DATASHEET - MSC-D-12-M12(230V50HZ)/BBA



DOL starter, 380 V 400 V 415 V: 5.5 kW, Ir= 8 - 12 A, 230 V 50 Hz, 240 V 60 Hz, AC voltage



Part no.
Catalog No.
Alternate Ca
No.
EL-Nummer
(Norway)
· • •

MSC-D-12-M12(230V50HZ)/BBA 102957 XTSC012B012BFNL-A atalog

4315418

Delivery program

Basic function DOL starters (complete devices) MSC Basic device Also suitable for motors with efficiency class IE3. Notes 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 5.5 Rated operational current AC-3 380 V 400 V 415 V le А 11.3 Rated short-circuit current 380 - 415 V ١q kΑ 100 **Setting range** Setting range of overload releases l_r А 8 - 12 Type of coordination "1" Coordination Contact sequence Μ 230 V 50 Hz, 240 V 60 Hz Actuating voltage AC voltage Motor-protective circuit-breakers PKZM0-12 Contactor DILM12-10(...) DOL starter wiring set

Mechanical connection element and electrical electric contact module PKZM0-XDM12

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.

Page	
→ PKZM0	
→ 072896	
→ DILM	
→ 281199	
	$ \xrightarrow{\rightarrow} PKZM0 \rightarrow 072896 \rightarrow DILM $

Technical data

Altitude Max. 2000 Anbient temperature 25 - 455 Vain conducting paths Jump VAC Rated impulse withstand voltage Ump VAC Overvoltage category/pollution degree Ump VAC Rated operational voltage Ump VAC Open, 3-pole: 50 - 60 Hz Jump VAC 380 V 400 V Imp Ambient technical data Additional technical data Imp VAC Additional technical data Imp KZM0 motor-protective circuit-breakers, see motor-protective circuit-breakers, see contactors, electronic timing relays product group DILM contactors Power consumption of the coil in a cold state and 1.0 x US KZM0 wo Imp Poul-voltage coil 50 Hz Sealing W 1.2	General			
Ambint tamper ature Ambin tamper	Standards			UL 508 (on request) CSA C 22.2 No. 14 (on request)
Name Name <th< td=""><td>Altitude</td><td></td><td>m</td><td>Max. 2000</td></th<>	Altitude		m	Max. 2000
Rated impulse within and voltage Ump VAC 6000 Overvoltage category/pollution degree III/3 III/3 Rated operational voltage Ue Ve 20 - 415 Rated operational current Imp Imp Imp Imp gab V 400 V Imp Imp Imp Imp Imp 380 V 400 V Imp	Ambient temperature			-25 - +55
Avevolage category/pollution degree الال الال Aked operational current Ve 30 - 415 Jopen, 3-pole: 50 - 60 Hz	Main conducting paths			
And operational voltage Percent Side Sector Si	Rated impulse withstand voltage	U _{imp}	V AC	6000
Rated operational current Image: Constraint of the const	Overvoltage category/pollution degree			111/3
No. No. <td>Rated operational voltage</td> <td>U_e</td> <td>V</td> <td>230 - 415</td>	Rated operational voltage	U _e	V	230 - 415
380 V400 V Ie A I Additional technical data	Rated operational current			
Additional technical data Additional technic	Open, 3-pole: 50 – 60 Hz			
Moder protective circuit breaker PKZM0, PKE FKZM0, PKE Moder protective circuit breaker, see motor-protective circuit-breakers, see motor-protectiters, see motor-proteciters, see motor-protective circuit-breaker	380 V 400 V	Ι _e	А	12
Power consumption of the coil in a cold state and 1.0 x Ug Model Model Model Power consumption of the coil in a cold state and 1.0 x Ug Model Model Model Dual-voltage coil 50 Hz Sealing Wo 1.2 Rating data for approved types Model Model Model Akliary contacts Model Model Model Pilot Duty Model Model Model A Coperated Model Model Model General Use Model Model Model A C Agent A Coperated Model Model Model A C A Coperated Model Model Model Model A C A C A Coperated Model Model Model Model A C A C A C A C A C A C A C	Additional technical data			
Power consumption of the coil in a cold state and 1.0 × Ug Note	Motor protective circuit breaker PKZM0, PKE			PKZM0 product group DILM contactors, see contactor product group
Dual-voltage coil 50 Hz Sealing W 1.2 Rating data for approved types Sealing W 1.2 Auxiliary contacts I I I Pilot Duty I I I I AC operated I I I I I I General Use I	DILM contactors			
Rating data for approved types Auxiliary contacts Image: Contact Sector Secto	Power consumption of the coil in a cold state and 1.0 x U_S			
Auxiliary contacts Image: Sector Se	Dual-voltage coil 50 Hz	Sealing	W	1.2
Pilot Duty Pilot Duty AC operated Model DC operated Model General Use Model AC Model AC Model DC operated V BOD N DC operated V BOD N DC N DC V BOD V DC V	Rating data for approved types			
AC operated A600 DC operated P300 General Use V 600 AC V 600 AC AC V 600 DC V 50	Auxiliary contacts			
DC operated P300 General Use P00 AC V AC V AC AC DC V DC V DC V	Pilot Duty			
General Use V 60 AC AC AC DC V 50	AC operated			A600
ACV600ACA15DCV250	DC operated			P300
ACA15DCV250	General Use			
DC V 250	AC		V	600
	AC		А	15
DC A 1	DC		V	250
	DC		А	1

