### **DATASHEET - MSC-R-6,3-M7(230V50HZ)**



Reversing starter, 380 V 400 V 415 V: 2.2 kW, Ir= 4 - 6.3 A, 230 V 50 Hz, 240 V 60 Hz, AC voltage



Powering Business Worldwide

MSC-R-6,3-M7(230V50HZ) Part no. Catalog No. 283181

4365057

XTSR6P3B007BFNL

**Alternate Catalog** 

No.

**EL-Nummer** (Norway)

### **Delivery program**

Delivery program			
Basic function			Reversing starters (complete devices)
Basic device			MSC
			IE3 ✓
Notes			Also suitable for motors with efficiency class IE3. IE3-ready devices are identified by the logo on their packaging.
Connection technique			Screw terminals
Connection to SmartWire-DT			no
Motor ratings			
Motor rating			
AC-3			
380 V 400 V 415 V	Р	kW	2.2
Rated operational current			
AC-3			
380 V 400 V 415 V	l <sub>e</sub>	Α	5
Rated short-circuit current 380 - 415 V	Iq	kA	150
Setting range			
Setting range of overload releases	I <sub>r</sub>	A	4 - 6.3
Coordination			Type of coordination "1" Type of coordination "2"
Contact sequence			M 3-
Actuating voltage			230 V 50 Hz, 240 V 60 Hz
			AC voltage

Motor-protective circuit-breakers PKZM0-6,3

Contactor DILM7-01(...)

### **DOL** starter wiring set

Mechanical connection element and electrical electric contact module PKZM0-XRM12

The reversing starter (complete unit) consists of a PKZM0 motor-protective circuit-breaker and two DILM contactors.

With the adapter-less top-hat rail mounting of starters up to 12 A, only the motor-protective circuit-breaker on the top-hat rail requires an adapter. The contactors are provided with mechanical support via a mechanical connection element.

Control wire guide with max. 6 conductors up to 2.5mm external diameter or 4 conductors up to 3.5mm external diameter.

From 16 A, the motor-protective circuit-breakers and contactors are mounted on the top-hat rail adapter plate.

The connection of the main circuit between PKZ and contactor is established with electrical contact modules.

Complete units with mechanical interlock, starters up to 12 A also feature electrical interlock.

When using the auxiliary contacts DILA-XHIT... (-> 101042) the plug-in electrical connector can be removed without the removal of the front mounting auxiliary contact.

For further information
Technical data PKZM0
Accessories PKZ
Technical data DILM
Further actuating voltages
DILM accessories

# Page → PKZM0 → 072896 → DILM → 276537 → 281199

## Technical data

General			
Standards			UL 508 (on request) CSA C 22.2 No. 14 (on request)
Mounting position			
Altitude		m	Max. 2000
Ambient temperature			-25 - +55
Main conducting paths			
Rated impulse withstand voltage	$U_{imp}$	V AC	6000
Overvoltage category/pollution degree			III/3
Rated operational voltage	U <sub>e</sub>	V	230 - 415
Rated operational current			
Open, 3-pole: 50 – 60 Hz			
380 V 400 V	I <sub>e</sub>	Α	6.3
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 x $\ensuremath{\text{U}_{\text{S}}}$			
Dual-voltage coil 50 Hz	Sealing	W	1.2
Rating data for approved types			
Auxiliary contacts			
Pilot Duty			
AC operated			A600
DC operated			P300
General Use			
AC		V	600
AC		Α	15
DC		V	250
DC		Α	1

### Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	6.3
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	2.2
Equipment heat dissipation, current-dependent	$P_{vid}$	W	6.6
Static heat dissipation, non-current-dependent	$P_{vs}$	W	1.4
Heat dissipation capacity	P <sub>diss</sub>	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	55
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.

