# DATASHEET - MSC-DE-4-M17-SP(24V50/60HZ)



DOL starter, Ir= 1 - 4 A, 24 V 50/60 Hz, AC voltage

Part no. MSC-DE-4-M17-SP(24V50/60HZ)
Catalog No. 167815

Alternate Catalog XTFCE004BCCST

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	0.75
230 V 240 V		HP	0.75
460 V 480 V		HP	2
Short Circuit Current Rating			
240 V		kA	18
480 Y 277 V		kA	18
Setting range			
Setting range of overload releases	I <sub>r</sub>	A	1-4
Contact sequence			M 3~
Actuating voltage			24 V 50/60 Hz
			AC voltage

Contactor DILM17-10(...)

Motor-protective circuit-breakers PKE12/XTU-4

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-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

delleral			
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 <sub>imp</sub>	V AC	6000
Overvoltage category/pollution degree			111/3
Rated operational voltage	U <sub>e</sub>	٧	208 - 600
Rated operational current			
Open, 3-pole: 50 – 60 Hz			
380 V 400 V	le	Α	4
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	1.5
Power consumption of the coil in a cold state and 1.0 x $\ensuremath{\text{U}_{\text{S}}}$			
Sealing power	Sealing	CO	2.1
Rating data for approved types			
Switching capacity			
Maximum motor rating			
Three-phase			
200 V 208 V		HP	0.75
230 V 240 V		HP	0.75
460 V 480 V		HP	2
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	18
480 Y / 277 V	kA	18

# Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	4
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0.5
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	1.5
Static heat dissipation, non-current-dependent	P <sub>vs</sub>	W	2.1
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 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.

### **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])

[AJZ/18013])		
Kind of motor starter		Direct starter
With short-circuit release		Yes
Rated control supply voltage Us at AC 50HZ	V	24 - 24
Rated control supply voltage Us at AC 60HZ	V	24 - 24
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

