DATASHEET - MSC-R-10-M17(230V50HZ)/BBA



Reversing starter, 380 V 400 V 415 V: 3, 4 kW, Ir= 6.3 - 10 A, 230 V 50 Hz, 240 V 60 Hz, AC voltage



Powering Business Worldwide

MSC-R-10-M17(230V50HZ)/BBA Part no.

Catalog No. 102992

Alternate Catalog XTSR010B018CFNL-A

No.

EL-Nummer 4315453

(Norway)	4313433			
Delivery program				
Basic function				Reversing starters (complete devices)
Basic device				MSC
				IE3 ✓
lotes				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		Р	kW	3 4
Rated operational current				
AC-3				
380 V 400 V 415 V		l _e	A	6.6 8.5
Rated short-circuit current 380 - 415 V		I_q	kA	100
Setting range				
Setting range of overload releases		l _r	Α	6.3 - 10
Coordination				Type of coordination "1" Type of coordination "2"
Contact sequence				M 3 3 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
Actuating voltage				230 V 50 Hz, 240 V 60 Hz
				AC voltage

Motor-protective circuit-breakers PKZM0-10

Contactor DILM17-01(...)

DOL starter wiring set

Mechanical connection element and electrical electric contact module PKZM0-XM32DE + DILM32-XRL

Notes

The reversing starter (complete units) consists of a PKZM0 motor protective circuit breaker and two DILM contactors.

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.

Complete units with mechanical interlock, starters up to 12 A also feature electrical interlock.

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

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 \rightarrow DILM

→ 281199

Technical data

General			
Standards			UL 508 (on request) CSA C 22.2 No. 14 (on request)
Altitude		m	Max. 2000
Ambient temperature			-25 - +55
Main conducting paths			
Rated impulse withstand voltage	U_{imp}	V AC	6000
Overvoltage category/pollution degree			111/3
Rated operational voltage	U _e	V	230 - 415
Rated operational current			
Open, 3-pole: 50 – 60 Hz			
380 V 400 V	I _e	Α	10
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 $\mbox{U}_{\mbox{\scriptsize S}}$			
Dual-voltage coil 50 Hz	Sealing	W	2.1
Rating data for approved types			
Auxiliary contacts			
Pilot Duty			
AC operated			A600
DC operated			P300
General Use			
AC		V	600
AC		Α	15
DC		V	250
DC		Α	1

Design verification as per IEC/EN 61439

Design vernication as per icc/civ 01433			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	10
Heat dissipation per pole, current-dependent	P _{vid}	W	2.7
Equipment heat dissipation, current-dependent	P _{vid}	W	8.1
Static heat dissipation, non-current-dependent	P_{vs}	W	2.1
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 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

