## DATASHEET - MSC-D-0,25-M7(230V50HZ)/BBA

Part no.



DOL starter, 3p, 0.06kW/400V/AC3, 100kA, +busbar adapter

MSC-D-0,25-M7(230V50HZ)/BBA

Catalog No. 102737

Alternate Catalog XTSCP25B007BFNL-A

No

EL-Nummer (Norway)

4315408

Powering Business Worldwide\*

and the same of th			
Delivery program			
Basic function			DOL starters (complete devices)
Basic device			MSC
			IE3 ✓
Notes			Also suitable for motors with efficiency class IE3. IE3-ready devices are identified by the logo on their packaging.
Connection to SmartWire-DT			no
Motor ratings			
Motor rating			
AC-3			
380 V 400 V 415 V	P	kW	0.06
Rated operational current			
AC-3			
380 V 400 V 415 V	l <sub>e</sub>	Α	0.21
Rated short-circuit current 380 - 415 V	Iq	kA	100
Setting range			
Setting range of overload releases	I <sub>r</sub>	Α	0.16 - 0.25
卓			
Coordination			Type of coordination "1" Type of coordination "2"
Contact sequence			M 3~
Actuating voltage			230 V 50 Hz, 240 V 60 Hz
			AC voltage
Motor-protective circuit-breakers PKZM0-0,25			

Notes

Contactor DILM7-10(...) **DOL starter wiring set** 

Mechanical connection element and electrical electric contact module PKZM0-XDM12

BK25/3-PKZ0-E extension terminal and if necessary B3.../...-PKZ0 three-phase commoning link can be added to motor-starter combinations to make Type F starters in accordance with UL508.

#### Notes

The DOL starters (complete units) consist of a PKZM0 motor protective circuit breaker and a DILM contactor. These combinations are mounted on the busbar adapters.

The connection of the main circuit between the motor protective circuit breaker and the contactor is established with an electrical contact module.

Cannot be combined with NHI-E-...-PKZ0-C standard auxiliary contact with spring-cage terminal.

Further information
Technical data PKZM0
Accessories PKZ
Technical data DILM
Accessories DILM

Page

→ PKZM0 → 072896

→ DILM → 281199

## **Technical data**

### General

Standards			UL 508 (on request) CSA C 22.2 No. 14 (on request)
Main conducting paths			
Rated impulse withstand voltage	$U_{\text{imp}}$	V AC	6000
Overvoltage category/pollution degree			III/3
Rated operational voltage	U <sub>e</sub>	V	230 - 415
Rated operational current			
Open, 3-pole: 50 – 60 Hz			
380 V 400 V	le	Α	0.25

#### **Additional technical data**

Motor protective circuit breaker PKZM0, PKE			PKZM0 motor-protective circuit-breakers, see motor-protective circuit-breakers/ PKZM0 product group DILM contactors, see contactor product group DILET timing relay, ETR, see contactors, electronic timing relays product group
DILM contactors			
Power consumption of the coil in a cold state and 1.0 x $\ensuremath{\text{U}_{\text{S}}}$			
Dual-voltage coil 50 Hz	Sealing	W	1.2

#### **Rating data for approved types**

	A600
	P300
V	600
А	15
V	250
Α	1
	A V

## Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	0.25
Heat dissipation per pole, current-dependent	$P_{vid}$	W	1.9
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	5.7
Static heat dissipation, non-current-dependent	$P_{vs}$	W	1.4
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 $ \frac{1}{2} \left( \frac{1}{2} \right) = \frac{1}{2} \left( \frac{1}{2} \right) \left($			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])

