

Reversing starter, 3p, 0.09kW/400V/AC3, 150kA

Part no. MSC-R-0,4-M7(24VDC)
Article no. 283191
Catalog No. XTSRP40B007BTDNL



Delivery program

| renvery program | | | |
|---|-----------------|----|--|
| Basic function | | | Reversing starters (complete devices) |
| Basic device | | | MSC |
| | | | IE3 ✓ |
| Votes | | | Also suitable for motors with efficiency class IE3. IE3-ready devices are identified by the logo on their packaging. |
| Motor ratings | | | |
| Motor rating | | | |
| AC-3 | | | |
| 380 V 400 V 415 V | P | kW | 0.09 |
| Rated operational current | I _e | Α | 0.31 |
| Rated short-circuit current 380 - 415 V | I_q | kA | 150 |
| Setting range | | | |
| Setting range of overload releases | l _r | Α | 0.25 - 0.4 |
| Non-delayed | I _{rm} | Α | 6.2 |
| Coordination | | | Type of coordination "1" Type of coordination "2" |
| Contact sequence | | | M 3- |
| | | | |
| Actuating voltage | | | 24 V DC DC voltage |

$\textbf{Motor-protective circuit-breakers} \ \mathsf{PKZM0-0,4}$

Contactor DILM7-01(...)

Reversing starter worong set

Mechanical connection element and electrical contact module and reversing connector PKZM0-XRM12

Notes

The reversing starter (complete unit) consists of a PKZM0 motor-protective circuit-breaker and two DILM contactors.

With the adapter-less top-hat rail mounting of starters up to 12 A, only the motor-protective circuit-breaker on the top-hat rail requires an adapter. The contactors are provided with mechanical support via a mechanical connection element.

Control wire guide with max. 6 conductors up to 2.5mm external diameter or 4 conductors up to 3.5mm external diameter.

From 16 A, the motor-protective circuit-breakers and contactors are mounted on the top-hat rail adapter plate.

The connection of the main circuit between PKZ and contactor is established with electrical contact modules.

Complete units with mechanical interlock, starters up to 12 A also feature electrical interlock.

When using the auxiliary contacts DILA-XHIT... (-> 101042) the plug-in electrical connector can be removed without the removal of the front mounting auxiliary contact.

For further information Technical data PKZM0 Accessories PKZ

Page → PKZM0 → 072896

Technical data General

| Standards | | | UL 508 (on request) CSA C 22.2 No. 14 (on request) |
|---|------------------|------|--|
| Mounting position | | | |
| Main conducting paths | | | |
| Rated impulse withstand voltage | U_{imp} | V AC | 6000 |
| Overvoltage category/pollution degree | | | III/3 |
| Rated operational voltage | U _e | V | 230 - 415 |
| Rated operational current | | | |
| Open, 3-pole: 50 – 60 Hz | | | |
| 380 V 400 V | l _e | Α | 0.4 |
| Additional technical data | | | |
| Motor protective circuit breaker PKZM0, PKE | | | PKZM0 motor-protective circuit-breakers, see motor-protective circuit-breakers/ PKZM0 product group DILM contactors, see contactors product group DILET timing relay, ETR, see contactors, electronic timing relays product group |
| Power consumption | | | |
| DC operated | Sealing | W | 3 |

Design verification as per IEC/EN 61439

| echnical data for design verification | | | |
|--|-------------------|----|--|
| Rated operational current for specified heat dissipation | In | Α | 0.4 |
| Heat dissipation per pole, current-dependent | P _{vid} | W | 1.9 |
| Equipment heat dissipation, current-dependent | P _{vid} | W | 5.7 |
| Static heat dissipation, non-current-dependent | P _{vs} | W | 2.6 |
| Heat dissipation capacity | P _{diss} | W | 0 |
| Operating ambient temperature min. | | °C | -25 |
| Operating ambient temperature max. | | °C | 55 |
| EC/EN 61439 design verification | | | |
| 10.2 Strength of materials and parts | | | |
| 10.2.2 Corrosion resistance | | | Meets the product standard's requirements. |
| 10.2.3.1 Verification of thermal stability of enclosures | | | Meets the product standard's requirements. |
| 10.2.3.2 Verification of resistance of insulating materials to normal heat | | | Meets the product standard's requirements. |
| 10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects | | | Meets the product standard's requirements. |
| 10.2.4 Resistance to ultra-violet (UV) radiation | | | Meets the product standard's requirements. |
| 10.2.5 Lifting | | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.2.6 Mechanical impact | | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.2.7 Inscriptions | | | Meets the product standard's requirements. |
| 10.3 Degree of protection of ASSEMBLIES | | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.4 Clearances and creepage distances | | | Meets the product standard's requirements. |
| 10.5 Protection against electric shock | | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.6 Incorporation of switching devices and components | | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.7 Internal electrical circuits and connections | | | Is the panel builder's responsibility. |
| 10.8 Connections for external conductors | | | Is the panel builder's responsibility. |
| 10.9 Insulation properties | | | |
| 10.9.2 Power-frequency electric strength | | | Is the panel builder's responsibility. |

| 10.9.3 Impulse withstand voltage | Is the panel builder's responsibility. |
|--|--|
| 10.9.4 Testing of enclosures made of insulating material | Is the panel builder's responsibility. |
| 10.10 Temperature rise | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| 10.11 Short-circuit rating | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
| 10.12 Electromagnetic compatibility | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
| 10.13 Mechanical function | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. |

