

DOL starter, 3p, 5.5kW/400V/AC3, 100kA, protection electronic

Powering Business Worldwide*

Part no. MSC-DE-12-M12(230V50HZ)
Article no. 121743
Catalog No. XTSE012B012BFNL

Delivery programme

Delivery programme			
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.
Motor ratings			
Motor rating			
AC-3			
380 V 400 V 415 V	Р	kW	5.5
Rated operational current			
AC-3			
400 V	l _e	Α	11.3
Rated short-circuit current 380 - 400 V	Iq	kA	100
Setting range			
Setting range of overload releases	I _r	Α	3 - 12
Short-circuit releases			
Non-delayed	I _{rm}	Α	168
Coordination			Type of coordination "1"
Contact sequence			M 3~
Actuating voltage			230 V 50 Hz

AC voltage

Motor-protective circuit-breakers PKE12/XTU-12

Contactor DILM12-10(...)

DOL starter wiring set

Mechanical connection element and electrical electric contact module PKZM0-XDM12

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.

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

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 rating	Rated motor current		
	AC-3		
	220 V	380 V	415 V
	230 V	400 V	
	240 V		
	$I_q = 100 \text{ kA}$	$I_q = 100 \text{ kA}$	$I_q = 50 \text{ kA}$
P	I	1	I
kW	A	A	A
0.75	3.2	-	-
1.1	4.6	-	-
1.5	6.3	3.6	3.6
2.2	8.7	5	5
3	11.5	6.6	6.6
4	-	8.5	8.5
5.5	•	11.3	11.3

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			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	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 contactors product group DILET timing relay, ETR, see contactors, electronic timing relays product group
DILM contactors			

Data for design verification according to IEC/EN 61439

Power consumption of the coil in a cold state and 1.0 x $\rm U_{\rm C}$

Dual-voltage coil 50 Hz

Technical data for design verification			
Heat dissipation capacity	P _{diss}	W	0
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.

1.2

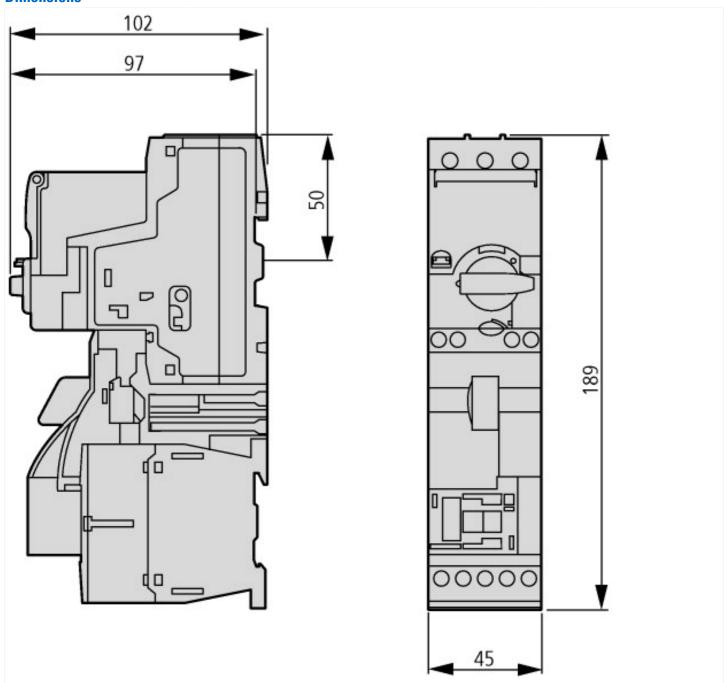
Sealing

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 5.0

recimical data Errivi 3.0			
Low-voltage industrial components (EG000017) / Motor starter combination (ECC	001037)		
Electric engineering, automation, process control engineering / Low-voltage sw	ritch technology /	Load brea	akout, motor breakout / Motor starter combination (ecl@ss8-27-37-09-05 [AJZ718009])
Function			Direct starter
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, 400 V		kW	5.5
Rated operation current le		Α	11.3
Conditioned rated short-circuit current Iq		kA	100
Setting range overload protector		Α	3 - 12
With short-circuit release			Yes
Type of coordination			2
Connection type main current circuit			Screw connection
Degree of protection (IP)			IP20
Suited for bus connection			Yes

Dimensions



Additional product information (links)

IL034014ZU (IL03402005Z) Direct-on-line starter up to 15 A

 $IL034014ZU \ (IL03402005Z) \ Direct-on-line \ starter \ ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL034014ZU2013_11.pdf$

up to 15 A

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