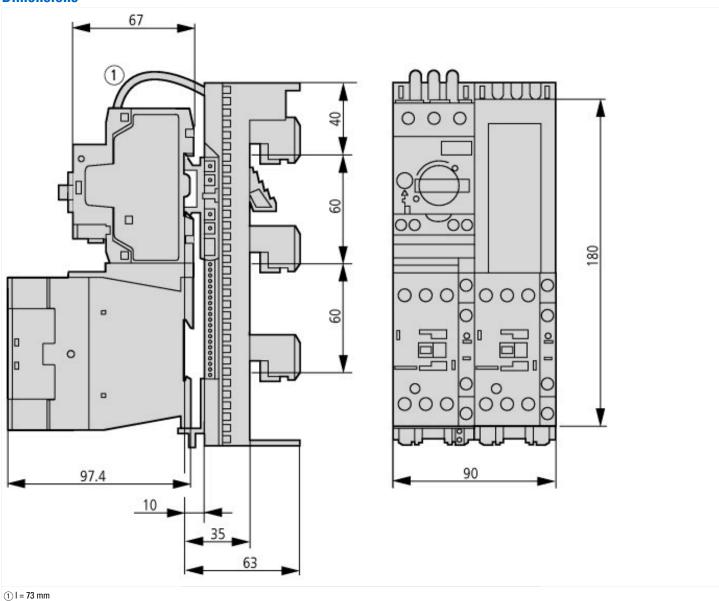
With short-circuit ralease Yes Related central supply-violage Us an AC 50HZ V 20 - 200 Related central supply-violage Us an AC 50HZ V 0 - 0 Violage type by-violage Us an AC 50HZ V 0 - 0 Violage type for exclusing AC AC Related operation power at AC -3, 20 V. 3 phase WW 4 Related operation power at AC -3, 400 V WW 4 Related power, 535 V. 60 Hz. 3 -phase WW 0 Related power, 535 V. 60 Hz. 3 -phase WW 0 Related power, 535 V. 60 Hz. 3 -phase WW 0 Related operation current at AC-3, 400 V A 8.5 Related operation current at AC-3, 400 V A 0 Overland relates current setting A 8.3 - 10 Related cenditional short-circuit current, yps 1, 400 V/277 V A 0 Related cenditional short-circuit current, yps 2, 200 V A 50000 Number of audiliary centrates as normally obsed contact B 0 Ambiert temperature. upper operating limit C C Type of electrical connection o	[AJZ718013])		
Rated control supply voltage Us at AC 50HZ	Kind of motor starter		Reversing starter
Rated control supply voltage Us at AC BOHZ V 0 - 0 Rated control supply voltage Us at DC V 0 - 0 Voltage type for actuating KW 2 Rated operation power at AC-3, 200 V.3-phase KW 2 Rated operation power at AC-3, 400 V KW 0 Rated powers, 575 V.6 DH, 2-3-phase KW 0 Rated operation current at AC-3, 400 V A 8.5 Rated conditional current tar AC-3, 400 V A 8.3 10 Rated conditional short-circuit current, type 1, 480 V.377 V A 6.3 10 Rated conditional short-circuit current, type 1, 480 V.387 V A 50000 Rated conditional short-circuit current, type 2, 280 V A 50000 Rated conditional short-circuit current, type 2, 480 V A 50000 Number of auxiliary contacts as anomally closed contact C 6 Number of auxiliary contacts as nomally closed contact C 6 Number of activities connection for auxiliary- and control current circuit C 6 Vipp of electrical connection for auxiliary- and control current circuit C 6 Vipp	With short-circuit release		Yes
Rated control supply voltage Us at DC V 0 - 0 Voltage Uppe for ectualing AC Rated operation power at AC-3, 200 V, 3-phase W 2 Rated operation power at AC-3, 200 V, 3-phase W 4 Rated power, 578 V, 60 Hz, 3-phase W 0 Rated operation current Ir A 8.5 Rated operation current AC-3, 400 V A 10 Overload elease current setting A 6.3 10 Rated conditional short-circuit current, type 1, 480 V/277 V A 0 Rated conditional short-circuit current, type 2, 200 V A 50000 Rated conditional short-circuit current, type 1, 480 V/277 V A 0 Rated conditional short-circuit current, type 2, 200 V A 50000 Rated conditional short-circuit current, type 1, 480 V/277 V A 0 Rated conditional short-circuit current, type 2, 200 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 Rated conditional short-circuit current, type 2, 400 V A	Rated control supply voltage Us at AC 50HZ	V	230 - 230
Voltage type for actuating AC Rated operation power at AC-3, 200 V.3-phase kW 2 Rated operation power at AC-3, 400 V kW 0 Rated power, 657 V, 69 Hr.3-phase kW 0 Rated operation current le action power at AC-3, 400 V A 15 Rated operation current le AC-3, 400 V A 10 Overlead release current setting A 6 Rated conditional short-circuit current, type 1, 460 V/277 V A 0 Rated conditional short-circuit current, type 1, 500 V/347 V A 5000 Rated conditional short-circuit current, type 1, 200 V/347 V A 5000 Rated conditional short-circuit current, type 2, 500 V/347 V A 5000 Rated conditional short-circuit current, type 2, 400 V A 5000 Number of auxiliary contacts as normally closed contact C 60 Ambies themperature, upper operating limit °C 60 Release class C 62 Release class C 62 Release class action of main circuit C 62 Yes of electrical connectio	Rated control supply voltage Us at AC 60HZ	V	0 - 0
Rated operation power at AC-3, 20 V, 3-phase IW 2 Rated power at AC-3, 400 V IW 4 Rated power, 400 V, 60 Hz, 3-phase IW 0 Rated operation current of A 3.5 Rated operation current at AC-3, 400 V A 10 Overload release current setting A 6.3 - 10 Rated conditional short-circuit current, type 1, 400 V/277 V A 0 Rated conditional short-circuit current, type 2, 200 V A 50000 Rated conditional short-circuit current, type 2, 200 V A 50000 Rated conditional short-circuit current, type 2, 200 V A 50000 Rated conditional short-circuit current, type 2, 200 V A 50000 Rated conditional short-circuit current, type 2, 200 V A 50000 Rated conditional short-circuit current, type 2, 200 V A 50000 Rated conditional short-circuit current, type 2, 200 V A 50000 Rated conditional short-circuit current, type 2, 200 V A 50000 Rated conditional short-circuit current, type 2, 200 V A 50000 Rated conditional short-circ	Rated control supply voltage Us at DC	V	0 - 0
