications obtained: UL and CSA.

Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-4-1.

Without thermal relay in insulated enclosure

Available versions up to 95A ≤440V.



| Order code | Maximum operating current ≤440V | Qty per pkg | Wt |
|--|---------------------------------|-------------|-------|
| | [A] | n° | [kg] |
| Starters with Start and Stop/Reset push-buttons ②. | | | |
| M0 P009 10① | 9 | 1 | 0.677 |
| M0 P012 10① | 12 | 1 | 0.677 |
| M1 P009 10① | 13 | 1 | 0.917 |
| M1 P018 10① | 18 | 1 | 0.917 |
| M2 P025 10① | 25 | 1 | 1.087 |
| M2 P032 10① | 32 | 1 | 1.162 |

Starters with Reset push-button ②.

To order the starters with Reset push-button replacing the letter **P** with the letter **R**.

For example: **M0 P009 10①** becomes **M0 R009 10①**.

Components

| Starter enclosure | Contactor | Thermal relay to purchase separately | Auxiliary contact block |
|-------------------|-----------|--------------------------------------|-------------------------|
| M0 PA | BG09 10A① | RF9④ | — |
| M0 PA | BG12 10A① | RF9④ | — |
| M1 PA | BF09 10A① | RF38④ | — |
| M1 PA | BF18 10A① | RF38④ | — |
| M2 PA | BF25 10A① | RF38④ | — |
| M2 PA | BF32 00A① | RF38④ | G418 10 |

Certifications and compliance

Certifications obtained: UL and CSA.

Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-4-1.

① Complete order code with coil voltage digit (if 50/60Hz) or with voltage digit followed by 60 (if 60Hz).

Standard voltages are as follows:

- AC 50/60Hz 024 / 048 / 110 / 230 / 400VAC

- AC 60Hz 024 60 / 048 60 / 120 60 / 220 60 / 230 60 / 460 60 / 575 60 (VAC).

Example:

M0 R009 12 024 1 for direct-on-line starter in M0 type enclosure with Start and Stop/Reset buttons, 9A/AC3 contactor with 24VAC 50/60Hz coil and 0.6-1A thermal overload relay.

M0 P009 12 024 60 1 for direct-on-line starter in M0 type enclosure with Start and Stop/Reset buttons, 9A/AC3 contactor with 24VAC 60Hz coil and 0.6-1A thermal overload relay.

② Protection fuses are to be mounted externally by the user.

③ Ie max ≤440V.

④ For thermal overload relay choice, consult our general catalogue or contact our Customer Service (Tel. +39 035 4282422).

Accessories and spare parts

Available versions up to 95A ≤400VAC for BF50-BF95 contactors.



Empty insulated enclosures

| Order code | Contactor type ① | Thermal relay ② | Maximum operating current ≤440V [A] | Qty per pkg n° | Wt [kg] |
|------------|------------------|-----------------|--|-------------------|------------|
|------------|------------------|-----------------|--|-------------------|------------|

Enclosures with Start-Stop/Reset buttons.

| | | | | | |
|-------------|----------------------|------|----|---|-------|
| M0PA | BG06, BG09, BG12 | RF9 | 12 | 1 | 0.490 |
| M1PA | BF09A, BF12A, BF18A | RF38 | 18 | 1 | 0.545 |
| M2PA | BF25A, BF26A, BF32A③ | RF38 | 32 | 1 | 0.715 |

Enclosures with Reset buttons.

To order the starters with Reset push-button replace the letter **PA** with the letter **RA**. For example: **M0 PA** becomes **M0 RA**.

Enclosures without external push-buttons.

To order the starters without external push-buttons, replace the letter **PA** with the letter **N**. For example: **M0 PA** becomes **M0 N**.