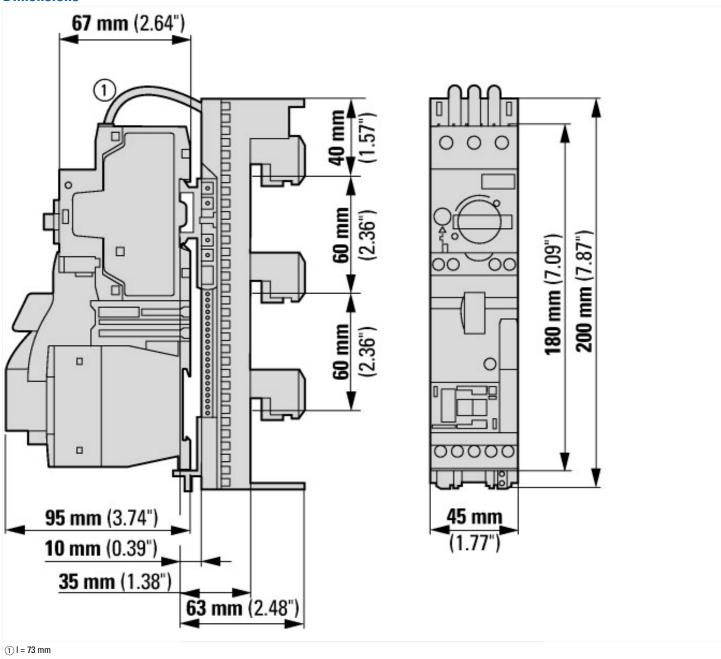
Kind of motor starter         Kind of motor starter         Yes         Center           With short-circuit release         Ye         230 - 230           Rated control supply voltage Us at AC 50HZ         V         0 - 0           Rated control supply voltage Us at DC         VO         0 - 0           Voltage type for actuating         kW         0.04           Rated operation power at AC-3, 240 V         kW         0.04           Rated operation power at AC-3, 400 V         kW         0.06           Rated operation power at AC-3, 400 V         kW         0.06           Rated operation power at AC-3, 400 V         kW         0.06           Rated operation current tell         A         0.21           Rated operation current at AC-3, 400 V         A         0.25           Rated operation current at AC-3, 400 V         A         0.25           Rated operation current at AC-3, 400 V         A         0.25           Rated operation current at AC-3, 400 V         A         0.06           Rated operation current at AC-3, 400 V         A         0.00           Rated conditional short-circuit current, type 1, 600 V;347 V         A         0           Rated conditional short-circuit current, type 2, 400 V         A         50000           Number of auxi	[ 102. 100.10 <sub>1</sub> ]		
Rated control supply voltage Us at AC 50HZ         V         230 - 230           Rated control supply voltage Us at AC 60HZ         V         0 - 0           Rated control supply voltage Us at DC         V         0 - 0           Voltage type for actuating         KW         0.04           Rated operation power at AC 3, 230 V, 3-phase         kW         0.06           Rated operation power at AC 3, 400 V         kW         0           Rated power, 575 V, 60 Hz, 3-phase         kW         0           Rated operation current Ie         A         0.21           Rated operation current at AC 3, 400 V         A         0.25           Rated operation current at AC 3, 400 V         A         0.25           Rated conditional short-circuit current, type 1, 480 Y/277 V         A         0           Rated conditional short-circuit current, type 2, 230 V         A         0           Rated conditional short-circuit current, type 2, 400 V         A         50000           Rated conditional short-circuit current properating limit         C         6           Number of auxiliary contacts as normally open contact         Yes         1           Number of auxiliary contacts as normally closed contact         CLASS 10         CLASS 10           Type of electrical connection of main circuit         Screw co	Kind of motor starter		Direct starter
Rated control supply voltage Us at AC 60HZ Rated control supply voltage Us at DC V 0 - 0 V 0 - 0 Voltage type for actuating Rated operation power at AC-3, 230 V, 3-phase Rated operation power at AC-3, 230 V, 3-phase Rated operation power at AC-3, 240 V Rated power, 460 V, 60 Hz, 3-phase Rated power, 575 V, 60 Hz, 3-phase Rated operation current te Rated operation current at AC-3, 400 V Rated power, 575 V, 60 Hz, 3-phase Rated operation current at AC-3, 400 V Rated power, 575 V, 60 Hz, 3-phase Rated operation current at AC-3, 400 V Rated conditional short-circuit current, type 1, 480 Y/Z77 V Rated conditional short-circuit current, type 1, 480 Y/Z77 V Rated conditional short-circuit current, type 1, 500 V/347 V Rated conditional short-circuit current, type 2, 230 V Rated conditional short-circuit current, type 2, 230 V Rated conditional short-circuit current, type 2, 240 V Rated conditional short-circuit current, type 2, 400 V Rumber of auxiliary contacts as normally open contact Number of auxiliary contacts as normally open contact Ambient temperature, upper operating limit CC 60  Temperature compensated overload protection Release class Type of electrical connection of main circuit Type of electrical connection of main circuit Type of electrical connection for auxiliary- and control current circuit Rail mounting possible Ves With transformer No No No Nounber of command positions Suitable for emergency stop Coordination class according to IEC 60947-4-3 Number of indicator lights External reset possible	With short-circuit release		Yes
