DATASHEET - MSC-DE-1,2-M17-SP(24VDC)



DOL starter, Ir= 0.3 - 1.2 A, 24 V DC, DC Voltage

Part no. MSC-DE-1,2-M17-SP(24VDC)
Catalog No. 167818

Alternate Catalog XTFCE1P2BCCSTD

No



Delivery program

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			
460 V 480 V		HP	0.5
Short Circuit Current Rating			
240 V		kA	14
480 Y 277 V		kA	14
Setting range			
Setting range of overload releases	I _r	Α	0.3 - 1.2
Contact sequence			M 3~
Actuating voltage			24 V DC
			DC Voltage

Motor-protective circuit-breakers PKE12/XTU-1,2

Contactor DILM17-10(...)

DOL starter wiring set

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-PKZO, a DILM contactor and an extension terminal BK25/3-PKZO-E.

Technical data

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Standards			IEC/EN 60947-4-1, VDE 0660, UL, CSA
Mounting position			
Altitude		m	Max. 2000
Ambient temperature			-25 - +55
Main conducting paths		V 40	0000
Rated impulse withstand voltage	U _{imp}	V AC	6000
Overvoltage category/pollution degree		.,	III/3
Rated operational voltage	U _e	V	208 - 480
Rated operational current			
Open, 3-pole: 50 – 60 Hz			
380 V 400 V	l _e	Α	1.2
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	1.2
Power consumption			
DC operated	Sealing	W	0.86
Rating data for approved types			
Switching capacity			
Maximum motor rating			
Three-phase			
460 V 480 V		HP	0.5
Auxiliary contacts			
Pilot Duty			
AC operated			A600
DC operated			P300
General Use			
AC		V	600
AC		Α	15
DC		V	250
DC		Α	1
Short Circuit Current Rating, type E		SCCR	
240 V		kA	14
480 Y / 277 V		kA	14
Short Circuit Current Rating		SCCR	

600 V High Fault			
SCCR (fuse)	k	kA	100
max. Fuse	A	A	6 Class J/CC

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	1.2
Heat dissipation per pole, current-dependent	P _{vid}	W	0.4
Equipment heat dissipation, current-dependent	P _{vid}	W	1.2
Static heat dissipation, non-current-dependent	P _{vs}	W	0.86
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 switch gear must be observed. $\label{eq:constraint}$
10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switch gear must be observed. $\label{eq:constraint}$
10.13 Mechanical function			The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. $\label{eq:continuous}$

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])

	Direct starter
	Yes
V	0 - 0
V	0 - 0
V	24 - 24
	DC
kW	0.18
kW	7.5
kW	0.37
kW	0.37
	V V kW kW

Paste coloration current Paste coloration P			
Ownfood ratiosas current senting A 0.3.12 Rated conditional inter-circular current, type 1, 690 YCZY Y A 0 Rated conditional start circular current, type 1, 690 YCZY Y A 0 Rated conditional start circular current, type 2, 600 Y A 0 Rated conditional start circular current, type 2, 600 Y A 0 Number of locality corrects as namelly cense control. 1 1 Number of locality corrects as namely cense control. 1 No. Tamperature currenpeased revel and protection 1 No. Tamperature currenpeased revel and protection 4 No. Tamperature protection of main circuit 4 No. Type of electrical cannection of main circuit 4 No. Type of electrical cannection of main circuit 4 No. Type of electrical cannection of		Α	
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Risable canditional aborts circuit current, type 2, 200 y A 0 Risable canditional shorts circuit current, type 2, 200 y A 0 Number of suchiary contacts as normally coan cartact I 1 Number of suchiary contacts as normally coan cartact I 1 Number of suchiary contacts as normally coan cartact I 0 Administratory status, page operating limit I 0 0 Temperature compensated overload protection I Very contacts and connection of main circuit I Very contacts and connection of main circuit I Screw connection Type of identical connection of main circuit I No Screw connection Type of identical connection of main circuit I No Screw connection Who transformed I No Screw connection Who transformed I No Control contacts (alms contacts) (alms co	Overload release current setting	Α	0.3 - 1.2
Rate conditional short circuit current, type 2, 200 V	Rated conditional short-circuit current, type 1, 480 Y/277 V	Α	0
Number of auxiliary contracts as normally open contract	Rated conditional short-circuit current, type 1, 600 Y/347 V	Α	0
Number of auxiliary contacts as normally lopen contact	Rated conditional short-circuit current, type 2, 230 V	Α	0
Number of auxiliary contacts as normally closed contact	Rated conditional short-circuit current, type 2, 400 V	Α	0
Ambient temperature, upper operating limit Feneperature compensated overload protection Feneperature compensated overload protection Feneperature compensated overload protection Figure of electrical connection of main circuit Type of electrical connection for auxiliary- and control current circuit Fall mounting possible Fall mounting possible Ves No Number of command possibons Number of command possibons Number of command possibons Number of indicator lights N	Number of auxiliary contacts as normally open contact		1
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Height mm 272	Supporting protocol for other bus systems		No
	Width	mm	45
Depth mm 145	Height	mm	272
	Depth	mm	145

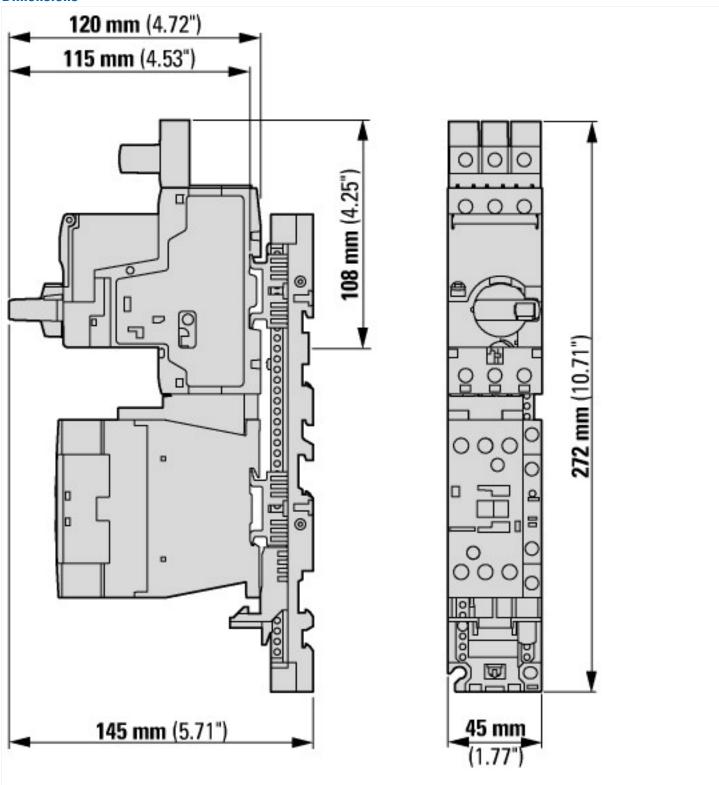
Approvals

• •	
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

Specially designed for North America

Yes

Dimensions



Assets (links)

Declaration of CE Conformity

00003119

Instruction Leaflets

IL03402052Z2018_03

Additional product information (links)

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

starter/type F starter with PKE

IL03402052Z Motorstarter combination: type E ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03402052Z2018_03.pdf