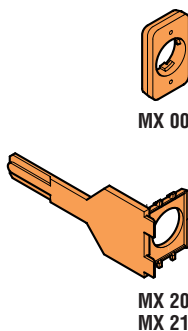
Accessories and spare parts

| Order code | Description | Qty per pkg n° | Wt [kg] |
|--------------|--|-------------------|------------|
| MX 00 | Button actuator fixing adapter | 10 | 0.010 |
| MX 10 | Stop/Reset button extension rod for M0 enclosure | 5 | 0.010 |
| MX 11 | Stop/Reset button extension rod for M1 enclosure | 5 | 0.010 |
| MX 12 | Stop/Reset button extension rod for M2 enclosure | 5 | 0.010 |
| MX 20 | Mounting base for 8LM2T C... contact on M0 enclosure | 5 | 0.010 |
| MX 21 | Mounting base for 8LM2T C... contact on M1 or M2 enclosure | 5 | 0.010 |

① To be purchased separately; for contactor choice, consult our general catalogue or contact our Customer Service (Tel. +39 035 4282422).

② To be purchased separately; for thermal overload relay choice, consult our general catalogue or contact our Customer Service (Tel. +39 035 4282422).

③ Reversing contactor assemblies can be fitted as well.



Empty insulated enclosures are supplied with the following accessories:

| Enclosure | M0 PA | M1 PA | M2 PA | M0 RA | M1 RA | M2 RA |
|--|-------|-------|-------|-------|-------|-------|
| Mounting base MX 20 MX 21 | 1 | 1 | 1 | | | |
| Stop/Reset button 8 LP2T B1176 8 LP2T B2104 | 1 | 1 | 1 | 1 | 1 | 1 |
| Start button 8 LP2T B1113 | 1 | 1 | 1 | | | |
| Contact element for Start button 8 LM2T C10 | 1 | 1 | 1 | | | |
| Operator mounting adapter MX 00 | 2 | 2 | 2 | 1 | 1 | 1 |
| Start/Reset button extension rod MX 10 MX 11 MX 12 | 1 | 1 | 1 | 1 | 1 | 1 |
| Threaded plug for unused holes 8 LM2T A130 | | | | 1 | 1 | 1 |

Starters in insulated IP65 enclosure

Additional components

Some of the more common elements, which can be fitted on the **M** series enclosures, are given below. Others can be found in the general catalogue.



Switch disconnectors

Three-pole switches

| Order code | Rated power AC23 415V [kW] | Conventional free air thermal current I _{th} [A] | Qty per pkg n° | Wt [kg] |
|---|----------------------------------|--|-------------------------|------------|
| Switch body for door coupling version, to complete with extension and handle. | | | | |
| 7 GS016 A | 7.5 | 16 | 1 | 0.129 |
| 7 GS025 A | 11 | 25 | 1 | 0.129 |
| 7 GS032 A | 15 | 32 | 1 | 0.129 |

Add-on accessories

| Order code | Characteristics | Qty per pkg n° | Wt [kg] |
|--------------------------|-------------------------------|-------------------------|------------|
| Door coupling extension. | | | |
| 7 GSS 070 | 70mm long | 1 | 0.014 |
| Handles. | | | |
| 7 GSH 2 | Black. Padlockable. IP65 | 1 | 0.042 |
| 7 GSH 3 | Red/yellow. Padlockable. IP65 | 1 | 0.042 |

Push buttons and selectors 22mm plastic



Push-button actuators, spring return

| Order code | Colour | Qty per pkg n° | Wt [kg] |
|---|--------|-------------------------|------------|
| Flush (complete with mounting adapter). Spring return. | | | |
| 8 LP2T B103 | Green | 10 | 0.025 |
| 8 LP2T B104 | Red | 10 | 0.025 |
| Extended (complete with mounting adapter). Spring return. | | | |
| 8 LP2T B203 | Green | 10 | 0.027 |
| 8 LP2T B204 | Red | 10 | 0.027 |
| Flush (with side visibility) (complete with mounting adapter). Spring return. | | | |
| 8 LP2T BL103 | Green | 10 | 0.025 |
| 8 LP2T BL104 | Red | 10 | 0.025 |
| Extended (complete with mounting adapter). Spring return. | | | |
| 8 LP2T BL203 | Green | 10 | 0.027 |
| 8 LP2T BL204 | Red | 10 | 0.027 |

