



Motor rating [P] AC-3 380 V 400 V 415 V [P] 15 kW

Rated operational current AC-3 380 V 400 V 415 V [le] 29.3 A

Rated short-circuit current 380 - 415 V [l_q] 50 kA

Setting range

Setting range of overload releases [], 25 - 32 A

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

Contact sequence



Actuating voltage 230 V 50 Hz, 240 V 60 Hz

AC

Motor-protective circuit-breakers PKZMD-32 Type

Contactor DILVB2-10(...) Part no.

DOL starter wiring set

Nechanical connection element and electrical electric contact module PKZMD-XDV32 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 starter (complete device) consists of a PKZMD motor protective circuit breaker and a DILM contactor.

With the adapter-less top-hat rail mounting of starters up to 15 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 2.5°mm external diameter or 4 conductors up to 3.5°mm external diameter.

From 16 A, the motor protective circuit breaker and contactor 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.

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

TECHNICAL DATA

General

Standards IEC/EN 60947-4-1, VDE 0660

Mbu	unting	positior
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	OBORO	

Ambient temperature -25 - +55

Main conducting paths

Rated impulse withstand voltage $[\rm U_{imp}]$ 6000 V AC

 $\label{eq:constraint} \begin{aligned} & \text{Overvoltage category/pollution degree} \\ & \text{III/3} \end{aligned}$

Rated operational voltage [U_e] 230 - 415 V

Rated operational current Open, 3-pole: 50 – 60 Hz 380 V 400 V [le] 32 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

DILM contactors Ourrent heat loss Ourrent heat loss at I_e to AC-3/400 V 19.5 W

DILM contactors Power consumption of the coil in a cold state and 1.0 x U_{S} Dual-voltage coil 50 Hz [Sealing] 2.1 W

Rating data for approved types

Auxiliary contacts Filot Duty AC operated A600

Auxiliary contacts Plot 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

Short Orcuit Ourrent Rating Basic Rating SOOR 5 kA

Short Orcuit Ourrent Rating Basic Rating max. Fuse 1 A

Short Orcuit Ourrent Rating Basic Rating max. CB 15 A

DESIGN VERIFICATION AS PER IEC/EN 61439

Technical data for design verification

Rated operational current for specified heat dissipation $\left[I_{n}\right]$ 32 A

Equipment heat dissipation, current-dependent [P_{id}] 19.5 W

Static heat dissipation, non-current-dependent $[P_{\nu s}]$ 2.1 W

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

Operating ambient temperature min. -25 °C

Operating ambient temperature max. +55 $^\circ\mathrm{C}$

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 Neets the product standard's requirements.

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

10.2 Strength of materials and parts10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effectsMeets the product standard's requirements.

10.2 Strength of materials and parts10.2.4 Resistance to ultra-violet (UV) radiationMeets 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 properties10.9.2 Power-frequency electric strengthIs the panel builder's responsibility.

10.9 Insulation properties10.9.3 Impulse withstand voltageIs the panel builder's responsibility.

10.9 Insulation properties10.9.4 Testing of enclosures made of insulating materialIs 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 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 - 0 V $\,$

Rated control supply voltage Us at DC 0 - 0 V

Voltage type for actuating AC

Rated operation power at AC-3, 230 V, 3-phase 7.5 kW

Rated operation power at AC-3, 400 V 15 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 29.3 A

Rated operation current at AC-3, 400 V 32 A

Overload release current setting 32 - 32 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 V 50 A

Rated conditional short-circuit current, type 2, 400 V 50 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 $^{\circ}\mathrm{C}$

Temperature compensated overload protection Yes

Release class CLASS 10 A

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 0

Suitable for emergency stop 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) IP00

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 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

Width 45 mm

Height 228 mm

Depth 123.4 mm

APPROVALS

Product Standards IEC/EN 60947-4-1; UL 60947-4-1; CSA - C22.2 No. 60947-4-1-14; CE marking

UL File No. E36332

UL Category Control No. NLRV CSA File No. 12528

CSA Class No. 3211-24

North America Certification UL listed, CSA certified

Specially designed for North America No

DIMENSIONS



MSC-D-...-M17[...32]...





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