DATASHEET - MSC-R-0,4-M7(230V50HZ)



Reversing starter, 3p, 0.09kW/400V/AC3, 150kA

Part no. MSC-R-0,4-M7(230V50HZ)
Catalog No. 283172

4365051

XTSRP40B007BFNL

Alternate Catalog

No.

EL-Nummer (Norway)



Delivery program Basic function Reversing starters (complete devices) Basic device MSC Notes Also suitable for motors with efficiency class IE3. IE3-ready devices are identified by the logo on their packaging. Connection to SmartWire-DT no **Motor ratings** Motor rating AC-3 380 V 400 V 415 V kW 0.09 Rated operational current AC-3 380 V 400 V 415 V 0.31 Ιe Α Rated short-circuit current 380 - 415 V I_q kΑ 150 **Setting range** Setting range of overload releases Α 0.25 - 0.4 Type of coordination "1" Coordination Type of coordination "2" Contact sequence Actuating voltage 230 V 50 Hz, 240 V 60 Hz

Motor-protective circuit-breakers PKZM0-0,4

Contactor DILM7-01(...)

DOL starter wiring set

Mechanical connection element and electrical electric contact module PKZM0-XRM12

Notes

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.

AC voltage

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

Page

→ PKZM0

→ 072896 → DILM → 276537 → 281199

UL 508 (on request)

Technical data General

Standards

			CSA C 22.2 No. 14 (on request)
Mounting position			
Main conducting paths			
Rated impulse withstand voltage	U _{imp}	V AC	6000
Overvoltage category/pollution degree			111/3
Rated operational voltage	U _e	V	230 - 415
Rated operational current			
Open, 3-pole: 50 – 60 Hz			
380 V 400 V	I _e	Α	0.4
Additional technical data			
Motor protective circuit breaker PKZM0, PKE			→ Chapter 7
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
Additional features			→ Chapter 5
Rating data for approved types			

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	0.4
Heat dissipation per pole, current-dependent	P_{vid}	W	1.9
Equipment heat dissipation, current-dependent	P _{vid}	W	5.7
Static heat dissipation, non-current-dependent	P_{vs}	W	1.4
Heat dissipation capacity	P _{diss}	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])

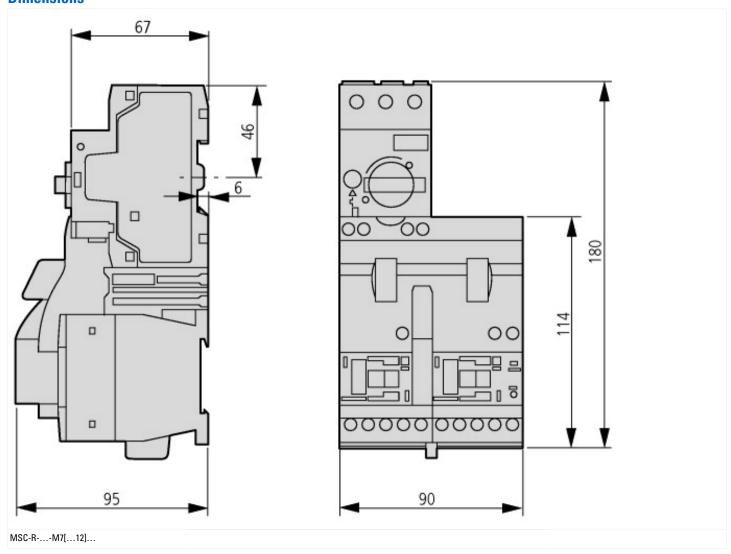
Kind of motor starter		Re	eversing starter
With short-circuit release		Ye	es
Rated control supply voltage Us at AC 50HZ	V	23	30 - 230
Rated control supply voltage Us at AC 60HZ	V	0	- 0
Rated control supply voltage Us at DC	V	0	- 0
Voltage type for actuating		A	С
Rated operation power at AC-3, 230 V, 3-phase	kW	0.	06
Rated operation power at AC-3, 400 V	kW	0.	09
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	0.	31
Rated operation current at AC-3, 400 V	А	0.	4
Overload release current setting	А	0.	25 - 0.4
Rated conditional short-circuit current, type 1, 480 Y/277 V	Α	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	0000
Rated conditional short-circuit current, type 2, 400 V	А	50	0000
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		Ye	es
Release class		CI	LASS 10
Type of electrical connection of main circuit		Si	crew connection
Type of electrical connection for auxiliary- and control current circuit		Si	crew connection
Rail mounting possible		Ye	es
With transformer		N	0
Number of command positions		0	
Suitable for emergency stop		N	0
Coordination class according to IEC 60947-4-3		CI	lass 2
Number of indicator lights		0	
External reset possible		N	0

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	mm	90
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

Dimensions



Assets (links)

Declaration of CE Conformity

00002885

Instruction Leaflets

IL03402006Z2018_04