DATASHEET - MSC-DEA-32-M17(24VDC)



DOL starter, 380 V 400 V 415 V: 7.5 kW, 100 kA, Ir: 8 - 32 A, Connection to SmartWire-DT: yes, 24 V DC, DC Voltage

Powering Business Worldwide

6

Part no. MSC-DEA-32-M17(24VDC)

4137409

Catalog No. 121759

Alternate Catalog XTSEA032B018CTDNL

No.

EL-Nummer

(Norway)

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			yes in conjunction with PKE-SWD-32 SmartWire DT PKE module
Motor ratings			
Motor rating			
AC-3			
380 V 400 V 415 V	P	kW	7.5
500 V	P	kW	7.5
Rated operational current			
AC-3			
380 V 400 V 415 V	I _e	Α	15.2
500 V	I _e	Α	12.1
Rated short-circuit current 380 - 415 V	I_q	kA	100
Rated conditional short-circuit current 500 V	Iq	kA	50
Setting range			
Setting range of overload releases	I _r	А	8 - 32
Coordination			Type of coordination "1" Type of coordination "2"
Contact sequence			M 3~
Actuating voltage			24 V DC

Motor-protective circuit-breakers PKE32/XTUA-32

Contactor DILM17-01(...)

DOL starter wiring set

Mechanical connection element and electrical electric contact module PKZM0-XDM32

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.

 $Control\ wire\ guide\ with\ max.\ 6\ conductors\ up\ to\ 2.5^omm\ external\ diameter\ or\ 4\ conductors\ up\ to\ 3.5^omm\ external\ diameter.$

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 current Motor Rated motor output current AC-3 220 V 380 V 415 V 440 V 500 V 500 V 660 V 230 V 400 V with 690 V 240 V CL-PKZ0 I_q = 100 kA I_q =100 kA $I_q = 65 \text{ kA}$ $I_q = 65 \text{ kA}$ $I_q = 50 \text{ kA}$ $I_q = 3 \text{ kA}$ $I_q = 100 \text{ kA}$ Р kW Α Α Α Α Α Α Α 2.2 8.7 3 11.5 4 14.8 8.5 8.5 10.2 5.5 9 9 11.3 11.3 8.8 15.2 15.2 13.8 12.1 12.1

Technical data

General				
Standards			IEC/EN 60947-4-1, VDE 0660	
Mounting position				
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 _e	V	230 - 415	
Rated operational current				
Open, 3-pole: 50 – 60 Hz				
380 V 400 V	I _e	Α	17	
AC-4 cycle operation				
Minimum current flow times		ms	500 (Class 5) 700 (Class 10) 900 (Class 15) 1000 (Class 20)	
Minimum cut-out periods		ms	500	
Note		ms	In AC-4 cycle operation, going below the minimum current flow time can cause overheating of the load (motor). For all combinations with an SWD activation, you need not adhere to the minimum current flow times and minimum cut-out periods.	
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 _e to AC-3/400 V		W	8.22		
Power consumption					
DC operated	Sealing	W	0.86		

Design verification as per IEC/EN 61439

Design vernication as per IEG/EN 01439			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	17
Heat dissipation per pole, current-dependent	P _{vid}	W	2.7
Equipment heat dissipation, current-dependent	P _{vid}	W	8.2
Static heat dissipation, non-current-dependent	P _{vs}	W	0.86
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

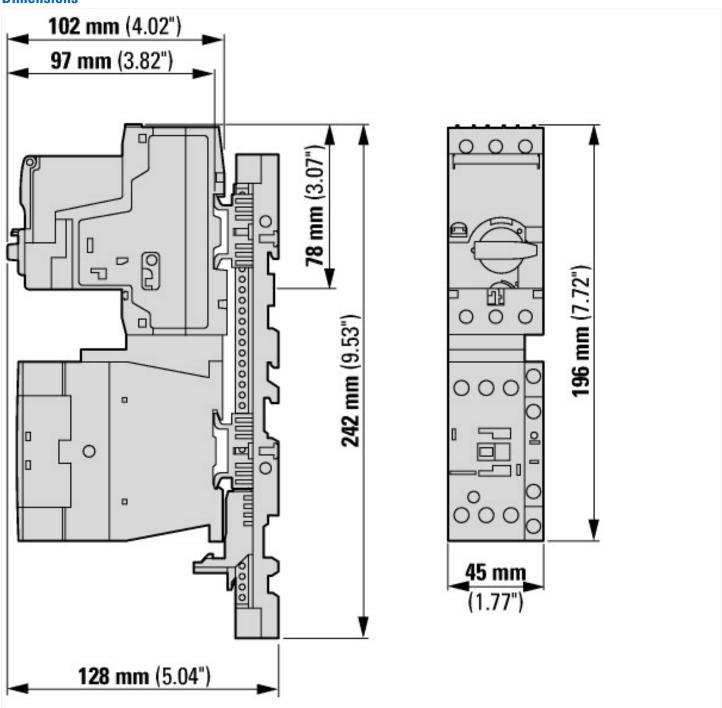
Low-voltage industrial components (EG000017) / Motor starter/Motor starter combination (EC001037)

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])

[AJZ/18013])		
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	4
Rated operation power at AC-3, 400 V	kW	7.5

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Reside conditional short-circuit current, type 2, 230 V			
Retail conditional afters circuit current, type 2, 400 V 0 0 0 0 0 0 0 0 0	· · · ·		
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Dimensions



Assets (links)

Declaration of CE Conformity 00003119

Instruction Leaflets

IL03402010Z2018_05

Additional product information (links)

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

 $IL03402010Z\ (AWA1210-2265)\ DOL\ starter\ up\ to \\ ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03402010Z2018_05.pdf$

32 A

Moeller_Online Selections Aids http://www.moeller.net/en/support/slider/index.jsp