Rated operation power at AC-3, 400 V kW 0 Rated operation power, 460 V, 50 Hz, 3-phase kW 0 Rated power, 575 V, 60 Hz, 3-phase kW 0 Rated operation current te A 8.5 Rated operation current at AC-3, 400 V A 10 Overload release current setting A 6.3 - 10 Rated conditional short-circuit current, type 1, 480 Y/277 V A 0 Rated conditional short-circuit current, type 2, 100 V (347 V) A 50000 Rated conditional short-circuit current, type 2, 200 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 abuxiliary contacts as normally open contact V 0 Ambient temperature, upper operating limit ***C 60 Temperature compensated overload protection ***C CLASS 10 Release class CLASS 10 CLASS 10 Type of electrical connection for suciliary- and control current circuit ***C No Reliance for command positions	Voltage type for actuating		AC
Rated power, 460 V, 60 Hz, 3-phase IW 0 Rated powers, 575 V, 60 Hz, 3-phase WW 0 Rated operation current Ie A 8.5 Rated operation current at AC-3, 400 V A 10 Overload release current setting A 5.10 Rated conditional short-circuit current, type 1, 480 V/277 V A 0 Rated conditional short-circuit current, type 1, 220 V A 50000 Rated conditional short-circuit current, type 2, 240 V A 50000 Rated conditional short-circuit current, type 2, 400 V A 50000 Number of auxiliary contacts as normally closed contact 0 0 Number of auxiliary contacts as normally closed contact CLASS 10 0 Temperature compensated overload protection Yes Screw connection Type of electrical connection of main circuit Yes Screw connection Type of electrical connection for auxiliary- and control current circuit Yes Yes With transformer Yes CLASS 10 Yes Number of indicator lights Yes Yes Yes Subt	Rated operation power at AC-3, 230 V, 3-phase	kW	2.2
Rated power, 575 V, 80 Hz, 3-phase kW 0 Rated operation current te AC-3, 400 V A 8.5 Rated operation current at AC-3, 400 V A 10 Overload release current setting A 6.3 · 10 Rated conditional short-circuit current, type 1, 480 Y/277 V A 0 Rated conditional short-circuit current, type 1, 800 Y/347 V A 50000 Rated conditional short-circuit current, type 2, 400 V A 50000 Number of auxiliary contacts as normally open contact 0 0 Number of auxiliary contacts as normally closed contact 0 0 Ambient temperature, upper operating limit °C 80 Temperature compensated overload protection CLASS 10 Ves Release class CLASS 10 CLASS 10 Type of electrical connection of main circuit Screw connection Screw connection Yes Screw connection Screw connection With transformer No No Number of indicator lights Class 2 No Coordination class according to IEC 80947-4-3 No No <td>Rated operation power at AC-3, 400 V</td> <td>kW</td> <td>4</td>	Rated operation power at AC-3, 400 V	kW	4
Rated operation current te A 8.5 Rated operation current and AC-3,400 V A 10 Overhoad release current setting A 6.3 - 10 Rated conditional short-circuit current, type 1,480 Y/277 V A 0 Rated conditional short-circuit current, type 2,200 V A 500000 Rated conditional short-circuit current, type 2,400 V A 50000 Number of auxiliary contacts as normally open contact 0 0 Number of auxiliary contacts as normally closed contact VS 60 Number of auxiliary contacts as normally closed contact VS 60 Release class VS CLASS 10 Temperature compensated overload protection YS Screw connection Type of electrical connection of main circuit Screw connection Screw connection With transformer No No Number of command positions No Class 2 With transformer No No Number of indicator lights Class 2 No External reset possible No No With fuse	Rated power, 460 V, 60 Hz, 3-phase	kW	0
