

DOL starter, 0.3-1.2A, protection electronic, standard

Part no. Article no. Catalog No. MSC-DE-1,2-M17(230V50HZ) 168800 XTSE1P2B017CFNL



Delivery program

Notes Aco subble for notices with efficiency data ES: Estimated with logic on their pockaging. Mater rating Aco subble for notices with efficiency data ES: Estimated with logic on their pockaging. Aco subble for notices with efficiency data ES: Estimated with logic on their pockaging. Aco subble for notices with efficiency data ES: Estimated with logic on their pockaging. Aco subble for notices with efficiency data ES: Estimated with logic on their pockaging. Aco subble for notices with efficiency data ES: Estimated with logic on their pockaging. Aco subble for notices with efficiency data ES: Estimated with logic on their pockaging. Aco subble for notices with efficiency data ES: Estimated with logic on their pockaging. Aco subble for notices with efficiency data ES: Estimated with logic on their pockaging. Aco subble for notices with efficiency data ES: Estimated with logic on their pockaging. Aco subble for notices with efficiency data ES: Estimated with logic on their pockaging. Aco subble for notices with efficiency data ES: Estimated with logic on their pockaging. Aco subble for notices with efficiency data ES: Estimated with logic on their pockaging. Aco subble for notices with efficiency data ES: Estimated with logic on their pockaging. Aco subble for notices with efficiency data ES: Estimated with logic on their pockaging. Aco subble for notices with efficiency data ES: Estimated with logic on their pockaging. Relat conditional short-iccccut ent SOO with efficiency data ES: Estimated with logic on their pockaging. Aco subble for notices with efficiency data ES: Estimated with logic on their pockaging. </th <th>Basic function</th> <th></th> <th></th> <th>DOL starters (complete devices)</th>	Basic function			DOL starters (complete devices)
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Motor rating Image: Section of the sector of the secto				IE3 🗸
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AC-3 Image: Picture in Sign V 400 V 415 V P KW 0.37 Bodd Opd V 415 V P KW 0.37 Bodd Opd V 415 V P KW 0.37 Bodd Opd V 415 V No AC 3 1.1 400 V In AC 1 0.9 Sob V 300 V In AC 3 0.9 Bodd Opd Vat5 V In AC 3 1.1 Sob V In AC 3 0.9 Bodd Opd Vat5 Circuit current 300 V In AC 3 10 Bodd Opd Vat5 V Im AC 3 10 Sotticicuit releases Im AC 3 10 Sotticicuit releases Im AC 3 10 Conditation Im AC 3 185 Conditation Im Type of coordination 11* Type of coordination 12* Condition should be picture in the pic	Motor ratings			
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AC-3 Image: Story Constraints Image: Story Constralers Image: Story Constraints		Р	kW	0.37
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Stort-circuit releases Image: Stort-circuit releases Image: Stort-circuit releases Non-delayed Image: Stort-circuit releases Image: Stort-circuit releases Condination Image: Stort-circuit releases Image: Stort-circuit release	Rated short-circuit current 380 - 400 V	Iq	kA	100
Short-circuit releases Non-delayed Image: Condension Condension Condension Image: Condension <td>Rated conditional short-circuit current 500 V</td> <td>Iq</td> <td>kA</td> <td>10</td>	Rated conditional short-circuit current 500 V	Iq	kA	10
Non-delayed Image: Condition of the sequence Contact sequence Image: Contact sequen	Setting range			
Image: bit is a second seco				
Contact sequence	Non-delayed	I _{rm}	A	186
	Coordination			Type of coordination "1" Type of coordination "2"
Actuating voltage 230 V 50 Hz	Contact sequence			
	Actuating voltage			230 V 50 Hz

	AC voltage
Motor-protective circuit-breakers PKE12/XTU-1,2	
Contactor DILM17-10()	
DOL starter wiring set Mechanical connection element and electrical electric contact module PKZM0-XD	DM32
Notes	

The DOL starter (complete devices) consists of a PKE motor-protective circuit-breaker and a DILM contactor.

With the adapter-less top-hat rail mounting of starters up to 15 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 2.5°mm external diameter or 4 conductors up to 3.5°mm external diameter.

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

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

When using DILA-XHIT... auxiliary contacts with MSC-DE-... DOL starters, the plug-in electrical connectors can be removed without removing the front-mounted auxiliary contact.

Cannot be combined with NHI-E...PKZ0-C.

MSC-DEA... DOL starters are prepared for communications via SmartWire-DT. In order to be used this way, they first need to be expanded with the PKE-SWD-32 communications module.

