



191120
MSC-DM-4-M7(230V50HZ)/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]
1.1
1.5 kW

Rated operational current
AC-3
380 V 400 V 415 V [I_e]
2.6
3.6 A

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

Setting range

Setting range of overload releases  [I_n]
2.5 - 4 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
PKZM0-4 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	□ 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]
4 A

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

DILM contactors
Power consumption of the coil in a cold state and
 $1.0 \times U_s$
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 (EQ001037)

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 50-Hz

230 - 230 V

Rated control supply voltage U_s at AC 60 Hz
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
0.75 kW

Rated operation power at AC-3, 400 V
1.5 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
3.6 A

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

Overload release current setting
2.5 - 4 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

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

