



191109  
MSC-DM-6,3-M7(24VDC)/MSFA

Overview

Specifications

Resources



Delivery program

Technical data

Design verification as  
per IEC/EN 61439

Technical data ETIM 7.0

Dimensions

## 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-3  
380 V 400 V 415 V [P]  
2.2 kW

Rated operational current  
AC-3  
380 V 400 V 415 V [I<sub>e</sub>]  
5 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>]  
4 - 6.3 A

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

Contact sequence



Actuating voltage  
24 V DC

DC voltage

**Motor-protective circuit-breakers**  
PKZM0-6,3 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 [ $U_e$ ]  
230 - 415 V

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

### Additional technical data

Motor protective circuit breaker PKZMD, PKE  
 PKZMD motor-protective circuit-breakers, see  
 motor-protective circuit-breakers/PKZMD 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 (EQ001037)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Load  
 breakout, motor breakout / Motor starter combination (ec1@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 50-Hz  
 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  
1.5 kW

Rated operation power at AC-3, 400 V  
2.2 kW

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

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

Rated operation current  $I_e$   
5 A

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

Overload release current setting  
4 - 6.3 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 (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