Rated operation current at AC-3, 400 V A 10 Overload release current setting A 6.3 - 10 Rated conditional short-circuit current, type 1, 480 Y,277 V A 0 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 50000 Number of auxiliary contacts as normally closed contact C 60 Number of auxiliary contacts as normally closed contact CLAS SIO CLASS 10 Temperature compensated overload protection CLASS 10 CLASS 10 Temperature compensated overload protection CLASS 10 Screw connection Type of electrical connection of main circuit Yes Screw connection With transformer No No Number of command positions No No Suitable for emergency stop Class 2 Class 2 Number of indicator lights No Class 2 External reset possible No No With fuse No No	Rated power, 575 V, 60 Hz, 3-phase	kW	0
Overfoad release current setting A 6.3 - 10 Rated conditional short-circuit current, type 1, 480 Y/277 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 B 0 Number of auxiliary contacts as normally closed contact B 0 Ambient 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 Yes Screw connection Rail mounting possible Yes Screw connection With transformer No No Number of command positions Yes Class 2 Suitable for emergency stop Coordination class according to IEC 60947-4-3 No Class 2 Number of indicator lights Po No No External reset possible No No No With tuse <	Rated operation current le	Α	8.5
Rated conditional short-circuit current, type 1, 480 Y/277 V A 0 Rated conditional short-circuit current, type 2, 230 V A 500000 Rated conditional short-circuit current, type 2, 230 V A 500000 Rated conditional short-circuit current, type 2, 2400 V A 500000 Number of auxiliary contacts as normally closed contact 0 0 Number of suxiliary contacts as normally closed contact Ve 60 Tamperature compensated overload protection Yes CLASS 10 Tengerature compensated overload protection Yes Screw connection Type of electrical connection of main circuit Yes Screw connection Type of electrical connection for auxiliary- and control current circuit Yes Yes With transformer No No With transformer No No Number of command positions O Class 2 Suitable for emergency stop Class 2 Class 2 Coordination class according to IEC 60947-4-3 No No Number of indicator lights No No External reset possible <td< td=""><td>Rated operation current at AC-3, 400 V</td><td>Α</td><td>10</td></td<>	Rated operation current at AC-3, 400 V	Α	10
Rated conditional short-circuit current, type 2, 230 V A 500000 Rated conditional short-circuit current, type 2, 240 V A 500000 Number of auxiliary contacts as normally open contact 0 0 Number of auxiliary contacts as normally closed contact °C 60 Ambient temperature, upper operating limit °C 60 Temperature compensated overload protection Yes CLASS 10 Type of electrical connection of main circuit Screw connection Screw connection Type of electrical connection for auxiliary- and control current circuit Yes No Rall mounting possible Yes No With transformer No No Number of command positions No Class 2 Number of indicator lights O Class 2 External reset possible No No With fuse No No Degree of protection (IP) No No Supporting protocol for TCP/IP No No Supporting protocol for PROFIBUS No No Supporting protocol for CAN	Overload release current setting	Α	6.3 - 10
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, 400 V Rumber of auxiliary contacts as normally open contact Rumber of auxiliary contacts as normally closed contact Rumber of compensated overload protection Rumber of control current circuit Rumber of control current circuit Rumber of command position of auxiliary- and control current circuit Rumber of command positions Rumber of command positions Rumber of command positions Rumber of indicator lights Rumber	Rated conditional short-circuit current, type 1, 480 Y/277 V	Α	0
Rated conditional short-circuit current, type 2, 400 V A 50000 Number of auxiliary contacts as normally open contact 0 Ambient temperature, upper operating limit °C 60 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 Yes Rail mounting possible Yes With transformer No Number of command positions O Suitable for emergency stop Class 2 Coordination class according to IEC 60947-4-3 Class 2 Number of indicator lights No External reset possible No With fuse No Degree of protection (IP) Inpo Degree of protection (IP) Vice Supporting protocol for TCP/IP No Supporting protocol for PROFIBUS No Supporting protocol for CAN No Supporting protocol for CAN No	Rated conditional short-circuit current, type 1, 600 Y/347 V	Α	0
