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#### Worldwide English



MSC-D-32-M82(230V50HZ)/BBA - DOL starter, 380 V 400 V 415 V: 15 kW, Ir= 25 - 32 A, 230 V 50 Hz, 240 V 60 Hz, AC voltage



102963 MSC-D-32-M32(230V50HZ)/BBA Overview Specifications Resources



- Delivery program
- Technical data
- Design verification as per IEC/EN 61439
- Technical data ETIM 7.0
- Approvals
- Dimensions

# 102963 MSC-D-32-M32(230V50HZ)/BBA

DOL starter, 380 V 400 V 415 V: 15 kW, lr=25 - 32 A, 230 V 50 Hz, 240 V 60 Hz, AC voltage Alternate Catalog No. XTSC032B032CFNL-A

EL-Nurmer (Norway) 4315424

DOL starter, Basic device: MSC, Notes: Also suitable for motors with efficiency class IE3, Motor ratings Motor rating AC-3 380 V 400 V 415 V: P= 15 kW, Setting range of overload releases: Ir= 25 - 32 A, Coordination: Type of coordination "1", Type of coordination "2", Actuating voltage: 230 V 50 Hz, 240 V 60 Hz, AC voltage, Standards: UL 508 (on request), CSA C 22.2 No. 14 (on request)

## Delivery program

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 [PIAC-3380 V 400 V 415 V [P]

15 kW

Rated operational currentAC-3380 V 400 V 415 V [le]

29.3 A

Rated short-circuit current 380 - 415 V [lq]

50 kA

Setting range

Setting range of overload releases [I<sub>r</sub>]

25 - 32 A

Coordination

Type of coordination "1"

Type of coordination "2" Contact sequence



2

Actuating voltage 230 V 50 Hz, 240 V 60 Hz

AC voltage

Motor-protective circuit-breakers

PKZM0-32 Type

Contactor

DILM32-10(...) Part no.

DOL starter wiring set

Mechanical connection element and electrical electric contact module

PKZM0-XM32DE 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	
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<sub>imp</sub>]

6000 V AC

Overvoltage category/pollution degree

111/3

Rated operational voltage [Ue]

230 - 415 V

Rated operational currentOpen, 3-pole: 50 - 60 Hz380 V 400 V [Le]

32 A

Additional technical data

Motor protective circuit breaker PKZMO, 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 Power consumption of the coil in a cold state and 1.0 x  $U_8$  Dual-voltage coil 50 Hz [Sealing] 2.1 W

Rating data for approved types

Auxiliary contacts Plot Duty AC operated

A600

Auxiliary contacts Plot Duty DC operated

P300

Auxiliary contactsGeneral UseAC

600 V

Auxiliary contacts General UseAC

15 A

Auxiliary contacts General UseDC

250 V

Auxiliary contacts General UseDC

1 A

Short Circuit Current RatingBasic RatingSCOR

5 kA

Short Circuit Current RatingBasic Ratingmax. Fuse

1 A

Short Circuit Current RatingBasic Ratingmax. CB

15 A

### Design verification as per IEC/EN 61439

Technical data for design verification

Rated operational current for specified heat dissipation [In]

32 A

Heat dissipation per pole, current-dependent [P<sub>vid</sub>]

7.4 W

Equipment heat dissipation, current-dependent [Pvid]

22.2 W

Static heat dissipation, non-current-dependent [P<sub>s</sub>]

2.1 W

Heat dissipation capacity [P<sub>diss</sub>]

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 parts 10.2.2 Corrosion resistance

Meets 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 parts 10.2.3.2 Verification of resistance of insulating materials to normal heat

Meets 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

Meets 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 parts 10.2.6 Mechanical impact

Does not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts 10.2.7 Inscriptions

Meets 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.

 $10.9\ ln sulation\ properties 10.9.2\ Pow\,er-frequency\ electric\ strength$ 

Is the panel builder's responsibility.

10.9 Insulation properties 10.9.3 Impulse with stand 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 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

0-0V

Rated control supply voltage Us at DC

0-0V

Voltage type for actuating

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

25 - 32 A

Rated conditional short-circuit current, type 1, 480 Y/277 V

Rated conditional short-circuit current, type 1, 600 Y/347 V

Rated conditional short-circuit current, type 2, 230 V

50000 A

Rated conditional short-circuit current, type 2, 400 V

Number of auxiliary contacts as normally open contact

Number of auxiliary contacts as normally closed contact

Ambient temperature, upper operating limit

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

Number of command positions

Suitable for emergency stop

Coordination class according to IEC 60947-4-3

Class 2

Number of indicator lights

External reset possible

With fuse

No

Degree of protection (IP)

Degree of protection (NEMA)

Supporting protocol for TCP/IP

Supporting protocol for PROFIBUS

Supporting protocol for CAN

Supporting protocol for INTERBUS

Supporting protocol for ASI

Supporting protocol for MODBUS

Supporting protocol for Data-Highway

Supporting protocol for DeviceNet

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

Supporting protocol for DeviceNet Safety

Supporting protocol for INTERBUS-Safety

Supporting protocol for PROFIsafe

Supporting protocol for SafetyBUS p

Supporting protocol for other bus systems

Width

45 mm

Height

200 mm

Depth 156 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

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

# **CAD** data

- Product-specific CAD data (Web)
- 3D Preview (Web)

### **DWG** files

DA-CD-msc\_d\_bba\_bg2File (Web)

### edz files

DA-CE-ETN.MSC-D-32-M32(230V50HZ)\_BBA File (Web)

## Step files

DA-CS-msc\_d\_bba\_bg2File (Web)

# Additional product information

- Motor starters and "Special Purpose Ratings" for the North American market (PDF)
- Busbar Component Adapters for modern Industrial control panels (PDF)

# **Product photo**



Photo

DOL starter on busbar adapter

# 3D drawing



#### 2115DRW-14

Line drawing

DOL starter on busbar adapter

# Dimensions single product



Line drawing

DOL starter on busbar adapter

□ I = 73 mm

### **Standards**



Logo

IE3-ready logo 4c

# Wiring diagram



1210SWI-16

Line drawing

DOL starter complete device

## **Instruction Leaflet**

• Direct-on-line starter to 32 A (IL03402010Z)

Asset

(PDF, multilingual)

• Busbar adapter (IL03402015Z)

Asset

(PDF, multilingual)

## **Download-Center**

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Eaton EVEA Download-Center - download data for this item

• Download-Center

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