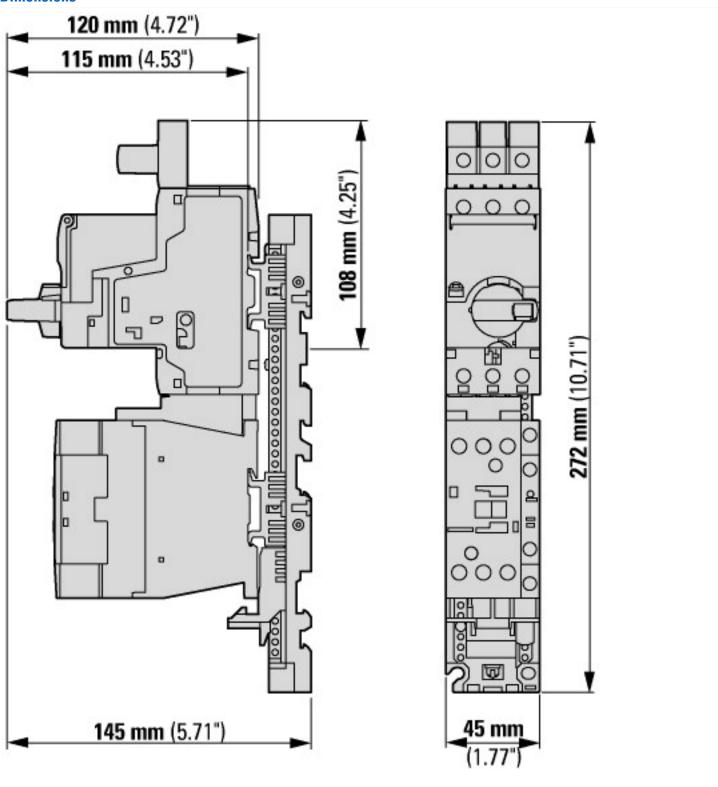
Raide power, 49 N, 59 N, 29 niles   147   147   148	Peted encyclical accuse at AC 2, 400 V	LAA	7.5
Reade poposes, TSY V, 60 HL, 3-phases	Rated operation power at AC-3, 400 V		7.5
Rated operation current is AGS_400 V         A         4           Rated operation current is AGS_400 V         A         4           Childred or fundament current is AGS_400 V         A         1           Rated conditional and consist current type 1, 480 Y277 V         A         0           Rated conditional abort-circuit current type 1, 480 Y278 V         A         0           Rated conditional abort-circuit current type 2, 480 V         A         0           Rated conditional abort-circuit current type 2, 480 V         A         0           Rated conditional abort-circuit current type 2, 480 V         A         0           Number of a sualitary contacts as romanly oper contact         U         0           Number of a sualitary contacts as romanly operations         V         AG           Reliance class         V         AG         AG           Number of a sualitary contacts as romanly operations         V         AG           Number of sualitary contacts as romanly operations         V         AG           Number of sualitary contacts as romanly operations         V         AG           Number of sualitary contacts as romanly operations         V         AG           Number of sualitary contacts as romanly operations         V         AG           Number of sualitary contacts as roman			
Placed aperation current at APC 3, 400 V			
Number of content section   Number of content content type 1, 400 Y/277 V			
Ratical conditional shorts circuit current, type 1, 40 V/37 V	Rated operation current at AC-3, 400 V	Α	4
Number of content content current, type 1,060 Y/367 V	Overload release current setting	Α	1 - 4
Rated conditional short-circuit current, type 2, 200 V	Rated conditional short-circuit current, type 1, 480 Y/277 V	Α	0
Reside candificant short-circuit current, type 2, 400 V	Rated conditional short-circuit current, type 1, 600 Y/347 V	Α	0
Number of auxiliary contacts as normally open contact Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally closed contact Temperature compensated overload protection Temperature compensated overload protection Tolesans class Type of electrical connection of main circuit Type of electrical connection of main circuit Type of electrical connection of main circuit Type of electrical connection for auxiliary- and central current circuit Type of electrical connection for auxiliary- and central current circuit Type of electrical connection of main circuit Type of electrical connection for auxiliary- and central current circuit Type of electrical connection for auxiliary- and central current circuit Type of electrical connection of main circuit Type of electrical connection for auxiliary- and central current circuit Type of electrical connection for auxiliary- and central current circuit Type of electrical connection of main circuit Type of electrical connection for auxiliary- and central current circuit Type of electrical connection for auxiliary- and central current circuit Type of electrical connection of main circuit Type of electrical connection of main circuit Type of electrical connection of auxiliary- and central current circuit Type of electrical connection of auxiliary- and central current circuit Type of electrical connection of auxiliary- and central current circuit Type of electrical connection of auxiliary- and central current circuit Type of electrical connection of type of electrical connection of type of electrical connection current circuit Type of electrical connection of type of electrical current circuit Type of electrical connection of type of electrical current circuit Type of electrical connection of type of electrical current circuit Type of electrical connection of type of electrical current circuit Type of electrical connection of type of electrical current circuit Type of electrical current ci	Rated conditional short-circuit current, type 2, 230 V	Α	0
Number of auxiliarry contracts 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  Feneperature compensated overload protection  Final mounting possible  Full mounting pos	Number of auxiliary contacts as normally open contact		1
Temperature compensated overload protection         Yes           Release class         Adjustable           Type of electrical connection of main circuit         Server connection           Type of electrical connection for auxiliary and control current circuit         Server connection           Rall mounting possible         Yes           With transformer         No           Non-Institute of command positions         0           Suitable for emergency stop         Class 2           Coordination class according to IEC 6987-4-3         No           Non-Institute of command positions         0           Exturnal roset possible         No           With frase         No           Pegrare of protection (IPE         No           Degree of protection (IPE         Piezo           Degree of protection (IPEMA)         No           Supporting protect of for TCP/IP         No           Supporting protect of for TCP/IP         No           Supporting protect of for MOBUS         No           Supporting protect of for MOBUS         No           Supporting protect of for Data-Highway         No           Supporting protect of for Data-Highway         No           Supporting protect of for FMORINET IO         No           Supporting protect of f	Number of auxiliary contacts as normally closed contact		0
Relazae class Type of electrical connection of man circuit Type of electrical connection for municircuit Rall mounting possible With transformer Number of command positions Number of command positions Substable for emorgency atop Coordination class according to IEC 0897-4-3 Number of indicator lights External reset possible With fisae Degree of protection (IP) Supporting protect for CAN Supporting protect of for Data-Highway Supporting protect of row-eaket Supporting protect of row-eaket Supporting protect for Foundation Felbus Supporting protect for Power-Mex Supporting protect for Foundation Felbus Supporting protect for Foundation Felbus Supporting protect for Foundation Felbus Supporting protect for Power-Mex Supporting protect for Foundation Felbus Supp	Ambient temperature, upper operating limit	°C	60
