# DATASHEET - MSC-DEA-12-M17-SP(24VDC)



DOL starter, Ir: 3 - 12 A, Connection to SmartWire-DT: yes, 24 V DC, DC Voltage

Part no. Catalog No. Alternate Catalog No.

MSC-DEA-12-M17-SP(24VDC) 167824 log XTFCE012BCCATD



## **Delivery program**

Derivery program			
Basic function			Type E DOL starters (complete devices)
Basic device			MSC
Components for			North America
Connection to SmartWire-DT			yes in conjunction with PKE-SWD-32 SmartWire DT PKE module
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	l <sub>r</sub>	A	3 - 12
Contact sequence			
Actuating voltage			24 V DC
			DC Voltage
Motor-protective circuit-breakers PKE12/XTU-12			
Contactor DILM17-01()			

DOL starter wiring set

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.

The MSC-DEA... DOL starters are prepared for communication via SmartWire-DT. In order to be used this way, they first need to be expanded with the PKE-SWD-32 communications module.

Technical data			
General			
Standards			IEC/EN 60947-4-1, VDE 0660, UL, CSA
Mounting position			
Main conducting paths			
Rated impulse withstand voltage	U <sub>imp</sub>	V AC	6000
Overvoltage category/pollution degree			III/3
Rated operational voltage	U <sub>e</sub>	V	208 - 600
Rated operational current			
Open, 3-pole: 50 – 60 Hz			
380 V 400 V	Ι <sub>e</sub>	А	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 produc group DILM contactors, see contactor product group
DILM contactors			
Current heat loss			
Current heat loss at $\rm I_{e}$ to AC-3/400 V		W	4.2
Power consumption			
DC operated	Sealing	W	0.86
Rating data for approved types			
Switching capacity			
Maximum motor rating			
Three-phase			
200 V 208 V		HP	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		А	15

DC	V		250
DC	A		1
Short Circuit Current Rating, type E	S	CCR	
240 V	k	Ą	18
480 Y / 277 V	k	A	18

# Design verification as per IEC/EN 61439

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Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	12
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	1.4
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	4.2
Static heat dissipation, non-current-dependent	P <sub>vs</sub>	W	0.86
Heat dissipation capacity	P <sub>diss</sub>	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 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])

Kind of motor starter		Direct starter
With short-circuit release		Yes
Rated control supply voltage Us at AC 50HZ	V	0 - 0
Rated control supply voltage Us at AC 60HZ	V	0 - 0
Rated control supply voltage Us at DC	V	24 - 24
Voltage type for actuating		DC
Rated operation power at AC-3, 230 V, 3-phase	kW	3
Rated operation power at AC-3, 400 V	kW	7.5

