### DATASHEET - MSC-R-16-M17(24VDC)



Reversing starter, 380 V 400 V 415 V: 7.5 kW, Ir= 10 - 16 A, 24 V DC, DC voltage



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### **Delivery program**

Dontory 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 to SmartWire-DT			no
Motor ratings			
Motor rating			
AC-3			
380 V 400 V 415 V	Р	kW	7.5
Rated operational current			
AC-3			
380 V 400 V 415 V	l <sub>e</sub>	А	15.2
Rated short-circuit current 380 - 415 V	Ιq	kA	50
Setting range			
Setting range of overload releases	I <sub>r</sub>	A	10 - 16
Coordination			Type of coordination "1" Type of coordination "2"
Contact sequence			
Actuating voltage			24 V DC
			DC voltage
Motor-protective circuit-breakers PKZM0-16			
Contactor DILM17-01()			
<b>DOL starter wiring set</b> Mechanical connection element and electrical electric contact module PKZM0-X	RM32		
Notes			
The reversing starter (complete unit) consists of a PKZM0 motor-protective circuit	it-breaker and t	wo DILM o	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

→ PKZM0
→ 072896
→ DILM
→ 276537
→ 281199

# **Technical data**

Standards       Image: Standards       Image: Standards       Standards         Mounting position       Image: Standards	General			
Mounting position         Image: Solution of S	Standards			UL 508 (on request)
Atitude Ambient tamperature estimate and a specific descent for the spe				LSA L 22.2 No. 14 (on request)
Ambient temperature       25 - 455         Main conducting paths       Maine       6000         Rated inpulse withstand voltage       Maine       11/3         Rated operational voltage       Maine       700         Rated operational current       Maine       700         380 V 400 V       Name       6         Additional technical data       Feaso Participational voltage       700         Rated operated       Seeling       Name       7000         Power consumption       Seeling       Name       7000         Power consumption       Seeling       Name       7000         Rated operated       Seeling       Name       7000         Rated operat	Mounting position			
Main conducting paths         Vimp         VAC         6000           Rated impulse withstand voltage         Ump         VAC         6000           Overvoltage category/pollution degree         Ump         VAC         11/3           Rated operational voltage         Ump         Vac         230 - 415           Rated operational current         Vac         230 - 415	Altitude		m	Max. 2000
Rated impulse withist and voltage         Ump         VAC         6000           Overvoltage category/pollution degree         III/3         III/3           Rated operational voltage         Vervoltage category/pollution degree         230 - 155           Rated operational current         Vervoltage category/pollution degree         230 - 155           goen, 3-pole: 50 - 60 Hz         Vervoltage category/pollution degree         380 + 400 V           Additional technical data         Vervoltage category/pollution degree         FXZM0 motor-protective circuit-breakers, see motor-protective circuit-breakers, see contactor product group DILK contactors, see contactor product group DILK cont	Ambient temperature			-25 - +55
Overvoltage category/pollution degree         In/3           Rated operational voltage         Ve         S0         4300         430         430	Main conducting paths			
Rated operational voltage     Ue     Y     20-415       Rated operational current	Rated impulse withstand voltage	U <sub>imp</sub>	V AC	6000
Related operational current         Image: Constraint of the second operation of the second operation operated operation operated operation operated op	Overvoltage category/pollution degree			III/3
Open, 3-pole: 50 – 60 Hz         Image: Construction of the second o	Rated operational voltage	Ue	V	230 - 415
380 V 400 V     Ie     A       Additional technical data       Additional technical data       Additional technical data       Modor protective circuit breaker PKZM0, PKE     Image: Section of Contractors, see contactor product group DILET ining relays product group DILET ining relays. The section of Contractors, see contactor product group DILET ining relays. The section of Contractors, see contactor product group DILET ining relays. The section of Contractors and the section of Contractors and the section of Contractors.       Power consumption       Power consumption       Additional for approved types       Additional for approved types <t< td=""><td>Rated operational current</td><td></td><td></td><td></td></t<>	Rated operational current			
Additional technical data Additional technical data Motor protective circuit breaker PKZM0, PKE Power consumption	Open, 3-pole: 50 – 60 Hz			
Add or protective circuit breaker PKZM0, PKE       FKZM0 motor-protective circuit-breakers, see motor-protecited see motor-protecited see motor-protection see motor-protecti	380 V 400 V	le	Α	16
Power consumption       PKZM0 product group       DillA contactors, see contactor product group       DillA contactors, see contactor product group       DillA contactors, see contactors, electronic timing relays product group         Power consumption       Sealing       V       0.5         Rating data for approved types       Sealing       V       0.5         Rating data for approved types       Sealing       V       0.5         Rating contacts       Sealing       V       Sealing	Additional technical data			
DC operated     Sealing     W     0.5       Rating data for approved types     Sealing     W     0.5       Availiary contacts     File     File       Pilot Duty     File     File     File       AC operated     File     File     File       DC operated     File     File     File       General Use     File     File     File       AC     File     File     File       DC     V     File     File       AC     File     File       AC     File     File       AC     File     File       AC     File     File       DC     V     File       DC     V     File	Motor protective circuit breaker PKZM0, PKE			PKZM0 product group DILM contactors, see contactor product group
Auxiliary contacts       Image: Mathematic state s	Power consumption			
Auxiliary contactsImage: BiologyImage: BiologyPiot DutyPiotA600A C operatedPiotGeneral UsePiotA CNSolA C<	DC operated	Sealing	W	0.5
Pilot Duty     Pilot Duty       AC operated     A600       DC operated     P300       General Use     F       AC     V       AC     AC       AC     AC       AC     V       BC     AC       AC     AC       AC     V       BC     V       BC     V       BC     V       BC     V	Rating data for approved types			
AC operatedA600DC operatedP300General UseCACC	Auxiliary contacts			
DC operated     P300       General Use     F       AC     V       AC     AC       AC     AC       DC     V       BC     V       SC     SC	Pilot Duty			
General Use     V     60       AC     AC     AC       DC     V     50	AC operated			A600
ACV600ACA15DCV250	DC operated			P300
AC A 15 DC V 250	General Use			
DC V 250	AC		V	600
	AC		А	15
	DC		V	250
DC A 1	DC		А	1

# Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	16
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	3.1
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	9.3
Static heat dissipation, non-current-dependent	P <sub>vs</sub>	W	0.9
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])

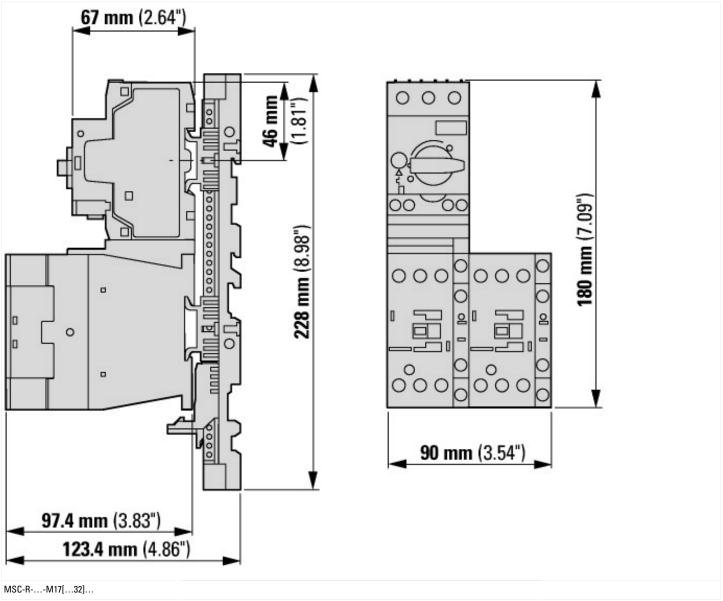
Kind of motor starter		Reversing starter
With short-circuit release		Yes
Rated control supply voltage Us at AC 50HZ	V	0 - 0
Rated control supply voltage Us at AC 60HZ	V	0 - 0
Rated control supply voltage Us at DC	V	24 - 24
Voltage type for actuating		DC
Rated operation power at AC-3, 230 V, 3-phase	kW	4
Rated operation power at AC-3, 400 V	kW	7.5
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	15.2
Rated operation current at AC-3, 400 V	А	16
Overload release current setting	А	10 - 16
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	50000
Rated conditional short-circuit current, type 2, 400 V	А	50000
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
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

Exemainest possibility         Main           With use         No           Degree of protection (NPA)         Main           Supporting protect for TCP/P         Main           Supporting protect for FARDFIBUS         Main <th>Number of indicates links</th> <th></th> <th>0</th>	Number of indicates links		0
With fase       Net       Net         Degree of protection (NEMA)       PO         Supporting protect for CAN       PO         Supporting protect for MODBUS       PO         Supporting protect for SUCONET       PO </td <td>Number of indicator lights</td> <td></td> <td>0</td>	Number of indicator lights		0
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Supporting protocol for Foundation Fieldbus       Immediate       No         Supporting protocol for EtherNet/IP       No       No         Supporting protocol for AS-Interface Safety at Work       Immediate       No         Supporting protocol for DeviceNet Safety       Immediate       No         Supporting protocol for INTERBUS-Safety       Immediate       No         Supporting protocol for PROFIsafe       Immediate       No         Supporting protocol for SafetyBUS p       Immediate       No         Supporting protocol for other bus systems       Immediate       Immediate         Width       Immediate       Immediate       Immediate         Beght       Immediate       Immediate       Immediate	Supporting protocol for PROFINET CBA		No
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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       Height     mm	Supporting protocol for AS-Interface Safety at Work		No
Supporting protocol for PROFIsafeMoSupporting protocol for SafetyBUS pNoSupporting protocol for other bus systemsMoWidthmmHeightmm28	Supporting protocol for DeviceNet Safety		No
Supporting protocol for SafetyBUS p     No       Supporting protocol for other bus systems     Mo       Width     mm       Height     mm	Supporting protocol for INTERBUS-Safety		No
Supporting protocol for other bus systems     Mo       Width     mm     90       Height     mm     228	Supporting protocol for PROFIsafe		No
Widthmm90Heightmm28	Supporting protocol for SafetyBUS p		No
Height mm 228	Supporting protocol for other bus systems		No
	Width	mm	90
Depth mm 123.4	Height	mm	228
	Depth	mm	123.4

## **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





### **Assets (links)**

Declaration of CE Conformity 00003118 Instruction Leaflets IL03402006Z2018\_04

### Additional product information (links)

IL03402006Z (AWA1210-2248) Reversing starter to 12 A		
IL03402006Z (AWA1210-2248) Reversing starter to 12 A	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03402006Z2018_04.pdf	
IL03402011Z (AWA1210-2266) Reversing starter	to 32 A	
IL03402011Z (AWA1210-2266) Reversing starter to 32 A	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03402011Z2018_06.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	