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Powering Business Worldwide

MSC-DM-1-M7(230V50HZ)/MSFA - DOL starter, 380 V 400 V 415 V: 0.25 kW, Ir= 0.63 - 1 A, 230 V 50 Hz, 240 V 60 Hz, AC voltage



191117 MSC-DM-1-M7(230V50HZ)/MSFA

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# 191117 MSC-DM-1-M7(230V50HZ)/MSFA

DOL starter, 380 V 400 V 415 V: 0.25 kW, Ir= 0.63 - 1 A, 230 V 50 Hz, 240 V 60 Hz, AC voltage

Alternate Catalog No.

XTSC001B007BMFNL-FS

EL-Nummer (Norway)

4100182

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= 0.25 kW, Setting range of overload releases: Ir= 0.63 - 1 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)

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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]

0.25 kW

Rated operational currentAC-3380 V 400 V 415 V [I<sub>N</sub>]

0.8 A

Rated short-circuit current 380 - 415 V [I<sub>k</sub>]

100 kA

**Setting range**

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

0.63 - 1 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

PKZM0-1 Type

### Contactor

DILM7-10(...) 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 | <a href="#">PKZM0</a>  |
| Zusatzausrüstung PKZ   | <a href="#">072896</a> |
| Technische Daten DILM  | <a href="#">DILM</a>   |
| Zusatzausrüstung DILM  | <a href="#">281199</a> |

## 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 [ $U_n$ ]

230 - 415 V

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

1 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 Power consumption of the coil in a cold state and  $1.0 \times U_n$  Dual-voltage coil 50 Hz [Sealing]

1.4 W

## Design verification as per IEC/EN 61439

Operating ambient temperature min.

-25 °C

Operating ambient temperature max.

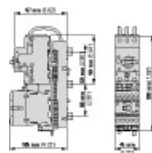
+55 °C

## Technical data ETIM 7.0

Low-voltage industrial components (EG000017) / Motor starter/Motor starter combination (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  $U_s$  at AC 50Hz  
 230 - 230 V  
 Rated control supply voltage  $U_s$  at AC 60Hz  
 0 - 0 V  
 Rated control supply voltage  $U_s$  at DC  
 0 - 0 V  
 Voltage type for actuating  
 AC  
 Rated operation power at AC-3, 230 V, 3-phase  
 0.12 kW  
 Rated operation power at AC-3, 400 V  
 0.25 kW  
 Rated power, 460 V, 60 Hz, 3-phase  
 0 kW  
 Rated power, 575 V, 60 Hz, 3-phase  
 0 kW  
 Rated operation current  $I_e$   
 0.8 A  
 Rated operation current at AC-3, 400 V  
 1 A  
 Overload release current setting  
 0.63 - 1 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  
 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  
 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)  
 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 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\\_mfsa](#)

File  
(Web)

## edz files

- [DA-CE-ETN.MSC-DM-1-M7\(230V50HZ\)\\_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)

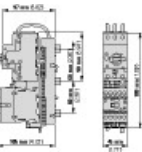
## Product photo

-   
[2115PIC-61](#)  
Photo

## 3D drawing

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

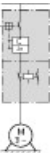
## Dimensions single product

-   
[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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