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Worldwide English



MSC-DM-12-M12(24VDC)/MSFA - DOL starter, 380 V 400 V 415 V: 5.5 kW, Ir= 8 - 12 A, 24 V DC, DC voltage



191112 MSC-DM-12-M12(24VDC)/MSFA

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191112 MSC-DM-12-M12(24VDC)/MSFA

DOL starter, 380 V 400 V 415 V: 5.5 kW, Ir= 8 - 12 A, 24 V DC, DC voltage

Alternate Catalog No.

XTSC012B012BMTDNL-FS

EL-Nummer (Norway)

4100177

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= 5.5 kW, Setting range of overload releases: Ir= 8 - 12 A,
Coordination: Type of coordination "1", Actuating voltage: 24 V DC, DC voltage, Standards: UL 508 (on request), CSA C 22.2 No. 14 (on request)

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• [Technical data](#)

• [Design verification as per IEC/EN 61439](#)

• [Technical data ETIM 7.0](#)

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

5.5 kW

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

11.3 A

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

100 kA

Setting range

Setting range of overload releases  [I_R]

8 - 12 A

Coordination

Type of coordination "1"

Contact sequence



Actuating voltage

24 V DC

DC voltage

Motor-protective circuit-breakers

PKZM0-12 Type

Contactors

DILM12-10(...) Part no.

DOL starter wiring set

Mechanical connection element and electrical electric contact module

PKZM0-XDM15ME Type

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.

Further information Page

Technische Daten PKZM0	PKZM0
Zusatzausrüstung PKZ	072896
Technische Daten DILM	DILM
Zusatzausrüstung 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_{imp}]

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 [I_e]

12 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

Power consumption

DC operated [Sealing]

2.6 W

Design verification as per IEC/EN 61439

Operating ambient temperature min.

-25 °C

Operating ambient temperature max.

+55 °C

Technical data ETIM 7.0

Low-voltage industrial components (EG000017) / Motor starter/Motor starter combination (EG001037)

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 U_s at AC 50Hz

0 - 0 V

Rated control supply voltage U_s at AC 60Hz

0 - 0 V

Rated control supply voltage U_s at DC

24 - 24 V

Voltage type for actuating

DC

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

3 kW

Rated operation power at AC-3, 400 V

5.5 kW

Rated power, 460 V, 60 Hz, 3-phase

0 kW

Rated power, 575 V, 60 Hz, 3-phase

0 kW

Rated operation current I_e

11.3 A

Rated operation current at AC-3, 400 V

12 A

Overload release current setting

8 - 12 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

0 A

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

0 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

0

Suitable for emergency stop

No

Coordination class according to IEC 60947-4-3

Class 1

Number of indicator lights

0

External reset possible

No

With fuse

No

Degree of protection (IP)

IP20

Degree of protection (NEMA)

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

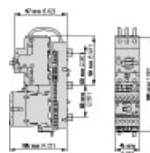
Supporting protocol for other bus systems
No

Width
45 mm

Height
180 mm

Depth
115 mm

Dimensions



CAD data

- [Product-specific CAD data](#)
(Web)
- [3D Preview](#)
(Web)

DWG files

- [DA-CD-msc_dm_rfesa](#)
File
(Web)

edz files

- [DA-CE-ETN.MSC-DM-12-M12\(24VDC\)_MSFA](#)
File
(Web)

Step files

- [DA-CS-msc_dm_mfsa](#)
File
(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)

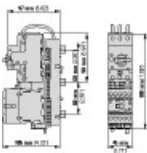
Product photo

- 
[2115PIC-61](#)
Photo

3D drawing

- 
[2115DRW-51](#)
Line drawing

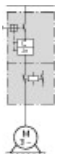
Dimensions single product

- 
[2115DIM-17](#)
Line drawing

Standards

- 
[0000SPC-571](#)
Logo
IE3-ready logo 4c

Wiring diagram

- 
[1210SW-16](#)
Line drawing
DOL starter complete device

Instruction Leaflet

- [adapter \(IL015082ZU\)](#)

Asset

(PDF, multilingual)

- [Electrical Spacer for PKZ Motor protection switch \(IL034030ZU\)](#)

Asset

former AWA2100-1846, Pub51206

(PDF, 07/2021, multilingual)

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