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         0.04           Rated operation power at AC-3, 400 V         kW         0.06           Rated power, 450 V, 60 Hz, 3-phase         kW         0           Rated operation current le         A         0.21           Rated operation current at AC-3, 400 V         A         0.25           Overload release current setting         A         0.16 - 0.25           Rated conditional short-circuit current, type 1, 480 Y/277 V         A         0           Rated conditional short-circuit current, type 2, 230 V         A         0           Rated conditional short-circuit current, type 2, 230 V         A         50000           Rated conditional short-circuit current, type 2, 240 V         A         50000           Rated conditional short-circuit current, type 2, 240 V         A         50000           Rated conditional short-circuit current, type 2, 240 V         A         60           Rated conditional short-circuit current, type 2, 400 V         A         50000           Number of auxiliary contacts as normally closed contact         C         60           Temperature cupper operating limit         *C         60	Rated control supply voltage Us at AC 50HZ	V	230 - 230
Voltage type for actuating Rated operation power at AC-3, 230 V, 3-phase Rated operation power at AC-3, 400 V Rated power, 480 V, 60 Hz, 3-phase Rated power, 480 V, 60 Hz, 3-phase Rated operation current le Rated power, 575 V, 60 Hz, 3-phase Rated power, 575 V,	Rated control supply voltage Us at AC 60HZ	V	0 - 0
Rated operation power at AC-3, 230 V, 3-phase Rated operation power at AC-3, 400 V Rated power, 480 V, 60 Hz, 3-phase Rated power, 480 V, 60 Hz, 3-phase Rated operation current le Rated operation current at AC-3, 400 V Rated conditional short-circuit current, type 1, 480 Y/277 V Rated conditional short-circuit current, type 1, 480 Y/277 V Rated conditional short-circuit current, type 1, 480 Y/277 V Rated conditional short-circuit current, type 2, 230 V Rated conditional short-circuit current, type 2, 230 V Rated conditional short-circuit current, type 2, 400 V Rated conditional short-circuit current, type 3, 400 V Rated conditional short-circuit current, type 2, 400 V Rated conditional short-circuit current, type 3, 400 V Rated conditional short-circuit current, type 4, 400 V Rated conditional short-circuit current, type 1, 480 Y/277 V Rated conditional short-circuit current, type 1, 600 Y/347 V Rated conditional short-circuit current type 1, 480 Y/277 V Rated conditional short-circuit current type 1, 480 Y/277 V Rated conditional short-circuit current type 1, 480 Y/277 V Rated conditional short-circuit current type 1, 480 Y/277 V Rated conditional short-circuit current type 1, 480 Y/277 V Rated conditional short-circuit current type 1, 480 Y/277 V Rated conditional short-circuit current, type 1, 480 Y/277 V Rated conditional short-circuit current, type 1, 480 Y/277 V Rated conditional short-circuit current, type 1, 480 Y/277 V Rated conditional short-circuit curre	Rated control supply voltage Us at DC	V	0 - 0
Rated operation power at AC-3, 400 V Rated power, 460 V, 60 Hz, 3-phase Rated power, 460 V, 60 Hz, 3-phase Rated power, 575 V, 60 Hz, 3-phase Rated power, 575 V, 60 Hz, 3-phase Rated operation current le Rated operation current at AC-3, 400 V Rated operation current at AC-3, 400 V Rated operation current setting Rated conditional short-circuit current, type 1, 480 Y/277 V Rated conditional short-circuit current, type 1, 600 Y/347 V Rated conditional short-circuit current, type 2, 230 V Rated conditional short-circuit current, type 2, 230 V Rated conditional short-circuit current, type 2, 400 V Rated conditional short-circuit current in type 2, 400 V Rated conditional short-circuit current in type 2, 400 V Rated conditional short-circuit current in type 2, 400 V Rated conditional short-circuit current in the properties of a summary contacts as normally closed contact Railen conditional short-circuit current in the properties of a summary contact in the properties of a summary contact in the properties of the properties	Voltage type for actuating		AC