10.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product standard's requirements.
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.
10.2.4 Resistance to ultra-violet (UV) radiation	Meets the product standard's requirements.
10.2.5 Lifting	Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact	Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions	Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES	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 Insulation properties	
10.9.2 Power-frequency electric strength	Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
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)

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])

[A02710010])		
Kind of motor starter		Reversing starter
With short-circuit release		Yes
Rated control supply voltage Us at AC 50HZ	V	230 - 230
Rated control supply voltage Us at AC 60HZ	V	0 - 0
Rated control supply voltage Us at DC	V	0 - 0
Voltage type for actuating		AC
Rated operation power at AC-3, 230 V, 3-phase	kW	1.5
Rated operation power at AC-3, 400 V	kW	2.2
Rated power, 460 V, 60 Hz, 3-phase	kW	0
Rated power, 575 V, 60 Hz, 3-phase	kW	0
Rated operation current le	А	5
Rated operation current at AC-3, 400 V	А	6.3
Overload release current setting	А	6.3 - 6.3
Rated conditional short-circuit current, type 1, 480 Y/277 V	А	0
Rated conditional short-circuit current, type 1, 600 Y/347 V	А	0
Rated conditional short-circuit current, type 2, 230 V	А	50
Rated conditional short-circuit current, type 2, 400 V	А	50
Number of auxiliary contacts as normally open contact		0
Number of auxiliary contacts as normally closed contact		0
Ambient temperature, upper operating limit	°C	60
Temperature compensated overload protection		Yes
Release class		CLASS 10 A
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 IE 68947-4-3         Class 2           Number of indicator lights         0           External roset possible         No           With fuse         1920           Degree of protoction (IP)         When Canadama (Incident lights)           Supporting protocol for TCP/IP         No           Supporting protocol for FDFIBUS         No           Supporting protocol for AX         No           Supporting protocol for AXI         No           Supporting protocol for MDBUS         No           Supporting protocol for MDBUS         No           Supporting protocol for MDBUS         No           Supporting protocol for Data-Highway         No           Supporting protocol for Data-Highway         No           Supporting protocol for SUCONET         No           Supporting protocol for SUCONET         No           Supporting protocol for PROFINET CBA         No			
Number of indicator lights         6         10           External reset possible         10         No           With fuse         10         No           Degree of protection (NEMA)         100         PPD           Supporting protector for TCP/IP         No         No           Supporting protect for TCP/IP         No         No           Supporting protect for ASI         No         No           Supporting protect for INTERBUS         No         No           Supporting protect of rASI         No         No           Supporting protect of POBLIST         No         No           Supporting protect of routh         No         No           Supporting protect of re PROFINET IO         No         No           Supporting protect of re PROFINET CBA         No         No           Supporting protect of re PROFINET CBA         No         No           Supporting protect of re Etterrhelville         No         No           Supporting protect of	Suitable for emergency stop		No
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Height mm 180	Supporting protocol for other bus systems		No
	Width	mm	90
Depth mm 95	Height	mm	180
	Depth	mm	95

### Approvals

Product Standards	UL60947-4-1A; CSA-C22.2 No. 14-10; IEC60947-4-1; CE marking
UL File No.	E123500
UL Category Control No.	NKJH
CSA File No.	12528
CSA Class No.	3211-24
North America Certification	UL listed, CSA certified
Specially designed for North America	No

# 67 mm (2.64") 6 mm (0.24")

### **Additional product information (links)**

95 mm (3.74")

MSC-R-...-M7[...12]...

Additional product informat	Additional product information (miks)		
IL03402006Z (AWA1210-2248) Reversing starter to 12 A			
IL03402006Z (AWA1210-2248) Reversing starter to 12 A	https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL03402006Z2018_04.pdf		
Motor starters and "Special Purpose Ratings" for the North American market	http://www.eaton.eu/ecm/groups/public/@pub/@europe/@electrical/documents/content/pct_3258146.pdf		
Busbar Component Adapters for modern Industrial control panels	http://www.moeller.net/binary/ver_techpapers/ver960en.pdf		

90 mm (3.54")