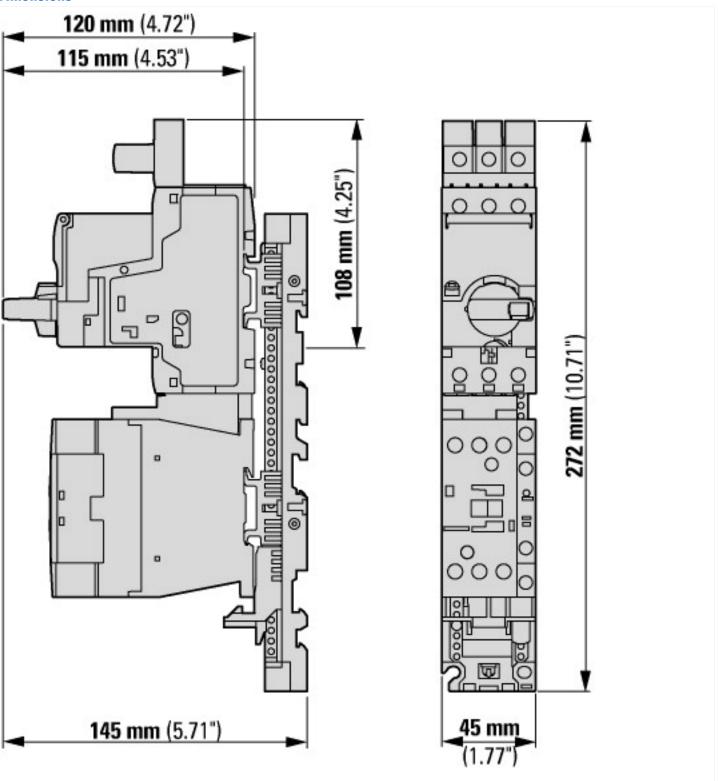
initial production of the plane in the production of the plane in the pla	Rated power, 460 V, 60 Hz, 3-phase	kW	5 62
indequencion current hable 3, 000     i			5.52
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Animeter comparated overbad protection Image: Second Sec	Number of auxiliary contacts as normally open contact		0
Temperature comparated overland protection     Net       Release Lass     Adjustable       Type of electrical connection of main circuit     Scrow connection       Poor of electrical connection for availance circuit     Scrow connection       Relinearing passible     Vac       With transformer     O       Number of connection for availance circuit     Scrow connection       Stable for emergency stop     O       Coordination class according to Edebf-4-3     Scrow Connection       Muther of connection (PSM)     Scrow Connection       Degree of protection (PSM)     Scrow Connection       Degree of protection (PSM)     Scrow Connection       Degree of protection (PSM)     Scrow Connection       Supporting protect for PMOFB0S     O       Supporting protect for PMOFB0S     Scrow Connection       Supporting protect for PMOFB0S     Scrow Connection       Supporting protect for MUTBB0S     Scrow Connection	Number of auxiliary contacts as normally closed contact		1
Release also     Adjustable       Type el electrical connection main circuit     Serve connection       Type el electrical connection main circuit     Serve connection       Baha outing possible     Va       With transform     Va       Stable for management     Serve connection       Stable f	Ambient temperature, upper operating limit	°C	60
Type of electrical connection for auxilary, and control current circuit     Rever connection       Type of electrical connection for auxilary, and control current circuit     Since connection       Rail mauring possible     No       With and aform     No       Stable for emerginery stop     Since connection       Number of incident lights     Since connection       Number of incident lights     Since connection       Number of incident lights     Since connection       Degree of protection IPAN     Since connection       Supporting protection IPAN <t< td=""><td>Temperature compensated overload protection</td><td></td><td>Yes</td></t<>	Temperature compensated overload protection		Yes
Type of electrical connection for subliary and control current circuit     Image of control control current circuit     Ver connection       Rail mounding possible     Ver connection     Ver connection       Suble for emergency stop     0     0       Condition class according to ELC0074-3     Ver connection     Ver connection       Bernard rest possible     Ver connection     Ver connection       Condition class according to ELC0074-43     Ver connection     Ver connection       Condition class according to ELC0074-43     Ver connection     No       Condition class according to ELC0074-43     Ver connection     No       Condition class according to ELC0074-43     Ver connection     No       Supporting protocol for CAN     No     No       Supporting protocol for CAN     No     No       Supporting protocol for CAN     No     No       Supporting protocol for PROFINET CAN	Release class		Adjustable
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Number     Number     Number       Number of command positions     0     0       Suitable or emergery step     0     0       Contrinsion closes according to EC08947-4.3     0     0       Contrinsion closes according to EC08947-4.3     0     0       Degree of protection life     0     0     0       Degree of protection NEMAN     0     0     0       Degree of protection NEMAN     0     0     0       Supporting protect for PAPIP     0     0     0     0     0     0     0     0     0     0     0     0     0	Type of electrical connection for auxiliary- and control current circuit		Screw connection
Number of commany positions     Image: Positions     Positions     Positions       Subble for emergancy stop     Positions     Res	Rail mounting possible		Yes
Subable for emergency stop     Non-     Non-       Conditation class according to EC 6997-4-3     Consol     Consol       Number of indicator lights     Sol     Sol     Sol       Extrant react possible     Non-     Non-     Sol     Sol<	With transformer		No
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Numer of indicator lights     Image: Provide State Sta	Suitable for emergency stop		No