Push-button actuators, spring return with symbol

| Order code | Symbol | Colour | Qty per pkg n° | Wt [kg] |
|---|--------|--------|-------------------------|------------|
| Flush (complete with mounting adapter). Spring return. | | | | |
| 8 LP2T B1104 | O | Red | 10 | 0.025 |
| 8 LP2T B1113 | I | Green | 10 | 0.025 |
| Extended (complete with mounting adapter). Spring return. | | | | |
| 8 LP2T B2104 | O | Red | 10 | 0.027 |
| 8 LP2T B2134 | STOP | Red | 10 | 0.027 |

Selector actuators-knob

| Order code | Type of positions | Qty per pkg n° | Wt [kg] |
|--|-------------------|-------------------------|------------|
| 2 position (complete with mounting adapter). | | | |
| 8 LP2T S120 | ∨ | 10 | 0.037 |
| 3 position (complete with mounting adapter). | | | |
| 8 LP2T S130 | ∨∨ | 10 | 0.037 |

Selector actuators-lever

| | | | |
|--|----|----|-------|
| 2 position (complete with mounting adapter). | | | |
| 8 LP2T S220 | ∨ | 10 | 0.037 |
| 3 position (complete with mounting adapter). | | | |
| 8 LP2T S230 | ∨∨ | 10 | 0.037 |

Selector actuators-key

| | | | |
|--|----|----|-------|
| 2 position (complete with mounting adapter). | | | |
| 8 LP2T S320 | ∨ | 10 | 0.060 |
| 3 position (complete with mounting adapter). | | | |
| 8 LP2T S330 | ∨∨ | 10 | 0.060 |

Illuminated selector actuators

| Order code | Type of positions | Colour | Qty per pkg n° | Wt [kg] |
|--|-------------------|--------|-------------------------|------------|
| 2 position (complete with mounting adapter). | | | | |
| 8 LP2T SL1203 | ∨ | Green | 10 | 0.025 |
| 8 LP2T SL1204 | | Red | 10 | 0.025 |
| 3 position (complete with mounting adapter). | | | | |
| 8 LP2T SL1303 | ∨∨ | Green | 10 | 0.025 |
| 8 LP2T SL1304 | | Red | 10 | 0.025 |

LED integrated monoblock pilot lights, steady light

| Order code | Voltage | LED colour | Qty per pkg n° | Wt [kg] |
|--|----------|------------|-------------------------|------------|
| 2 position (complete with mounting adapter). | | | | |
| 8 LP2T ILA3 | 12VAC/DC | Green | 10 | 0.021 |
| 8 LP2T ILA4 | | Red | 10 | 0.021 |
| 8 LP2T ILB3 | 24VAC/DC | Green | 10 | 0.021 |
| 8 LP2T ILB4 | | Red | 10 | 0.021 |
| 8 LP2T ILE3 | 110VAC | Green | 10 | 0.024 |
| 8 LP2T ILE4 | | Red | 10 | 0.024 |
| 8 LP2T ILM3 | 230VAC | Green | 10 | 0.024 |
| 8 LP2T ILM4 | | Red | 10 | 0.024 |

Accessories

| Order code | Description | Qty per pkg n° | Wt [kg] |
|--|--------------------------------|-------------------------|------------|
| 2 position (complete with mounting adapter). | | | |
| 8 LM2T A140 | Action plug for centre contact | 50 | 0.001 |
| 8 LM2T A130 | Threaded plug for unused holes | 10 | 0.007 |
| 8 LM2T C10 | NO contact | 10 | 0.011 |
| 8 LM2T C01 | NC contact | 10 | 0.011 |

Accessories

Note:
Use the special MX 00 fixing adapter and MX20 or MX21 mounting base instead of the mounting adapter supplied with the pilot device to fix the contacts or lamp holder to the enclosure base; in this manner, the enclosure cover will be cable free.



