



MSC-D-0,63-M7(230V50HZ)/BBA

Overview

Specifications

Resources







DELIVERY PROGRAM

Delivery program

Technical data

Design verification as per IEC/EN 61439

Technical data ETIM 7.0

Approvals

Dimensions

Basic function DOL starters (complete devices)

Basic device MSC



Notes

Also suitable for motors with efficiency class IE3.

Connection technique Screw terminals

Connection to SmartWire-DT no

Motor ratings

Motor rating [P] AC-3 380 V 400 V 415 V [P] 0.12 0.18 kW

Rated operational current AC-3 380 V 400 V 415 V [I_e] 0.41 0.6 A

Rated short-circuit current 380 - 415 V [Iq] 100 kA

Setting range

Setting range of overload releases $\[\[\]\]$ [$\[\]\]$ 0.4 - 0.63 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 PKZM0-0,63 Type

Contactor DILM7-10(...) Part no.

DOL starter wiring set

Mechanical connection element and electrical electric contact module PKZN0-XDM12 Type

Notes

BK25/3-PKZ0-E extension terminal and if necessary B3.../...-PKZ0 three-phase commoning link can be added to motor-starter combinations to make Type F starters in accordance with UL508.

Notes

The DOL starters (complete units) consist of a PKZM0 motor protective circuit breaker and a DILM contactor. These combinations are mounted on the busbar adapters.

The connection of the main circuit between the motor protective circuit breaker and the contactor is established with an electrical contact module.

Cannot be combined with NH-E-...-PKZ0-C standard auxiliary contact with spring-cage terminal.

Further information	Page
Technical data PKZM0	□ PKZM0
Accessories PKZ	□ 072896
Technical data DILM	
Accessories DILM	□ 281199

TECHNICAL DATA

General

Standards

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

Altitude Max. 2000 m

Ambient temperature -25 - +55

Main conducting paths

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

Overvoltage category/pollution degree

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

Rated operational current Open, 3-pole: 50 – 60 Hz 380 V 400 V [l_e] 0.63 A

Additional technical data

Motor protective circuit breaker PKZMO, PKE PKZMO motor-protective circuit-breakers, see motor-protective circuit-breakers/PKZMO product group DILM contactors, see contactor 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 U_S Dual-voltage coil 50 Hz [Sealing] 1.2 W

Rating data for approved types

Auxiliary contacts Fllot Duty AC operated A600

Auxiliary contacts Fllot Duty DC operated P300

Auxiliary contacts General Use AC 600 V

Auxiliary contacts General Use AC 15 A Auxiliary contacts General Use DC 250 V

Auxiliary contacts General Use DC 1 A

DESIGN VERIFICATION AS PER IEC/EN 61439

Technical data for design verification

Rated operational current for specified heat dissipation [I_n] 0.63 A

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 [$P_{\!\scriptscriptstyle NS}$] 1.4 W

Heat dissipation capacity $[P_{\text{diss}}]$ 0 W

Operating ambient temperature min. -25 $^{\circ}$ C

Operating ambient temperature max. +55 $^{\circ}$ 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 parts
10.2.5 Lifting
Does 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 Weets 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)

Bectric engineering, automation, process control engineering / Low-voltage switch technology / Load

Kind of motor starter Direct 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 0-0V Rated control supply voltage Us at DC 0-0V Voltage type for actuating AC Rated operation power at AC-3, 230 V, 3-phase 0.09 kW Rated operation power at AC-3, 400 V 0.18 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 0.6 A Rated operation current at AC-3, 400 V 0.63 A Overload release current setting 0.4 - 0.63 A Rated conditional short-circuit current, type 1, 480

Y/277 V 0 A

Y/347 V 0 A
Rated conditional short-circuit current, type 2, 230 V 50000 A
Rated conditional short-circuit current, type 2, 400 V 50000 A
Number of auxiliary contacts as normally open contact 1
Number of auxiliary contacts as normally closed contact 0
Ambient temperature, upper operating limit 60 °C
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
With transformer No
Number of command positions

No
Coordination class according to IEC 60947-4-3 Class 2
Number of indicator lights 0
External reset possible No
With fuse No
Degree of protection (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 SUCONET Supporting protocol for LON Supporting protocol for PROFINET IO Supporting protocol for PROFINET CBA Supporting protocol for SERCOS Supporting protocol for Foundation Fieldbus Supporting protocol for EtherNet/IP 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 Supporting protocol for SafetyBUS p No Supporting protocol for other bus systems No

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Width 45 mm Height 200 mm

Depth 154 mm

APPROVALS

Product Standards UL60947-4-1A; CSA-C22.2 No. 14-10; IEO60947-4-1; CE marking

UL File No. E123500

UL Category Control No. NKJH

CSA File No. 12528

CSA Class No. 3211-04

North America Certification UL listed, CSA certified

Specially designed for North America No

DIMENSIONS



□ I = 73 mm







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