DATASHEET - MSC-D-10-M17(24VDC)



DOL starter, 380 V 400 V 415 V: 3, 4 kW, Ir= 6.3 - 10 A, 24 V DC, DC



Part no. MSC-D-10-M17(24VDC) 101047

Catalog No.

Alternate Catalog

XTSC010B018CTDNL No.

	EL-Nummer (Norway)	4315112			
Delivery program					
Basic function					DOL 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	3 4
Rated operational current					
AC-3					
380 V 400 V 415 V			l _e	А	6.6 8.5
Rated short-circuit current 38	80 - 415 V		I_q	kA	50
Setting range					
Setting range of overload rele	eases		I _r	A	6.3 - 10
Coordination					Type of coordination "1" Type of coordination "2"
Contact sequence					M 3~
Actuating voltage					24 V DC DC

Motor-protective circuit-breakers PKZM0-10

Contactor DILM17-10(...)

DOL starter wiring set

Mechanical connection element and electrical electric contact module PKZM0-XDM32

Notes

The DOL starter (complete device) consists of a PKZM0 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 PKZ and contactor is established with electrical contact modules.

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.

Technical data General

Standards	IEC/EN 60947-4-1, VDE 0660
Mounting position	
Main conducting paths	

Rated impulse withstand voltage	U_{imp}	V AC	6000
Overvoltage category/pollution degree			III/3
Rated operational voltage	U _e	V	230 - 415
Rated operational current			
Open, 3-pole: 50 – 60 Hz			
380 V 400 V	l _e	Α	10

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		
Current heat loss		
Current heat loss at $I_{\rm e}$ to AC-3/400 V	W	7.8

Power consumption

DC operated	Sealing	W	0.86

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	10
Heat dissipation per pole, current-dependent	P_{vid}	W	2.6
Equipment heat dissipation, current-dependent	P_{vid}	W	7.8
Static heat dissipation, non-current-dependent	P_{vs}	W	0.9
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)

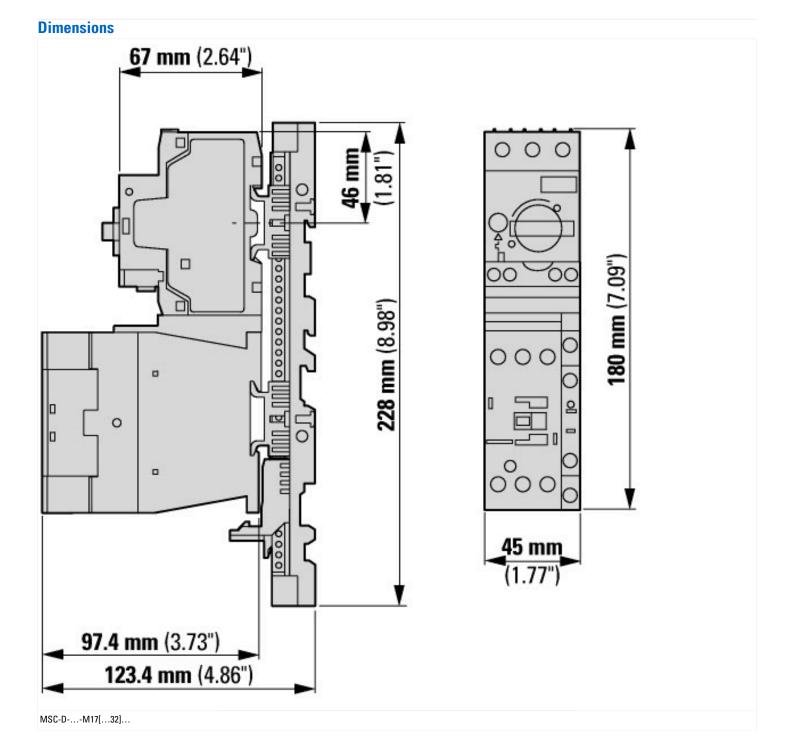
Electric engineering, automation, process control engineering / Low-voltage switch technology / Load breakout, motor breakout / Motor starter combination (ecl@ss10.0.1-27-37-09-05 [AJZ718013])

[A32710010])		
Kind of motor starter		Direct 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	2.2
Rated operation power at AC-3, 400 V	kW	4
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	8.5
Rated operation current at AC-3, 400 V	А	10
Overload release current setting	А	6.3 - 10
Rated conditional short-circuit current, type 1, 480 Y/277 V	Α	0
Rated conditional short-circuit current, type 1, 600 Y/347 V	Α	0
Rated conditional short-circuit current, type 2, 230 V	А	50000
Rated conditional short-circuit current, type 2, 400 V	Α	50000
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		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

Coordination class according to IEC 60947-4-3 Class 2 Number of indicator lights 0 External roset possible No With fuse No Degree of protection (IP) IP00 Degree of protection (NEMA) Other Supporting protocol for TCP/IP No Supporting protocol for PROFIBUS No Supporting protocol for CAN 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 LON No Supporting protocol for PROFINET DB No Supporting protocol for SEROS No Supporting protocol for PROFINET CBA No Supporting protocol for EtherNeVIP No Supporting protocol for EtherNeVIP No Supporting protocol for EtherNeVIP No Supporting protocol for DeviceNet Safety No <t< th=""><th></th><th></th><th></th></t<>			
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Height mm 228	Supporting protocol for other bus systems		No
	Width	mm	45
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	Depth	mm	123.4

Approvals

Product Standards	IEC/EN 60947-4-1; UL 60947-4-1; CSA - C22.2 No. 60947-4-1-14; CE marking
UL File No.	E36332
UL Category Control No.	NLRV
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

IL03402010Z2018_05

Additional product information (links)

IL03402010Z (AWA1210-2265) Direct-on-line starter up to 32 A				
IL03402010Z (AWA1210-2265) Direct-on-line starter up to 32 A	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03402010Z2018_05.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			
Moeller_Online Selections Aids	http://www.moeller.net/en/support/slider/index.jsp			