Modular time relays

| Order code | Time of scale range | Supply voltage | Qty per pkg | Wt |
|------------|---|-----------------------|-------------|-------|
| | | [V] | n° | [kg] |
| TM P | | 24-48VDC 24-240VAC | 1 | 0.048 |
| TM M1 | 0.1-1s 1-10s 6s-1min 1-10min 6min-1h 1-10h | 12-240V AC/DC | 1 | 0.053 |
| TM M2 | 0.1-1 day 1-10 days ON only ❶ OFF only ❶ 3-30 days ❷ 10-100 days ❷ | | | |
| TM PL | | | | |

❶ For TM P, TM M1 and TM M2 only.
❷ For TM PL only.

Protection relays

| Order code | Rated voltage to be controlled Ue | Qty per pkg | Wt |
|------------|-----------------------------------|-------------|------|
| | [V] 50/60Hz | n° | [kg] |

Single-phase system.

Minimum and maximum voltage control.

| | | | |
|------------|------------|---|-------|
| PMV55 A240 | 208-240VAC | 1 | 0.125 |
| PMV55 A440 | 380-440VAC | 1 | 0.125 |

| Order code | Rated voltage to be controlled Ue (phase to phase) | Qty per pkg | Wt |
|------------|--|-------------|------|
| | [V] 50/60Hz | n° | [kg] |

Three-phase system, without neutral.

Phase loss and incorrect phase sequence.

| | | | |
|------------|------------|---|-------|
| PMV10 A440 | 208-440VAC | 1 | 0.050 |
| PMV20 A240 | 100-240VAC | 1 | 0.120 |
| PMV20 A575 | 208-575VAC | 1 | 0.120 |
| PMV20 A600 | 380-600VAC | 1 | 0.120 |

Phase loss, incorrect phase sequence, minimum and maximum voltage control. Delayed tripping.

| | | | |
|------------|------------|---|-------|
| PMV50 A240 | 208-240VAC | 1 | 0.130 |
| PMV50 A575 | 380-575VAC | 1 | 0.130 |
| PMV50 A600 | 600VAC | 1 | 0.130 |

Level control relays

| Order code | Supply voltage | Type of output contacts | Qty per pkg | Wt |
|------------|----------------|-------------------------|-------------|------|
| | [V] | | n° | [kg] |

Automatic resetting

| | | | | |
|------------|------------|-------|---|-------|
| LVM20 A024 | 24VAC | 1 C/O | 1 | 0.220 |
| LVM20 A127 | 110-127VAC | 1 C/O | 1 | 0.220 |
| LVM20 A240 | 220-240VAC | 1 C/O | 1 | 0.220 |
| LVM20 A415 | 380-415VAC | 1 C/O | 1 | 0.220 |

Emptying or filling function.

| | | | | |
|-----------|---------------|-------|---|-------|
| LVM25 240 | 24-240 VAC/DC | 1 C/O | 1 | 0.090 |
|-----------|---------------|-------|---|-------|

Modular priority change relay

2 outputs AC/DC supply voltage.

| | | | | |
|--------|-----------------------|-------|---|-------|
| LVMP05 | 24/48VDC 24-240VAC | 2 N/O | 1 | 0.060 |
|--------|-----------------------|-------|---|-------|





Contactors



Prewired limit switches type KP...



Micro switches type KS...



LVM series level control relays



Digital ammeter and voltmeter type DMK0... and DMK1...



Digital ammeter and voltmeter type DMK7... and DMK8...



LRD series programmable logic relays

Planet-SWITCH

- Motor protection circuit breakers
- Switch disconnectors
- Contactors
- Motor protection relays
- Electromechanical starters
- Push buttons and selectors
- Limit, micro and foot switches
- Rotary cam switches

Planet-DIN

- Modular contactors
- Time relays
- Protection relays
- Level control relays
- Earth leakage relays

Planet-LOGIC

- Digital metering instruments and current transformers
- Soft starters
- AC motor drives
- Automatic power factor controllers
- Automatic battery chargers
- Automatic transfer switch controllers
- Programmable logic relays

The products described in this documentation are subject to be revised or improved at any moment. Catalogue descriptions and details, such as technical and operational data, drawings, diagrams and instructions, etc., do not have any contractual value. In addition, products should be installed and used by qualified personnel and in compliance with the regulations in force for electrical systems in order to avoid damages and safety hazards.

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