Type of electrical connection of manic circuit         Screw connection           Type of electrical connection for auxiliary- and control current circuit         Yes           Rail mounting possible         No           Number of command positions         0           Suitable for omergency stop         No           Coordination class according to IEC 60047-43         No           Number of indicator lights         0           External reset possible         No           With fras         1920           Degree of protection (IP)         1920           Degree of protection (IP)         0           Degree of protection (NEMA)         0           Supporting protocol for PROFIBUS         No           Supporting protocol for MOBBUS         No           Supporting protocol for SUONET         No           Supporting protocol for DeviceNet         No           Supporting protocol for DeviceNet         No           Supporting protocol for PROFINET IO         No           Supporting protocol for PROFINET IO         No	Temperature compensated overload protection		Yes
Type of electrical connection for auxiliary- and central current circuit         Screw connection           Rall mounting possible         Yos           With transformer         No           Noth transformer         0           Suitable for emergency stop         No           Coordination class according to IEE 68947-4-3         Class 2           Nomber of indicator sights         No           External reset possible         No           With fusa         No           Degree of protection IPI         P20           Degree of protection INMAN         Other           Supporting protected for TCP/IP         No           Supporting protected for TCREIUS         No           Supporting protected for TCREIUS         No           Supporting protected for AUX         No           Supporting protected for MUDBUS         No           Supporting protected for MUDBUS         No           Supporting protected for PREFIELD         No	Release class		Adjustable
Rall mounting possible         Yes           With teanformer         No           Number of command positions         0           Stablable for emergency stop         No           Coordination class according to IEC 50947-4-3         Class 2           Number of indicator lights         0           External reset possible         No           With fuse         No           Degree of protection (IP)         IP20           Degree of protection (IREMA)         Other           Supporting protocol for FORDFIBUS         No           Supporting protocol for FORDFIBUS         No           Supporting protocol for FORDFIBUS         No           Supporting protocol for MOBBUS         No           Supporting protocol for MOBBUS         No           Supporting protocol for MOBBUS         No           Supporting protocol for Double         No           Supporting protocol for FORDFINE IO	Type of electrical connection of main circuit		Screw connection
With transformer         No           Number of command positions         0           Suitable for emergency stop         No           Conformation class according to IEC 80847-43         Class 2           Number of indicator lights         0           External reset possible         No           With fuse         No           Degree of protection (IP)         IP28           Degree of protection (NEMA)         Other           Supporting protocol for TCP/IP         No           Supporting protocol for TCR/IP         No           Supporting protocol for INTERBUS         No           Supporting protocol for MOBIUS         No           Supporting protocol for INTERBUS         No           Supporting protocol for INTERBUS         No           Supporting protocol for INTERBUS         No           Supporting protocol for Data-Highway         No           Supporting protocol for Data-Highway         No           Supporting protocol for DeviceNet         No           Supporting protocol for SUCONET         No           Supporting protocol for FRDFIRET IO         No           Supporting protocol for FRDFIRET IO         No           Supporting protocol for FRDFIRET IO         No           Supporting protocol f	Type of electrical connection for auxiliary- and control current circuit		Screw connection
Number of command positions                   No           Suitable for emergency stop                   No           Coordination class according to IEC 69847-4-3                   Class 2           Number of indicator lights                   No           External reast possible                   No           With fuse                   No           Degree of protection INEANA)                   IP20           Supperding protect for TCPIPP         No           Supperding protect for FORFIBUS         No           Supperding protect for FORFIBUS         No           Supperding protect for ASI         No           Supperding protect for MODBUS         No           Supperding protect for DaviceNet         No           Supperding protect for PROFINET (O         No           Supperding protect for FROFINET (O         No	Rail mounting possible		Yes
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Coordination class according to IEC 60947-4-3         Class 2           Number of indicator lights         0           External reset possible         No           With Luss         No           Degree of protection (IP)         IP20           Degree of protection (INEMA)         Other           Supporting protocol for TCPIPP         No           Supporting protocol for PROFIBUS         No           Supporting protocol for CAN         No           Supporting protocol for ASI         No           Supporting protocol for MOBUS         No           Supporting protocol for MOBUS         No           Supporting protocol for Bat-Highway         No           Supporting protocol for But-Highway         No           Supporting protocol for SUCONET         No           Supporting protocol for EVERNET         No           Supporting protocol for PROFINET (BA         No           Supporting protocol for PROFINET (BA         No           Supporting protocol for SERCOS         No           Supporting protocol for FROFINET (BA         No           Supporting protocol for Exertave Interface Safety at Work         No           Supporting protocol for Exertave Safety         No           Supporting protocol for Exertave Safety         No	Number of command positions		0
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Supporting protocol for PROFIsafe Supporting protocol for SafetyBUS p Supporting protocol for other bus systems No Width Midth	Supporting protocol for DeviceNet Safety		No
Supporting protocol for SafetyBUS p No Supporting protocol for other bus systems No Width mm 45 Height mm 272	Supporting protocol for INTERBUS-Safety		No
Supporting protocol for other bus systems No Width mm 45 Height 272	Supporting protocol for PROFIsafe		No
Width mm 45 Height mm 272	Supporting protocol for SafetyBUS p		No
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
North America Certification	UL listed, CSA certified
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