Remain ever possible   No     With fuse   No     Degree of protection (NEMA)   P20     Supporting protection (NEMA)   Mo     Supporting protection for PG0FBUS   No     Supporting protection F00FDUS   No     Supporting protection	Coordination class according to IEC 60947-4-3		Class 2
Whitese   No     Degree of protection (NEMA)   P20     Supporting protect for CAN   Char     Supporting protect for CAN   No     Supporting protect for MOEDBUS   No     Supporting protect for Support Su	Number of indicator lights		0
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Degree of protection (NEMA)     Image: Protection (NEMA)     Other       Supporting protocol for CPAP     No       Supporting protocol for CAN     No       Supporting protocol for SUCONET     No       Supporting protocol for SPRINET CBA     No	With fuse		No
Supporting protocol for TCP/IP     No       Supporting protocol for PAGHBUS     No       Supporting protocol for AN     No       Supporting protocol for ANS     No       Supporting protocol for MODBUS     No       Supporting protocol for ANS     No       Supporting protocol for MODBUS     No       Supporting protocol for MODBUS     No       Supporting protocol for MODBUS     No       Supporting protocol for SUCONET     No       Supporting protocol for SUCONET     No       Supporting protocol for SUCONET     No       Supporting protocol for PAGHINETOB     No       Supporting protocol for SUCONET     No       Supporting protocol for SURGOS     No       Supporting protocol for	Degree of protection (IP)		IP20
Supporting protocol for PADFIBUS     Image: Supporting protocol for CAN     Image: Supporting protocol for INTERBUS       Supporting protocol for INTERBUS     Image: Supporting protocol for MODBUS     Image: Supporting protocol for MODBUS       Supporting protocol for Data-Highway     Image: Supporting protocol for DoviceNet     Image: Supporting protocol for DoviceNet       Supporting protocol for DoviceNet     Image: Supporting protocol for SUCONET     Image: Supporting protocol for SUCONET       Supporting protocol for PADFINET IO     Image: Supporting protocol for SUCONET     Image: Supporting protocol for SUCONET       Supporting protocol for SUCONET     Image: Supporting protocol for SUCONET     Image: Supporting protocol for SUCONET       Supporting protocol for SUCONET     Image: Supporting protocol for SUCONET     Image: Supporting protocol for SUCONET       Supporting protocol for SUCONET     Image: Supporting protocol for SUCONET     Image: Supporting protocol for SUCONET       Supporting protocol for SUCONET     Image: Supporting protocol for SUCONET     Image: Supporting protocol for SUCONET       Supporting protocol for SUCONET     Image: Supporting protocol for SUCONET     Image: Supporting protocol for SUCONET       Supporting protocol for SUCONET     Image: Supporting protocol for SUCONET     Image: Supporting protocol for SUCONET       Supporting protocol for SUCONET	Degree of protection (NEMA)		Other
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Supporting protect for INTERBUS     Image: style	Supporting protocol for PROFIBUS		No
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Supporting protocol for PROFINET IO     Mode       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 DiviceNet Safety at Work     No       Supporting protocol for INTERBUS-Safety     Mode       Supporting protocol for SNERCOS     No       Supporting protocol for Notation Fieldbus     No       Supporting protocol for EtherNet/IP     No       Supporting protocol for Notation Fieldbus     No       Supporting protocol for Snerose     Mode       Suporting protocol for Snerose     Mode </td <td></td> <td></td> <td></td>			
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Supporting protocol for SERCOS   No     Supporting protocol for Foundation Fieldbus   No     Supporting protocol for EtherNet/IP   No     Supporting protocol for AS-Interface Safety at Work   No     Supporting protocol for INTERBUS-Safety   No     Supporting protocol for PROFIsafe   No     Supporting protocol for SafetyBUS p   No     Supporting protocol for SafetyBUS p   No     Supporting protocol for other bus systems   No     Width   mm     Height   Ma			
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# Approvals

Approvais	
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 certifie
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

IL03402052Z Motorstarter combination: type E ftp://ftp.moeller.net/DOCUMENTATION/AWA\_INSTRUCTIONS/IL03402052Z2018\_03.pdf starter/type F starter with PKE