Rated power, 460 V, 60 Hz, 3-phase Rated power, 575 V, 60 Hz, 3-phase Rated operation current le Rated operation current at AC-3, 400 V A Deveload release current setting A Deveload release current, type 1, 480 Y/277 V A Deveload release current, type 1, 480 Y/277 V A Deveload release current, type 1, 600 Y/347 V A Deveload release current, type 1, 600 Y/347 V A Deveload release current, type 2, 230 V A Deveload release current, type 2, 230 V A Deveload release current, type 2, 400 V A Deveload release current current, type 2, 400 V A Deveload release current current, type 2, 400 V A Deveload release current current, type 2, 400 V A Deveload release current current, type 2, 400 V A Deveload release current current, type 2, 400 V A Deveload release current current, type 2, 400 V A Deveload release current current, type 2, 400 V A Deveload release current current, type 2, 400 V A Deveload release current current, type 2, 400 V A Deveload release current current, type 1, 480 Y/277 V A Deveload release current current, type 1, 480 Y/277 V A Deveload release current current, type 1, 480 Y/277 V A Deveload release current current, type 1, 480 Y/277 V A Deveload release current current, type 1, 480 Y/277 V A Deveload release current current, type 1, 480 Y/277 V A Deveload release current current, type 1, 480 Y/277 V A Deveload release current current, type 1, 480 Y/277 V A Deveload release current current, type 1, 480 Y/277 V A Deveload release current current, type 1, 480 Y/277 V A Deveload release current current, type 1, 480 Y/277 V A Develo	Rated operation power at AC-3, 230 V, 3-phase	kW	0.04
Rated power, 575 V, 60 Hz, 3-phase Rated operation current le Rated operation current at AC-3, 400 V A 0.25  Overload release current setting A 0.16 - 0.25  Rated conditional short-circuit current, type 1, 480 V/277 V A 0  Rated conditional short-circuit current, type 1, 600 V/347 V A 0  Rated conditional short-circuit current, type 2, 230 V A 500000  Rated conditional short-circuit current, type 2, 400 V A 500000  Number of auxiliary contacts as normally open contact Number of auxiliary contacts as normally closed contact Ambient temperature, upper operating limit C C 60  Temperature compensated overload protection Release class Type of electrical connection of main circuit Type of electrical connection of main circuit Type of electrical connection for auxiliary- and control current circuit Rail mounting possible With transformer Number of command positions Suitable for emergency stop Coordination class according to IEC 60947-4-3 Number of indicator lights External reset possible Keternal reset possible  KW 0 16  A 0.25  A 0.16 - 0.25  A 0.06  0  0  0  C 60  Yes C 60  Yes C LASS 10  Screw connection Screw connection Screw connection O No O Coordination class according to IEC 60947-4-3 No No Coordination class according to IEC 60947-4-3 Number of indicator lights External reset possible	Rated operation power at AC-3, 400 V	kW	0.06
Rated operation current le         A         0.21           Rated operation current at AC-3, 400 V         A         0.25           Overload release current setting         A         0.16 - 0.25           Rated conditional short-circuit current, type 1, 480 Y/277 V         A         0           Rated conditional short-circuit current, type 1, 500 Y/347 V         A         0           Rated conditional short-circuit current, type 2, 230 V         A         500000           Rated conditional short-circuit current, type 2, 400 V         A         500000           Number of auxiliary contacts as normally open contact         1         1           Number of auxiliary contacts as normally closed contact         0         60           Temperature, upper operating limit         °C         60           Temperature compensated overload protection         Yes         CLASS 10           Release class         CLASS 10         Screw connection           Type of electrical connection of main circuit         Screw connection         Yes           With transformer         No         No           With transformer         No         No           Suitable for emergency stop         No         No           Cordination class according to IEC 60947-4-3         Class 2           Number o	Rated power, 460 V, 60 Hz, 3-phase	kW	0
Rated operation current at AC-3, 400 V Overload release current setting A 0.16 - 0.25  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 50000 Rated conditional short-circuit current, type 2, 400 V A 50000 Rated conditional short-circuit current, type 2, 400 V Rated conditional short-circuit current, type 2, 400 V Rated conditional short-circuit current, type 2, 400 V Rated conditional short-circuit current circuit current circuit current compensated overload protection Release class CLASS 10 Screw connection Type of electrical connection for auxiliary- and control current circuit Rail mounting possible Vith transformer No No Number of command positions Suitable for emergency stop Coordination class according to IEC 60947-4-3 Number of indicator lights External reset possible Fixernal reset possible Rail mounting resetting to IEC 60947-4-3 Number of indicator lights External reset possible	Rated power, 575 V, 60 Hz, 3-phase	kW	0