Number of auxiliary contacts as normally closed contact 0 Number of auxiliary contacts as normally closed contact °C 60 Ambient temperature, upper operating limit °C 60 Temperature compensated overload protection Ves Release class CLASS 10 Type of electrical connection of main circuit Screw connection Type of electrical connection for auxiliary- and control current circuit Yes Rail mounting possible Yes With transformer No Number of command positions Yes Suitable for emergency stop No Coordination class according to IEC 60947-4-3 Screw connection Number of indicator lights O External reset possible No With fuse No Degree of protection (IP) No Degree of protection (IP) Pi00 Degree of protection (NEMA) Yes Supporting protocol for PROFIBUS No Supporting protocol for PROFIBUS No Supporting protocol for CAN No Supporting protocol for INTERBUS No	Rated conditional short-circuit current, type 2, 230 V	Α	50000
Number of auxiliary contacts as normally closed contact "C 60 Ambient temperature, upper operating limit "C 60 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 Yes Rail mounting possible Yes With transformer No Number of command positions Yes Suitable for emergency stop No Coordination class according to IEC 60947-4-3 No Number of indicator lights Yes External reset possible No With fuse No Degree of protection (IP) No Degree of protection (NEMA) No Supporting protocol for TCP/IP No Supporting protocol for PROFIBUS No Supporting protocol for CRN No Supporting protocol for CAN No Supporting protocol for CAN No Supporting protocol for CAN No Supporting protoc	Rated conditional short-circuit current, type 2, 400 V	Α	50000
Ambient temperature, upper operating limit °C 60 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 O Suitable for emergency stop No Coordination class according to IEC 60947-4-3 Class 2 Number of indicator lights No External reset possible No With fuse No Degree of protection (IP) IP00 Degree of protection (NEMA) Other Supporting protocol for TCP/IP No Supporting protocol for PROFIBUS No Supporting protocol for CAN No Supporting protocol for CAN No Supporting protocol for CAN No	Number of auxiliary contacts as normally open contact		0
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 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 With fuse Degree of protection (IP) Degree of protection (NEMA) Supporting protocol for TCP/IP Supporting protocol for PROFIBUS Supporting protocol for CAN Supporting protocol for CAN Supporting protocol for INTERBUS Supporting pr	Number of auxiliary contacts as normally closed contact		0
Release class 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 With fuse Degree of protection (IP) Degree of protection (NEMA) Supporting protocol for TCP/IP Supporting protocol for TCP/IBUS Supporting protocol for PROFIBUS Supporting protocol for CAN Supporting protocol for CAN Supporting protocol for LITERBUS Supporting protocol for INTERBUS Supporting protoco	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 With fuse Degree of protection (IP) Degree of protection (NEMA) Supporting protocol for TCP/IP Supporting protocol for TCP/IP Supporting protocol for PROFIBUS Supporting protocol for CAN Supporting protocol for INTERBUS Screw connection Yes Screw connection Yes Screw connection Yes Screw connection Yes Yes No 0 0 0 0 0 0 0 0 0 0 0 0	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 With fuse Degree of protection (IP) Degree of protection (NEMA) Supporting protocol for TCP/IP Supporting protocol for TCP/IP Supporting protocol for TCP/IP Supporting protocol for CAN Supporting protocol for CAN Supporting protocol for INTERBUS Supporting protocol for INTERBUS	Release class		CLASS 10
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 With fuse Degree of protection (IP) Degree of protection (NEMA) Supporting protocol for TCP/IP Supporting protocol for PROFIBUS Supporting protocol for CAN Supporting protocol for INTERBUS Wes No Va Va Va Va Va Va Va Va Va V	Type of electrical connection of main circuit		Screw connection
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 With fuse No Degree of protection (IP) Degree of protection (NEMA) Supporting protocol for TCP/IP Supporting protocol for PR0FIBUS Supporting protocol for CAN Supporting protocol for CAN Supporting protocol for INTERBUS No No No No No No No No No N	Type of electrical connection for auxiliary- and control current circuit		Screw connection
