



283171 MSC-R-0,25-M7(230V50HZ)

Overview

Specifications

Resources







DELIVERY PROGRAM

Delivery program

Technical data

Basic function

Reversing starters (complete devices)

Design verification as per IEC/EN 61439

Basic device MSC

Technical data ETIM7.0



Notes

Also suitable for motors with efficiency class IE3.

Dimensions

Connection technique Screw terminals

Connection to SmartWire-DT no

Motor ratings

Motor rating [P] AC-3 380 V 400 V 415 V [P] 0.06 kW

Rated operational current AC-3 380 V 400 V 415 V [le] 0.21 A

Rated short-circuit current 380 - 415 V [l_q] 150 kA

Setting range

Setting range of overload releases [I_r] 0.16 - 0.25 A

Coordination
Type of coordination "1"
Type of coordination "2"

Contact sequence



Actuating voltage 230 V 50 Hz, 240 V 60 Hz

AC voltage

Motor-protective circuit-breakers PKZM0-0,25 Type

Contactor DILM7-01(...) Part no.

DOL starter wiring set

Mechanical connection element and electrical electric contact module PKZM0-XRM12 Type

Notes

The reversing starter (complete unit) consists of a PKZIV0 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-XHT... (\square 101042) the plug-in electrical connector can be removed without the removal of the front mounting auxiliary contact.

For further information	Page
Technical data PKZM0	□ PKZM0
Accessories PKZ	□ 072896
Technical data DILM	
Further actuating voltages	□ 276537
DILMaccessories	□ 281199

TECHNICAL DATA

General

Standards

UL 508 (on request) CSA C 22.2 No. 14 (on request)

Mounting position

Altitude Max. 2000 m

Ambient temperature -25 - +55

Main conducting paths

Rated impulse withstand voltage [U_{mp}] 6000 V AC

Overvoltage category/pollution degree III/3

Rated operational voltage $[U_e]$ 230 - 415 V

Rated operational current Open, 3-pole: 50 – 60 Hz 380 V 400 V [l_e] 0.25 A

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 contactor product group DILET timing relay, ETR, see contactors, electronic timing relays product group

DlLM contactors Power consumption of the coil in a cold state and 1.0 x U_S Dual-voltage coil 50 Hz [Sealing] 1.2 W

DESIGN VERIFICATION AS PER IEC/EN 61439

Technical data for design verification

Rated operational current for specified heat dissipation $[\mbox{\ensuremath{|}}_l]$

Heat dissipation per pole, current-dependent $[P_{id}]$ 1.9 W

Equipment heat dissipation, current-dependent $[P_{id}]$ 5.7 W

Static heat dissipation, non-current-dependent [P_{vs}] 1.4 W

Heat dissipation capacity [P_{diss}] 0 W

Operating ambient temperature min. -25 °C

Operating ambient temperature max. +55 °C

IEC/EN 61439 design verification

10.2 Strength of materials and parts10.2.2 Corrosion resistanceMeets the product standard's requirements.

10.2 Strength of materials and parts 10.2.3.1 Verification of thermal stability of enclosures Meets the product standard's requirements.

10.2 Strength of materials and parts10.2.3.2 Verification of resistance of insulating materials to normal heatWeets the product standard's requirements.

10.2 Strength of materials and parts
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 Strength of materials and parts 10.2.4 Resistance to ultra-violet (UV) radiation Weets the product standard's requirements. 10.2 Strength of materials and parts10.2.5 LiftingDoes not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts10.2.6 Mechanical impactDoes not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts10.2.7 InscriptionsMeets the product standard's requirements.

10.3 Degree of protection of ASSEVBLIES 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 Insulation properties 10.9.3 Impulse withstand voltage Is the panel builder's responsibility.

10.9 Insulation properties 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 7.0

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@ss10.0.1-27-37-09-05 [AJZ718013])

Kind of motor starter Reversing starter

With short-circuit release Yes

Rated control supply voltage Us at AC 50HZ 230 - 230 V

Rated control supply voltage Us at AC 60HZ 0 - 0 V $\,$

Rated control supply voltage Us at DC 0 - 0 V

Rated operation power at AC-3, 230 V, 3-phase 0.04 kW Rated operation power at AC-3, 400 V 0.06 kW Rated power, 460 V, 60 Hz, 3-phase 0 kW Rated power, 575 V, 60 Hz, 3-phase 0 kW Rated operation current le 0.21 A Rated operation current at AC-3, 400 V 0.25 A Overload release current setting 0.25 - 0.25 A Rated conditional short-circuit current, type 1, 480 Y/277 V 0 A Rated conditional short-circuit current, type 1, 600 Y/347 V 0 A Rated conditional short-circuit current, type 2, 230 50 A Rated conditional short-circuit current, type 2, 400 50 A Number of auxiliary contacts as normally open contact 0

Number of auxiliary contacts as normally closed

Voltage type for actuating

AC

contact 0			
Ambient temperatur 60°C	re, upper operating limit		
Temperature compe Yes	ensated overload protection		
Release class CLASS 10 A			
Type of electrical of Screw connection	onnection of main circuit		
Type of electrical control current circonscribed Screw connection	onnection for auxiliary- and uit		
Rail mounting possil Yes	ble		
With transformer No			
Number of comman 0	d positions		
Suitable for emerge No	ency stop		
Coordination class a	according to IEC 60947-4-3		
Number of indicator 0	· lights		
External reset poss No	ible		
With fuse No			
Degree of protectio	n (IP)		

IP20
Degree of protection (NEVA) Other
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 EtherNet/IP Supporting protocol for AS-Interface Safety at Work No Supporting protocol for DeviceNet Safety Supporting protocol for INTERBUS-Safety Supporting protocol for PROFIsafe No Supporting protocol for SafetyBUS p Supporting protocol for other bus systems Width 90 mm Height 180 mm Depth 95 mm

DIMENSIONS

Supporting protocol for Foundation Fieldbus



MSC-R-...-M7[...12]...







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