Overload release current setting 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 50000 Rated conditional short-circuit current, type 2, 400 V A 50000 Rated conditional short-circuit current, type 2, 400 V A 50000 Number of auxiliary contacts as normally open contact 1 1 Number of auxiliary contacts as normally closed contact 0 0 Ambient temperature, upper operating limit °C 600 Temperature compensated overload protection Yes Release class 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 Suitable for emergency stop No Coordination class according to IEC 60947-4-3 Number of indicator lights External reset possible No	Rated operation current le	Α	0.21
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 50000 Rated conditional short-circuit current, type 2, 230 V A 50000 Rated conditional short-circuit current, type 2, 400 V A 50000 Number of auxiliary contacts as normally open contact 1 1 Number of auxiliary contacts as normally closed contact 0 0 Ambient temperature, upper operating limit °C 600 Temperature compensated overload protection Yes Release class CLASS 10 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 0 Suitable for emergency stop No Coordination class according to IEC 60947-4-3 Number of indicator lights 0 0 External reset possible No	Rated operation current at AC-3, 400 V	Α	0.25
Rated conditional short-circuit current, type 1, 600 Y/347 V Rated conditional short-circuit current, type 2, 230 V Rated conditional short-circuit current, type 2, 400 V Rated conditional short-circuit current, type 2, 230 V Rated conditional short-circuit current, type 2, 230 V Rated conditional short-circuit type 2, 200 V Rated conditional short-circuit type 2, 400 V Rated conditional	Overload release current setting	Α	0.16 - 0.25
Rated conditional short-circuit current, type 2, 230 V  Rated conditional short-circuit current, type 2, 400 V  Number of auxiliary contacts as normally open contact  Number of auxiliary contacts as normally closed contact  Ambient temperature, upper operating limit  CC 60  Temperature compensated overload protection  Release class  Type of electrical connection of main circuit  Type of electrical connection for auxiliary- and control current circuit  Rail mounting possible  With transformer  No  Number of command positions  Suitable for emergency stop  Coordination class according to IEC 60947-4-3  Number of indicator lights  External reset possible  A 50000  A 50000  A 50000  CC 60  Yes  CLASS 10  Screw connection  Screw connection  Yes  No  Class 2  O  No	Rated conditional short-circuit current, type 1, 480 Y/277 V	Α	0
Rated conditional short-circuit current, type 2, 400 V  Number of auxiliary contacts as normally open contact  Number of auxiliary contacts as normally closed contact  Ambient temperature, upper operating limit  "C 60  Temperature compensated overload protection  Release class  Type of electrical connection of main circuit  Type of electrical connection for auxiliary- and control current circuit  Rail mounting possible  With transformer  With transformer  No  Number of command positions  Suitable for emergency stop  Coordination class according to IEC 60947-4-3  Number of indicator lights  External reset possible  No  Source connection  No  Class 2  No  External reset possible  No	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  Ambient temperature, upper operating limit  °C 60  Temperature compensated overload protection  Release class  Type of electrical connection of main circuit  Type of electrical connection for auxiliary- and control current circuit  Rail mounting possible  With transformer  With transformer  No  Number of command positions  Suitable for emergency stop  Coordination class according to IEC 60947-4-3  Number of indicator lights  External reset possible  1  1  0  Class 2  No  No  External reset possible  1  1  1  1  1  1  1  1  1  1  1  1  1	Rated conditional short-circuit current, type 2, 230 V	Α	50000
Number of auxiliary contacts as normally closed contact  Ambient temperature, upper operating limit  Perperature compensated overload protection  Release class  CLASS 10  Screw connection  Type of electrical connection of main circuit  Type of electrical connection for auxiliary- and control current circuit  Rail mounting possible  With transformer  No  Number of command positions  Suitable for emergency stop  Coordination class according to IEC 60947-4-3  Number of indicator lights  External reset possible  O  Coordination class according to IEC 60947-4-3  No  External reset possible  No	Rated conditional short-circuit current, type 2, 400 V	Α	50000
