

Reversing starter, 3p, 11kW/400V/AC3, 50kA, +busbar adapter

Powering Business Worldwide*

Part no. MSC-R-25-M25(230V50HZ)/BBA
Article no. 102995
Catalog No. XTSR025B025CFNL-A

Delivery program

| Basic function | | | Reversing starters (complete devices) |
|---|-----------------|----|--|
| Basic device | | | MSC |
| | | | IE3 ✓ |
| Notes | | | 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 | Р | kW | 11 |
| Rated operational current | l _e | Α | 21.7 |
| Rated short-circuit current 380 - 415 V | Iq | kA | 50 |
| Setting range | | | |
| Setting range of overload releases | I _r | A | 20 - 25 |
| Non-delayed | I _{rm} | A | 388 |
| Coordination | | | Type of coordination "1" Type of coordination "2" |
| Contact sequence | | | M 3- |
| Actuating voltage | | | 230 V 50 Hz |
| | | | AC voltage |

Motor-protective circuit-breakers PKZM0-25

Contactor DILM25-01(...)

DOL starter wiring set

Mechanical connection element and electrical electric contact module PKZM0-XM32DE + DILM32-XRL

Notes

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

These conbinations are mounted on the busbars.

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.

Further information Technical data PKZM0 Accessories PKZ Technical data DILM

DIL accessories

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→ PKZM0

→ 072896

→ DILM

→ 281199

Technical data

General

Standards UL 508 (on request)

| | | | CSA C 22.2 No. 14 (on request) |
|---|----------------|------|---|
| 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 | 25 |
| 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 |
| DILM contactors | | | |
| Power consumption of the coil in a cold state and 1.0 x $\rm U_{\rm C}$ | | | |

W

2.1

Sealing

Design verification as per IEC/EN 61439

Dual-voltage coil 50 Hz

| - · | | | |
|--|-------------------|----|--|
| Technical data for design verification | | | |
| Rated operational current for specified heat dissipation | In | Α | 25 |
| Heat dissipation per pole, current-dependent | P _{vid} | W | 5 |
| Equipment heat dissipation, current-dependent | P _{vid} | W | 15 |
| Static heat dissipation, non-current-dependent | P _{vs} | W | 2.1 |
| Heat dissipation capacity | P _{diss} | W | 0 |
| Operating ambient temperature min. | | °C | -25 |
| Operating ambient temperature max. | | °C | 55 |
| IEC/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 tech [AJZ718010]) | hnology / Load brea | kout, motor breakout / Motor starter combination (ecl@ss8.1-27-37-09-05 |
|--|---------------------|---|
| Kind of motor starter | | Reversing starter |
| With short-circuit release | | Yes |
| Rated control supply voltage Us at AC 50HZ | V | 230 - 230 |
| Rated control supply voltage Us at AC 60HZ | V | 0 - 0 |
| Rated control supply voltage Us at DC | V | 0 - 0 |
| Voltage type for actuating | | AC |
| Rated operation power at AC-3, 230 V, 3-phase | kW | 5.5 |
| Rated operation power at AC-3, 400 V | kW | 11 |
| 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 | 21.7 |
| Rated operation current at AC-3, 400 V | Α | 25 |
| Overload release current setting | А | 20 - 25 |
| Rated conditional short-circuit current, type 1, 480 Y/277 V | Α | 0 |
| Rated conditional short-circuit current, type 1, 600 Y/347 V | А | 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) | | IP00 |
| 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 TO Supporting protocol for PROFINET CBA | | No |
| Supporting protocol for PROFINET CDA Supporting protocol for SERCOS | | |
| Supporting protocol for Sencus Supporting protocol for Foundation Fieldbus | | No No |
| | | No No |
| Supporting protocol for EtherNet/IP | | No No |
| Supporting protocol for AS-Interface Safety at Work | | No 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 67 00 180 9 90 97.4 10

1 I = 73 mm

MSC-R-...-M17[...32]BBA...

| Additional product information (links) | | |
|--|---|--|
| 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 | |
| IL03402015Z (AWA1210-2324) Busbar adapter | | |
| IL03402015Z (AWA1210-2324) Busbar adapter | ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03402015Z2010_10.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 | |

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