Number of command positions Suitable for emergency stop Coordination class according to IEC 60947-4-3 Number of indicator lights External reset possible With fuse Degree of protection (IP) Degree of protection (NEMA) Supporting protocol for TCP/IP Supporting protocol for CAN Supporting protocol for CAN Supporting protocol for INTERBUS O No Class 2 No No No No No Supporting protocol for INTERBUS No No No No No No No No No N	Rail mounting possible		Yes
Suitable for emergency stop Coordination class according to IEC 60947-4-3 Number of indicator lights Cuss 2 Number of indicator lights Cuss 2 Number of indicator lights Cuss 2 Number of indicator lights No With fuse No With fuse No Degree of protection (IP) Degree of protection (NEMA) Cupporting protocol for TCP/IP No Supporting protocol for PROFIBUS No Supporting protocol for CAN Supporting protocol for INTERBUS No No Supporting protocol for INTERBUS	With transformer		No
Coordination class according to IEC 60947-4-3 Number of indicator lights External reset possible No With fuse No Degree of protection (IP) Degree of protection (NEMA) Supporting protocol for TCP/IP Supporting protocol for PROFIBUS Supporting protocol for CAN Supporting protocol for CAN Supporting protocol for INTERBUS No No	Number of command positions		0
Number of indicator lights External reset possible With fuse Degree of protection (IP) Degree of protection (NEMA) Supporting protocol for TCP/IP Supporting protocol for PR0FIBUS Supporting protocol for CAN Supporting protocol for INTERBUS No No No No No No No No No N	Suitable for emergency stop		No
External reset possible No With fuse No Degree of protection (IP) Degree of protection (NEMA) Supporting protocol for TCP/IP Supporting protocol for PR0FIBUS Supporting protocol for CAN Supporting protocol for INTERBUS No Supporting protocol for INTERBUS No	Coordination class according to IEC 60947-4-3		Class 2
With fuse No Degree of protection (IP) IP00 Degree of protection (NEMA) Other Supporting protocol for PROFIBUS No Supporting protocol for CAN No Supporting protocol for INTERBUS No	Number of indicator lights		0
Degree of protection (IP) Degree of protection (NEMA) Supporting protocol for TCP/IP Supporting protocol for PR0FIBUS Supporting protocol for CAN Supporting protocol for INTERBUS No Supporting protocol for INTERBUS	External reset possible		No
Degree of protection (NEMA) Supporting protocol for TCP/IP No Supporting protocol for PR0FIBUS No Supporting protocol for CAN Supporting protocol for INTERBUS No No	With fuse		No
Supporting protocol for TCP/IP Supporting protocol for PR0FIBUS No Supporting protocol for CAN Supporting protocol for INTERBUS No	Degree of protection (IP)		IP00
Supporting protocol for PROFIBUS Supporting protocol for CAN Supporting protocol for INTERBUS No No	Degree of protection (NEMA)		Other
Supporting protocol for CAN Supporting protocol for INTERBUS No	Supporting protocol for TCP/IP		No
Supporting protocol for INTERBUS No	Supporting protocol for PROFIBUS		No
	Supporting protocol for CAN		No
Connection protected for ACI	Supporting protocol for INTERBUS		No
Supporting protector for ASI	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	90
Height	mm	200
Depth	mm	156

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-R-...-M17[...32]BBA...

Assets (links)

Declaration of CE Conformity

00003118

Instruction Leaflets

IL03402006Z2018_04

Additional product information (links)

<u>-</u>				
IL03402006Z (AWA1210-2248) Reversing starter to 12 A				
IL03402006Z (AWA1210-2248) Reversing starter ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03402006Z2018_04.pdf to 12 A				
IL03402015Z (AWA1210-2324) Busbar adapter				
IL03402015Z (AWA1210-2324) Busbar adapter	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03402015Z2018_05.pdf			
Motor starters and "Special Purpose Ratings" for the North American market	http://www.eaton.eu/ecm/groups/public/@pub/@europe/@electrical/documents/content/pct_3258146.pdf			
Busbar Component Adapters for modern Industrial control panels	http://www.moeller.net/binary/ver_techpapers/ver960en.pdf			