Technical data ETIM 6.0

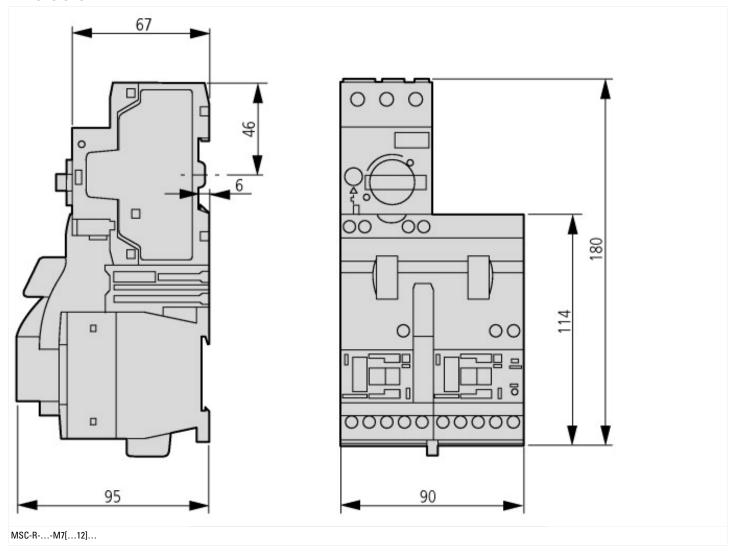
Low-voltage industrial components (EG000017) / Motor starter/Motor starter combination (EC001037)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Load breakout, motor breakout / Motor starter combination (ecl@ss8.1-27-37-09-05

| Electric engineering, automation, process control engineering / Low-voltage switch te [AJZ718010]) | scillology / Load break | tode, motor breakout / motor starter combination (ecressor.1-27-07-03-03 |
|--|-------------------------|--|
| Kind of motor starter | | Reversing starter |
| With short-circuit release | | Yes |
| Rated control supply voltage Us at AC 50HZ | V | 0 - 0 |
| Rated control supply voltage Us at AC 60HZ | V | 0 - 0 |
| Rated control supply voltage Us at DC | V | 24 - 24 |
| Voltage type for actuating | | DC |
| Rated operation power at AC-3, 230 V, 3-phase | kW | 0.06 |
| Rated operation power at AC-3, 400 V | kW | 0.09 |
| Rated power, 460 V, 60 Hz, 3-phase | kW | 0 |
| Rated power, 575 V, 60 Hz, 3-phase | kW | 0 |
| Rated operation current le | Α | 0.31 |
| Rated operation current at AC-3, 400 V | Α | 0.4 |
| Overload release current setting | Α | 0.25 - 0.4 |
| Rated conditional short-circuit current, type 1, 480 Y/277 V | Α | 0 |
| Rated conditional short-circuit current, type 1, 600 Y/347 V | Α | 0 |
| Rated conditional short-circuit current, type 2, 230 V | Α | 50000 |
| Rated conditional short-circuit current, type 2, 400 V | Α | 50000 |
| Number of auxiliary contacts as normally open contact | | 0 |
| Number of auxiliary contacts as normally closed contact | | 0 |
| Ambient temperature, , upper operating limit | °C | 60 |
| Temperature compensated overload protection | | Yes |
| Release class | | CLASS 10 |
| Type of electrical connection of main circuit | | Screw connection |
| Type of electrical connection for auxiliary- and control current circuit | | Screw connection |
| Rail mounting possible | | Yes |
| Degree of protection (IP) | | IP20 |
| Supporting protocol for TCP/IP | | No |
| Supporting protocol for PROFIBUS | | No |
| Supporting protocol for CAN | | No |
| Supporting protocol for INTERBUS | | No |
| Supporting protocol for ASI | | No |
| Supporting protocol for MODBUS | | No |
| Supporting protocol for Data-Highway | | No |
| Supporting protocol for DeviceNet | | No |
| Supporting protocol for SUCONET | | No |
| Supporting protocol for LON | | No |
| Supporting protocol for PROFINET IO | | No |
| Supporting protocol for PROFINET CBA | | No |
| Supporting protocol for SERCOS | | No |
| Supporting protocol for Foundation Fieldbus | | No |
| Supporting protocol for EtherNet/IP | | No |
| Supporting protocol for AS-Interface Safety at Work | | No |

| Supporting protocol for DeviceNet Safety | No |
|---|----|
| Supporting protocol for INTERBUS-Safety | No |
| Supporting protocol for PROFIsafe | No |
| Supporting protocol for SafetyBUS p | No |
| Supporting protocol for other bus systems | No |

Dimensions



Additional product information (links)

| The state of the s | |
|--|---|
| IL03402006Z (AWA1210-2248) Reversing starter to 12 A | |
| IL03402006Z (AWA1210-2248) Reversing starter to 12 A | ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03402006Z2016_08.pdf |
| Motor starters and "Special Purpose Ratings" for the North American market | http://www.moeller.net/binary/ver_techpapers/ver953en.pdf |
| Busbar Component Adapters for modern Industrial control panels | http://www.moeller.net/binary/ver_techpapers/ver960en.pdf |