DATASHEET - MSC-DE-12-M17-SP(230V50HZ,240V60HZ)



DOL starter, Ir= 3 - 12 A, 230 V 50 Hz, 240 V 60 Hz, AC voltage

MSC-DE-12-M17-SP(230V50HZ,240V60HZ)

Catalog No. 167812

Alternate Catalog XTFCE012BCCSF

No.

Part no.



Delivery program			
Basic function			Type E DOL starters (complete devices)
Basic device			MSC
Components for			North America
Connection to SmartWire-DT			no
Maximum motor rating			
AC HP = PS			
200 V 208 V		HP	3
230 V 240 V		HP	3
460 V 480 V		HP	7.5
Short Circuit Current Rating			
240 V		kA	18
480 Y 277 V		kA	18
Setting range			
Setting range of overload releases	I _r	Α	3 - 12
Contact sequence			M 3~
Actuating voltage			230 V 50 Hz 240 V 60 Hz
			AC voltage

Contactor DILM17-10(...) **DOL starter wiring set**

Motor-protective circuit-breakers PKE12/XTU-12

Mechanical connection element and electrical electric contact module PKZM0-XDM32

Extension terminal BK25/3-PKZ0-E

Notes

The DOL starter type E (complete devices) consists of a PKE motor-protective circuit-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 plate.

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

Technical data General

delierai			
Standards			IEC/EN 60947-4-1, VDE 0660, UL, CSA
Mounting position			
Altitude		m	Max. 2000
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	208 - 600
Rated operational current			
Open, 3-pole: 50 – 60 Hz			
380 V 400 V	le	Α	12
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			PKE motor-protective circuit-breaker, see motor-protective circuit-breaker product group DILM contactors, see contactor product group
DILM contactors			
Current heat loss			
Current heat loss at I _e to AC-3/400 V		W	4.2
Power consumption of the coil in a cold state and 1.0 x $\mbox{U}_{\mbox{\scriptsize S}}$			
Dual-voltage coil 50 Hz	Sealing	W	2.1
Rating data for approved types			
Switching capacity			
Maximum motor rating			
Three-phase			
200 V 208 V		НР	3
230 V 240 V		HP	3
460 V 480 V		HP	7.5
Auxiliary contacts			
Pilot Duty			
AC operated			A600
DC operated			P300
General Use			
AC		V	600

AC	Α	15
DC	V	250
DC	А	1
Short Circuit Current Rating, type E	SCCR	
240 V	kA	18
480 Y / 277 V	kA	18
Short Circuit Current Rating	SCCR	
Basic Rating		
SCCR	kA	5
max. Fuse	Α	90
max. CB	Α	90
480 V High Fault		
SCCR (fuse)	kA	100
max. Fuse	Α	45 Class J/CC
SCCR (CB)	kA	65
max. CB	Α	50
600 V High Fault		
SCCR (fuse)	kA	100
max. Fuse	Α	45 Class J/CC

Design verification as per IEC/EN 61439Technical data for design verification

In	Α	12
P _{vid}	W	1.4
P _{vid}	W	4.2
P _{vs}	W	2.1
P _{diss}	W	0
	°C	-25
	°C	55
		Meets the product standard's requirements.
		Meets the product standard's requirements.
		Meets the product standard's requirements.
		Meets the product standard's requirements.
		Meets the product standard's requirements.
		Does not apply, since the entire switchgear needs to be evaluated.
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		Does not apply, since the entire switchgear needs to be evaluated.
		Meets the product standard's requirements.
		Does not apply, since the entire switchgear needs to be evaluated.
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		Is the panel builder's responsibility.
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		Is the panel builder's responsibility.
		The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
		Is the panel builder's responsibility. The specifications for the switch gear must be observed. $\label{eq:specifications}$
		Is the panel builder's responsibility. The specifications for the switchgear must be observed.
	P _{vid} P _{vid} P _{vs}	Pvid W Pvid W Pvs W Pdiss W °C

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])

[AJZ718013])		
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	3
Rated operation power at AC-3, 400 V	kW	7.5
Rated power, 460 V, 60 Hz, 3-phase	kW	5.52
Rated power, 575 V, 60 Hz, 3-phase	kW	0
Rated operation current le	Α	12
Rated operation current at AC-3, 400 V	Α	12
Overload release current setting	Α	3 - 12
Rated conditional short-circuit current, type 1, 480 Y/277 V	Α	0
Rated conditional short-circuit current, type 1, 600 Y/347 V	Α	0
Rated conditional short-circuit current, type 2, 230 V	Α	0
Rated conditional short-circuit current, type 2, 400 V	Α	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
With transformer		No
Number of command positions		0
Suitable for emergency stop		No
Coordination class according to IEC 60947-4-3		Class 2
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

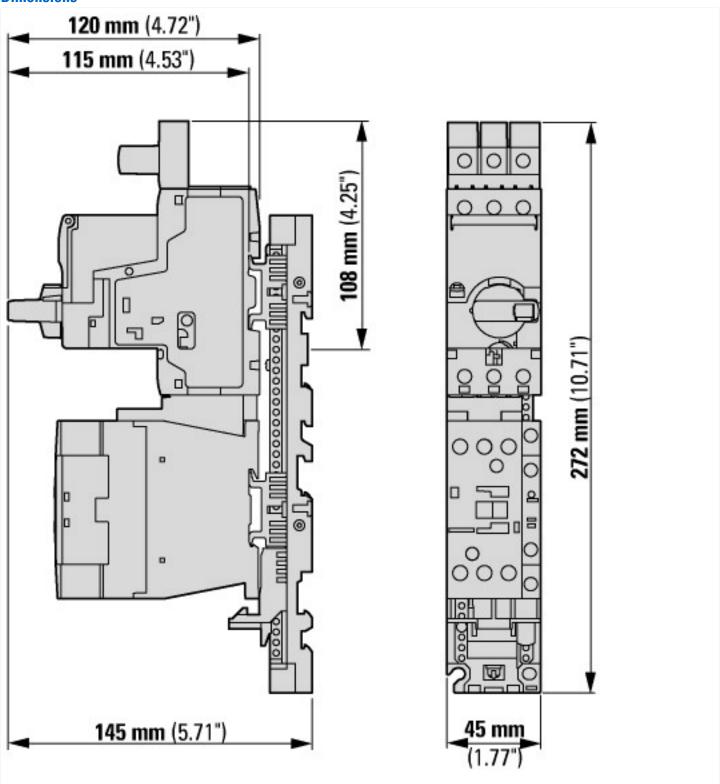
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Supporting protocol for AS-Interface Safety at Work		No
Supporting protocol for DeviceNet Safety		No
Supporting protocol for INTERBUS-Safety		No
Supporting protocol for PROFIsafe		No
Supporting protocol for SafetyBUS p		No
Supporting protocol for other bus systems		No
Width	mm	45
Height	mm	272
Depth	mm	145

Approvals

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.	12528
CSA Class No.	3211-08
North America Certification	UL listed, CSA certified
Specially designed for North America	Yes

Dimensions



Additional product information (links)

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

ILO3402052Z Motorstarter combination: type E starter/type F starter with PKE

 $ILO3402052Z\ Motor starter\ combination: type\ E \\ \quad https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/ILO3402052Z2020_07.pdf$