



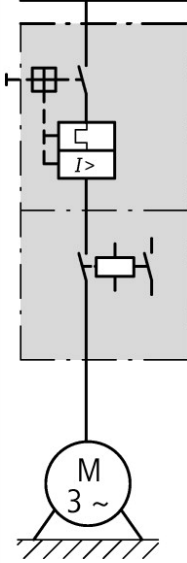


DOL starter, 3p, 0.06-0.37kW/400V/AC3, 100kA, protection electronic

Part no. MSC-DE-1,2-M7(230V50HZ)
Article no. 121735
Catalog No. XTSE1P2B007BFNL

Delivery programme

Basic function				DOL starters (complete devices)
Basic device				MSC
				
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	P	kW		0.37
Rated operational current				
AC-3				
400 V	I_e	A		1.1
Rated short-circuit current 380 - 400 V	I_q	kA		100
Setting range				
Setting range of overload releases	I_r	A		0.3 - 1.2
				
Short-circuit releases				
				
Non-delayed	I_{rm}	A		168
				
Coordination				Type of coordination "1"
Contact sequence				
Actuating voltage				230 V 50 Hz

			AC voltage
Motor-protective circuit-breakers PKE12/XTU-1,2			
Contactor DILM7-10(...)			
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°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 current	Rated motor current		
Motor rating	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	I	I
kW	A	A	A
0.06	0.37	-	-
0.09	0.54	0.31	0.31
0.12	0.72	0.41	0.41
0.18	1.04	0.6	0.6
0.25	-	0.8	0.8
0.37	-	1.1	1.1

Technical data

General

Standards		IEC/EN 60947-4-1, VDE 0660
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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	A	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 $1.0 \times U_c$			
Dual-voltage coil 50 Hz	Sealing	W	1.2

Data for design verification according to IEC/EN 61439

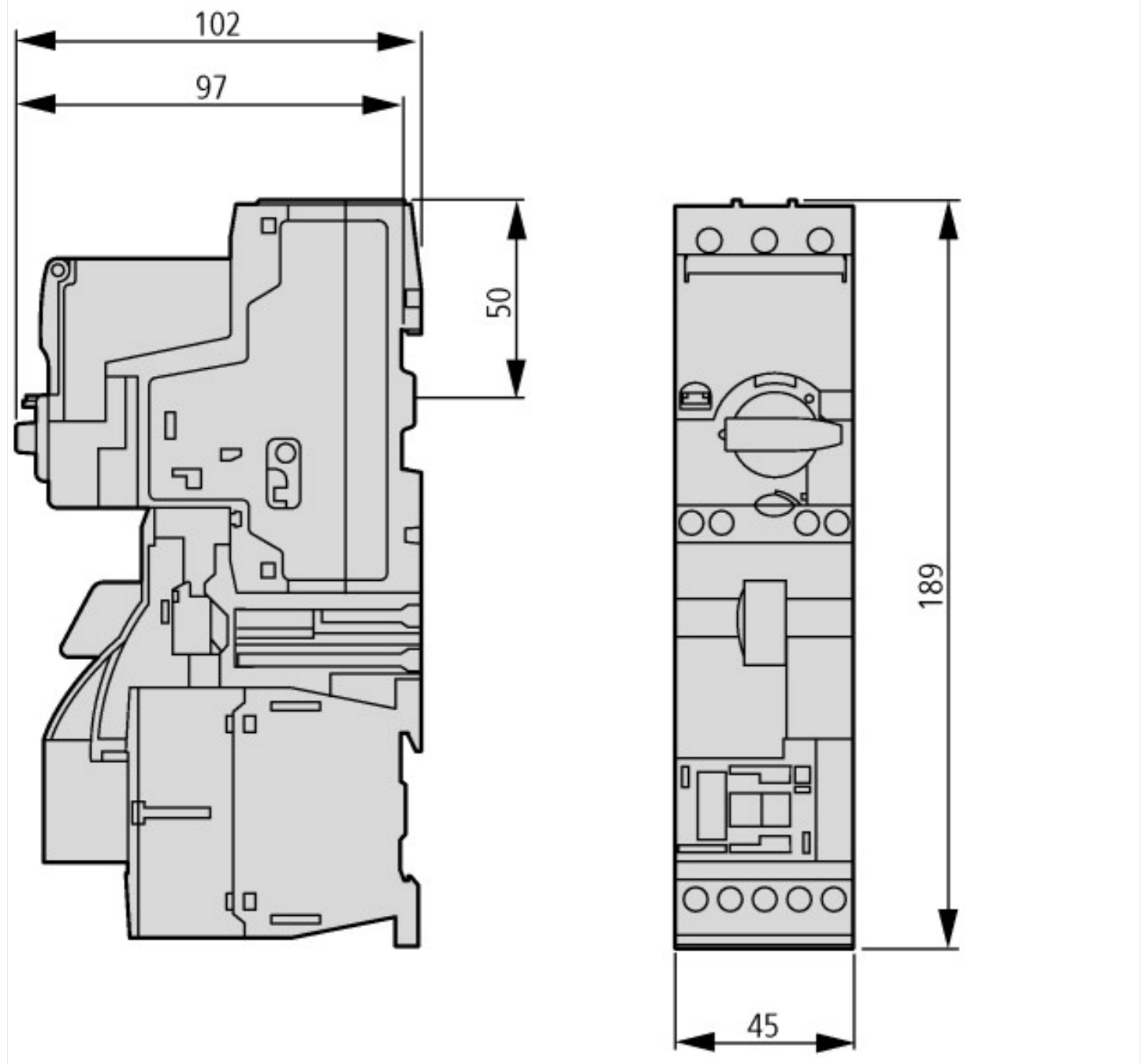
Technical data for design verification			
Heat dissipation capacity	P_{diss}	W	0
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures			Meets the product 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.
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

Low-voltage industrial components (EG000017) / Motor starter combination (EC001037)		
Electric engineering, automation, process control engineering / Low-voltage switch technology / Load breakout, motor breakout / Motor starter combination (ecl@ss8-27-37-09-05 [AJZ718009])		
Function		Direct starter
Rated control supply voltage U_s at AC 50HZ	V	230 - 230
Rated control supply voltage U_s at AC 60HZ	V	0 - 0
Rated control supply voltage U_s at DC	V	0 - 0
Voltage type for actuating		AC
Rated operation power at AC-3, 400 V	kW	0.37
Rated operation current I_e	A	1.1
Conditioned rated short-circuit current I_q	kA	100
Setting range overload protector	A	0.3 - 1.2
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 up to 15 A ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL034014ZU2013_11.pdf

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