Motor output/rated Motor rating	motor current Rated motor current						
AC-3	220 V	380 V	415 V	440 V	500 V	500 V	660 V
	230 V	400 V				with	690 V
Ρ	240 V I _q = 100 kA	l _q =100 kA	I _q = 65 kA	l _q = 65 kA	l _q = 10 kA	CL-PKZ0 I _q = 100 kA	I _q = 3 kA
kW	A	A	A	A	A	A	A
0.06	0.37	-	-	-	-	-	-
0.09	0.54	0.31	0.31	-	-	-	-
0.12	0.72	0.41	0.41	0.37	0.33	0.33	-
0.18	1.04	0.6	0.6	0.54	0.48	0.48	0.35
0.25	-	0.8	0.8	0.76	0.7	0.7	0.5
0.37	-	1.1	1.1	1.02	0.9	0.9	0.7
0.55	-	-	-	-	-	-	0.9
0.75	-	-	-	-	-	-	1.1

Technical data			
General			
Standards			IEC/EN 60947-4-1, VDE 0660
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	۱ _e	А	1.2
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 contactors 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 $\rm U_{c}$			
Dual-voltage coil 50 Hz	Sealing	W	2.1
Design verification as per IEC/EN 61439			
Technical data for design verification			
Rated operational current for specified heat dissipation	۱ _n	А	1.2
Heat dissipation per pole, current-dependent	P _{vid}	W	0.4
Equipment heat dissipation, current-dependent	P _{vid}	W	1.2
Static heat dissipation, non-current-dependent	P _{vs}	W	2.1
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-25

Operating ambient temperature max.

°C

55

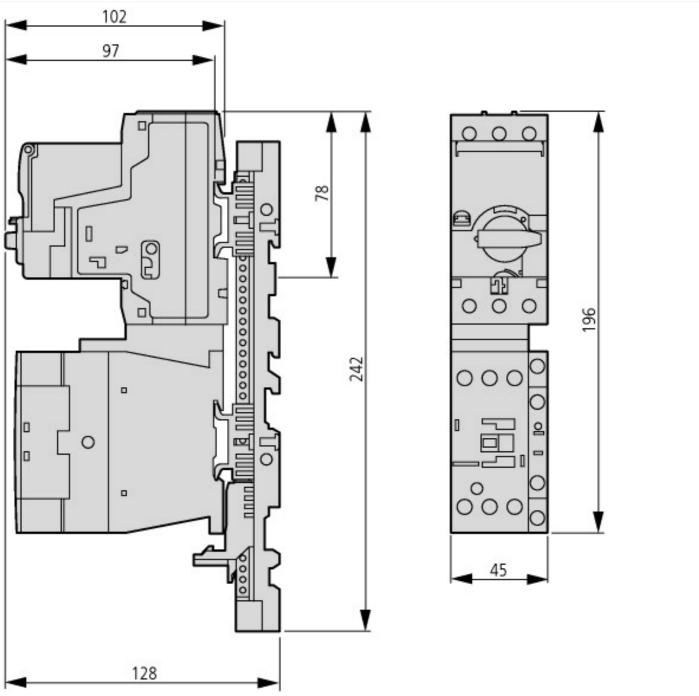
EN 61439 design verification	
0.2 Strength of materials and parts	
10.2.2 Corrosion resistance	Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to 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.
0.3 Degree of protection of ASSEMBLIES	Does not apply, since the entire switchgear needs to be evaluated.
0.4 Clearances and creepage distances	Meets the product standard's requirements.
0.5 Protection against electric shock	Does not apply, since the entire switchgear needs to be evaluated.
0.6 Incorporation of switching devices and components	Does not apply, since the entire switchgear needs to be evaluated.
0.7 Internal electrical circuits and connections	Is the panel builder's responsibility.
0.8 Connections for external conductors	Is the panel builder's responsibility.
0.9 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.
0.10 Temperature rise	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
0.11 Short-circuit rating	Is the panel builder's responsibility. The specifications for the switchgear must observed.
0.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must observed.
0.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 6.0

Low-voltage industrial components (EG000017) / Motor starter/Motor starter comb	ination (EC001037)	
Electric engineering, automation, process control engineering / Low-voltage switc [AJZ718010])	h technology / Load b	reakout, motor breakout / Motor starter combination (ecl@ss8.1-27-37-09-05
Kind of motor starter		Direct 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	0.18
Rated operation power at AC-3, 400 V	kW	1.1
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	1.2
Rated operation current at AC-3, 400 V	А	1.2
Overload release current setting	А	0.3 - 1.2
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	100000
Rated conditional short-circuit current, type 2, 400 V	А	100000
Number of auxiliary contacts as normally open contact		1
Number of auxiliary contacts as normally closed contact		0
Ambient temperature, , upper operating limit	°C	60
Temperature compensated overload protection		Yes
Release class		Adjustable
Type of electrical connection of main circuit		Screw connection
Type of electrical connection for auxiliary- and control current circuit		Screw connection

Bagee of protection (IP) P00 Supporting protocol for CP/IP No Supporting protocol for PROFIBUS No Supporting protocol for CAN No Supporting protocol for NDEBUS No Supporting protocol for ASI No Supporting protocol for Data-Highway No Supporting protocol for Data-Highway No Supporting protocol for DDEUS No Supporting protocol for PDEUS No Supporting protocol for AS-Interface Safety at Work No Supporting prot		
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	Supporting protocol for PROFIsafe	No
Supporting protocol for other bus systems No	Supporting protocol for SafetyBUS p	No
	Supporting protocol for other bus systems	No





Additional product information (links)

IL03402010Z (AWA1210-2265) DOL starter up to 32 A

IL03402010Z (AWA1210-2265) DOL starter up to 32 A	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03402010Z2012_09.pdf
Moeller_Online Selections Aids	http://www.moeller.net/en/support/slider/index.jsp