Ambient temperature, upper operating limit  Temperature compensated overload protection  Release class  CLASS 10  Screw connection  Type of electrical connection for auxiliary- and control current circuit  Rail mounting possible  With transformer  No  Number of command positions  Suitable for emergency stop  Coordination class according to IEC 60947-4-3  Number of indicator lights  External reset possible  O  60  Yes  Screw connection  Yes  No  No  Class 2  No  External reset possible  No	Number of auxiliary contacts as normally open contact		1
Temperature compensated overload protection  Release class  CLASS 10  Type of electrical connection of main circuit  Type of electrical connection for auxiliary- and control current circuit  Rail mounting possible  With transformer  No  Number of command positions  Suitable for emergency stop  Coordination class according to IEC 60947-4-3  Number of indicator lights  External reset possible  Yes  No  Class 2  No  No	Number of auxiliary contacts as normally closed contact		0
Release class Type of electrical connection of main circuit Screw connection Type of electrical connection for auxiliary- and control current circuit Screw connection  Rail mounting possible With transformer No Number of command positions Outlief or emergency stop No Coordination class according to IEC 60947-4-3 Number of indicator lights Outlief External reset possible Release CLASS 10 Screw connection No Class 2 Number of logical connection of main circuit Screw connection No Class 2 Number of indicator lights No	Ambient temperature, upper operating limit	°C	60
Type of electrical connection of main circuit  Type of electrical connection for auxiliary- and control current circuit  Rail mounting possible  With transformer  No  Number of command positions  Suitable for emergency stop  Coordination class according to IEC 60947-4-3  Number of indicator lights  External reset possible  Screw connection  Screw connection  Yes  No  Class 2  No  No  Class 2  No  No  External reset possible  No	Temperature compensated overload protection		Yes
Type of electrical connection for auxiliary- and control current circuit  Rail mounting possible  With transformer  No  Number of command positions  Suitable for emergency stop  Coordination class according to IEC 60947-4-3  Number of indicator lights  External reset possible  Screw connection  Yes  No  Coordination  Coordination  Class 2  Number of indicator lights  No	Release class		CLASS 10
Rail mounting possible  With transformer  No  Number of command positions  Output  Suitable for emergency stop  Coordination class according to IEC 60947-4-3  Number of indicator lights  External reset possible  Yes  No  Class 2  Number of command positions  Output  Class 2  Number of indicator lights  No	Type of electrical connection of main circuit		Screw connection
With transformer  No Number of command positions  Suitable for emergency stop  Coordination class according to IEC 60947-4-3  Number of indicator lights  Ctass 2  Number of indicator lights  No  External reset possible  No	Type of electrical connection for auxiliary- and control current circuit		Screw connection
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	Rail mounting possible		Yes
Suitable for emergency stop  Coordination class according to IEC 60947-4-3  Number of indicator lights  External reset possible  No	With transformer		No
Coordination class according to IEC 60947-4-3  Class 2  Number of indicator lights  0  External reset possible  No	Number of command positions		0
Number of indicator lights 0  External reset possible No	Suitable for emergency stop		No
External reset possible No	Coordination class according to IEC 60947-4-3		Class 2
·	Number of indicator lights		0
With fuse No	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
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	200
Depth	mm	154

# 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.	3211-04
North America Certification	UL listed, CSA certified
Specially designed for North America	No

## **Dimensions**



MSC-D-...-M7[...15]BBA...

## **Assets (links)**

**Declaration of CE Conformity** 

00002885

**Instruction Leaflets** 

IL034038ZU2018\_06