DOL starter, 1-4A, protection electronic, standard



Part no. Article no. Catalog No.

MSC-DE-4-M17-SP(230V50HZ,240V60HZ) 167811 XTFCE004BCCSF



Delivery program

Basic function Basic device Connection to SmartWire-DT Components for Maximum motor rating AC HP = PS 200 V 208 V 230 V 240 V 460 V 480 V Short Circuit Current Rating 240 V 480 Y 277 V Setting range of overload releases Stort-circuit releases Short-circuit releases Contact sequence Contact sequence		
Connection to SmartWire-DTImage: connection to SmartWire-DTComponents forImage: connection to SmartWire-DTMaximum motor ratingImage: connection to Smart Circuit Curcent Rating240 VImage: connection to Smart Circuit Current Rating240 VImage: connection to Smart Circuit Curcent RatingShort Circuit Current RatingImage: connection to Smart Circuit Curcent RatingShort Circuit Current RatingImage: connection to Smart Circuit Current RatingSetting range of overload releasesImage: connection to Smart Circuit releasesSobort-circuit releasesImage: connection to Smart Circuit releasesNon-delayedImage: connection to Smart Circuit releasesNon-delayedImage: connection to Smart Circuit releasesImage: connection to Smart Circuit releasesImage: connection to Circuit		Type E DOL starters (complete devices)
Components forImage: components forMaximum motor ratingImage: components forAC HP = PSImage: components for200 V 208 VImage: components for200 V 208 VImage: components for200 V 240 VImage: components for460 V 480 VImage: components for240 VImage: components for480 YImage: components for240 VImage: components forSetting rangeImage: components forSetting range of overload releasesImage: components forShort-circuit releasesImage: components forNon-delayedImage: components forNon-delayedImage: components forImage: component for the formation f		MSC
Maximum motor ratingImage: state of the state		No
AC HP = PSImage: constraint of the second secon		North America
200 V 208 VImage: Constraint of the second seco		
230 V 240 VImage: Constraint of the section of the secti		
460 V 480 VImage: Constraint of the second seco	HP	0.75
Short Circuit Current Rating Image: Constraint of the set of the	HP	0.75
240 V 480 Y 277 V Setting range Setting range of overload releases Image of overload releases	HP	2
480 Y 277 V Setting range Setting range of overload releases Image: Short-circuit releases Image: Short-circuit releases Image: Non-delayed Image: Short-circuit releases		
277 V Setting range Setting range of overload releases Ir Short-circuit releases Non-delayed Ir	kA	18
Setting range of overload releases Ir Short-circuit releases Image: Short-circuit releases Non-delayed Image: Short-circuit releases	kA	18
Image: Non-delayed Image: Im		
Non-delayed Irm	A	1 - 4
Contact sequence	A	186
Actuating voltage		230 V 50 Hz 240 V 60 Hz

	AC voltage
Motor-protective circuit-breakers PKE12/XTU-4	
Contactor DILM17-10()	
DOL starter wiring set Mechanical connection element and electrical electric contact module PKZM0-XD	M32
Extension terminal BK25/3-PKZ0-E	
Notes	
The DOL starter type E (complete devices) consists of a PKE motor-protective circu	it-breaker with AK-PKZ0, a DILM contactor and an extension terminal BK25/3-PKZ0-E.
Motor-protective circuit-breaker and contactor mounted on top hat rail adapter pla	te.

The connection of the main circuit between PKE and contactor is established with electrical contact modules.

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			111/3
Rated operational voltage	U _e	V	208 - 600
Rated operational current			
Open, 3-pole: 50 – 60 Hz			
380 V 400 V	le	Α	4
Additional technical data			
Motor protective circuit breaker PKZM0, PKE			PKE motor-protective circuit-breaker, see motor-protective circuit-breaker product group DILM contactors, see contactors product group
DILM contactors			
Power consumption of the coil in a cold state and 1.0 x $\rm U_{c}$			
Dual-voltage coil 50 Hz	Sealing	W	2.1

