DATASHEET - MSC-D-12-M12(24VDC)



DOL starter, 3p, 5.5kW/400V/AC3, 50kA

MSC-D-12-M12(24VDC) 283167 XTSC012B012BTDNL



Catalog No. Alternate Catalog No. EL-Nummer (Norway)

Part no.

4365046

Delivery program

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380 V 40 V 41 S V In 1.3 Rata shart-circuit current 380 - 41 S V In 5 Setting range Image: Ima	Rated operational current			
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Contact sequence I and the seque	「 中			
Actuating voltage Actuating voltage Actuating voltage Actuating voltage Botarter viring set BOL starter viring set	Coordination			Type of coordination "1"
Motor-protective circuit-breakers PKZM0-12 Contactor DILM12-10() DDL starter wiring set	Contact sequence			
Motor-protective circuit-breakers PKZM0-12 Contactor DILM12-10() DDL starter wiring set	Actuating voltage			
Contactor DILM12-10() DDL starter wiring set	Motor-protective circuit-breakers PKZM0-12			DC
DOL starter wiring set	Contactor DILM12-10()			
	DOL starter wiring set	(DM12		

08/14/2019

Notes

BK25/3-PKZ0-E extension terminal and if necessary B3.../..-PKZ0 three-phase commoning link can be added to motor-starter combinations to make Type F starters in accordance with UL508.

Notes

The DOL starters (complete units) consist 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.

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			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	12
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 $\rm I_e$ to AC-3/400 V		W	9.9
Power consumption			
DC operated	Sealing	W	2.6
Rating data for approved types			
Auxiliary contacts			
Pilot Duty			
AC operated			A600
DC operated			P300
General Use			
AC		V	600
AC		А	15
DC		V	250
DC		А	1

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	12
Heat dissipation per pole, current-dependent	P _{vid}	W	3.3
Equipment heat dissipation, current-dependent	P _{vid}	W	9.9
Static heat dissipation, non-current-dependent	P _{vs}	W	2.6
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.

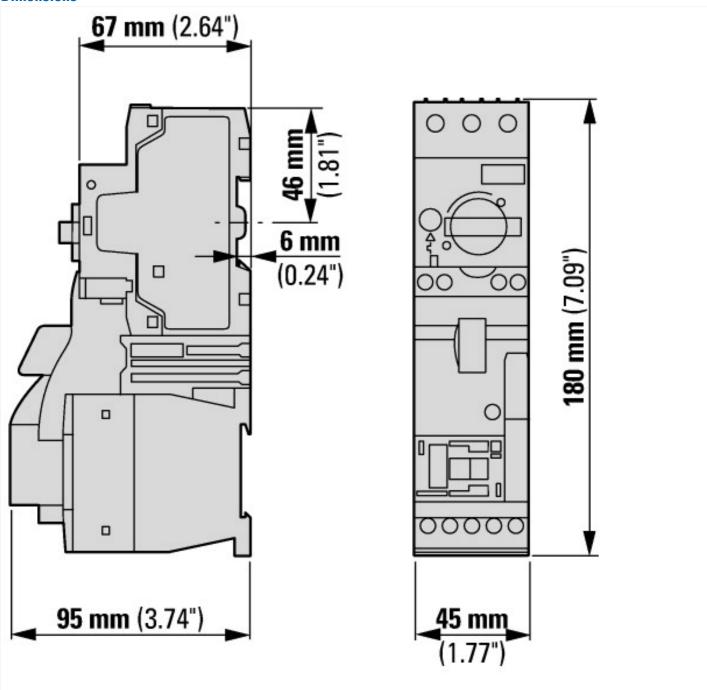
Technical data ETIM 7.0

Low-voltage industrial components (EG000017) / Motor starter/Motor starter combination (EC001037)		
		kaut mater breakaut / Mater starter combination / acl@ac10.0.1.27.27.00.05
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])		
		Direct starter
		Yes
١	V	0 - 0
١	V	0 - 0
١	V	24 - 24
		DC
		DC
ł	kW	3
ł	kW	5.5
ł	kW	0
ł	kW	0
/	A	11.3
1	A	12
/	A	8 - 12
1	A	0
1	A	0
/	A	0
/	A	0
		1
		0
c	°C	60
		Yes
		CLASS 10
		Screw connection
	n technology / La	

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 1
Number of indicator lights		0
External reset possible		No
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	45
Height	mm	180
Depth	mm	95

Approvals

IEC/EN 60947-4-1; UL 60947-4-1; CSA - C22.2 No. 60947-4-1-14; CE marking
E36332
NLRV
12528
3211-24
UL listed, CSA certified
No



MSC-D-...-M7[...15]...

Assets (links)

Declaration of CE Conformity 00002885

Instruction Leaflets IL034038ZU2018_06