Design verification as per IEC/EN 61439

Design verification as per IEC/EN 61439			
Technical data for design verification			
Rated operational current for specified heat dissipation	I _n	А	4
Heat dissipation per pole, current-dependent	P _{vid}	W	0.5
Equipment heat dissipation, current-dependent	P _{vid}	W	1.5
Static heat dissipation, non-current-dependent	P _{vs}	W	2.1
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 6.0

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

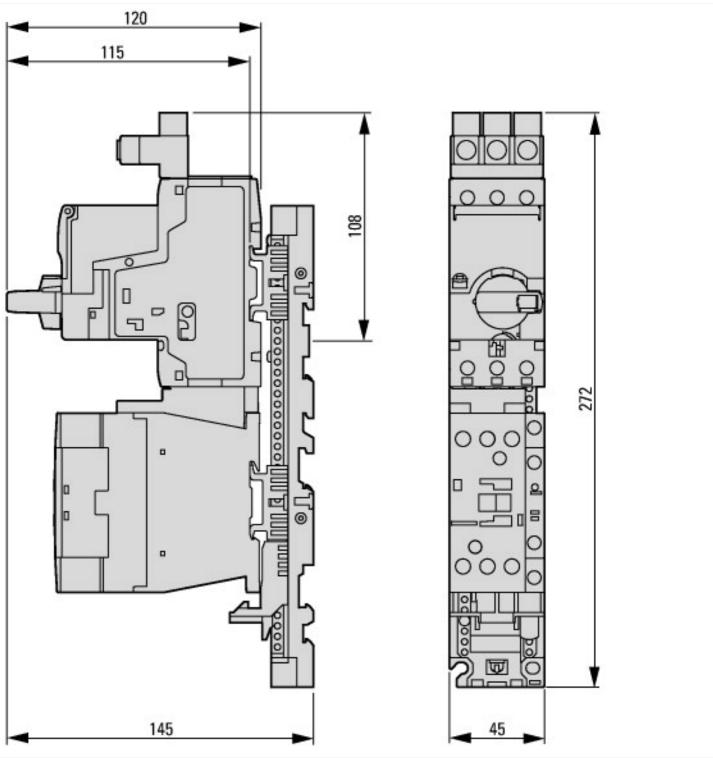
Electric engineering, automation, process control engineering / Low-voltage switch technology / Lo [AJZ718010])	Electric engineering, automation, process control engineering / Low-voltage switch technology / Load breakout, motor breakout / Motor starter combination (ecl@ss8.1-27-37-09-05 [AJZ718010])		
Kind of motor starter		Direct starter	
With short-circuit release		Yes	
Rated control supply voltage Us at AC 50HZ	V	230 - 230	
Rated control supply voltage Us at AC 60HZ	V	240 - 240	
Rated control supply voltage Us at DC	V	0 - 0	
Voltage type for actuating		AC	
Rated operation power at AC-3, 230 V, 3-phase	kW	0.75	
Rated operation power at AC-3, 400 V	kW	7.5	
Rated power, 460 V, 60 Hz, 3-phase	kW	1.47	
Rated power, 575 V, 60 Hz, 3-phase	kW	0	
Rated operation current le	A	16.7	
Rated operation current at AC-3, 400 V	A	4	
Overload release current setting	A	1 - 4	
Rated conditional short-circuit current, type 1, 480 Y/277 V	A	0	
Rated conditional short-circuit current, type 1, 600 Y/347 V	A	0	
Rated conditional short-circuit current, type 2, 230 V	A	0	
Rated conditional short-circuit current, type 2, 400 V	A	0	
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		Adjustable	
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	
Degree of protection (IP)		IP20	
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 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

Approvals

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Product Standards	UL60947-4-1A; CSA-C22.2 No. 14-10; IEC60947-4-1; CE marking
UL File No.	E123500
UL Category Control No.	NKJH
CSA File No.	165628
CSA Class No.	3211-08
North America Certification	UL listed, CSA certified
Specially designed for North America	Yes

Dimensions



IL03402052Z Motorstarter combination: type E starter/type F starter with PKE

IL03402052Z Motorstarter combination: type E ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03402052Z2014_02.pdf starter/type F starter with PKE