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	12
Heat dissipation per pole, current-dependent	P _{vid}	W	3.1
Equipment heat dissipation, current-dependent	P _{vid}	W	9.3
Static heat dissipation, non-current-dependent	P _{vs}	W	1.4
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

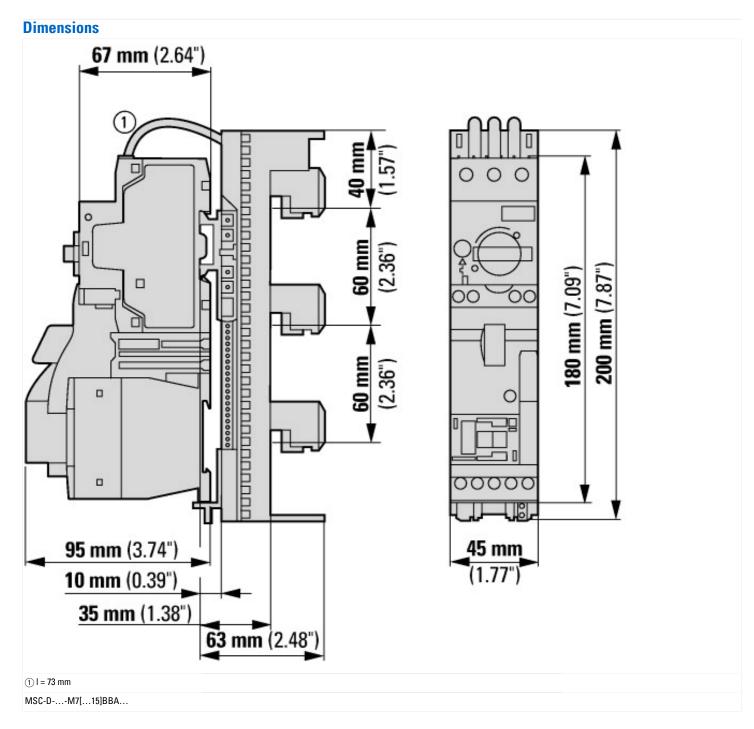
Low-voltage industrial components (EG000017) / Motor starter/Motor starter combination (EC001037)

(AZTB03)Kaid of notor starterImage: Sector starterKind of notor starterImage: Sector starterMith short-circuic rilesaImage: Sector starterRated control supply voltage Us at AC 50HZImage: Sector starterRated control supply voltage Us at AC 50HZImage: Sector starterRated control supply voltage Us at AC 50HZImage: Sector starterRated control supply voltage Us at AC 50HZImage: Sector starterRated control supply voltage Us at AC 50HZImage: Sector starterRated operation power at AC-3, 20U X 3 phaseImage: Sector starterRated operation power at AC-3, 40U VImage: Sector starterRated operation power at AC-3, 40U VImage: Sector starterRated operation current to P1, 40U Y/27 VImage: Sector starterRated operation stort-circuic current, type 1, 40U Y/27 VImage: Sector starterRated conditional short-circuic current, type 1, 40U Y/27 VImage: Sector starterRated conditional short-circuic current, type 1, 40U Y/27 VImage: Sector starterRated conditional short-circuic current, type 1, 40U Y/27 VImage: Sector starterRated conditional short-circuic current, type 2, 20U YImage: Sector starterNumber of acalitary contacts as normally open carterImage: Sector starterRate conditional short-circuic current, type 2, 20U YImage: Sector starterRate conditional short-circuic current, type 2, 20U YImage: Sector starterNumber of acalitary contacts as normally open carterImage: Sector starterRate conditional short-circuic current, type 2, 20U YIm	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-incuit rulesse Mathematical supply voltage Us at AC SQHZ V Sign 20 30 300 Rated control supply voltage Us at AC SQHZ V 0 <td>[AJZ718013])</td> <td colspan="4"></td>	[AJZ718013])				
Rated control supply voltage Us at AC 50HZ V 0 Bated control supply voltage Us at AC 60HZ V 0 Rated control supply voltage Us at AC 60HZ V 0 Rated control supply voltage Us at AC 50HZ V 0 Rated operiors power at AC 32 0V 3-phase K Ret operiors power at AC 32 0V 3-phase Rated operiors power at AC 32 0V 3-phase KW 5 Rated operiors power at AC 32 0V 3-phase KW 0 Rated operiors power at AC 32 0V 3-phase KW 0 Rated operiors power at AC 3400 V KW 0 Rated operiors current 1 AC 3-400 V A 12 Rated operiors current setting A 8 12 Rated conditional short-circuit current, hype 1, 460 V/277 V A 0 0 Rated conditional short-circuit current, hype 1, 400 V/277 V A 0 0 Rated conditional short-circuit current, hype 1, 400 V/277 V A 0 0 Rated conditional short-circuit current, hype 1, 400 V/277 V A 0 0 Rated conditional short-circuit current, hype 1, 400 V/277 V A 0 0 Rated conditional short-circuit current, hype 1, 400 V/277 V A 0 0 Rated conditional short-circuit current, hype 1, 400 V/277 V A 0 </td <td>Kind of motor starter</td> <td></td> <td></td> <td>Direct starter</td>	Kind of motor starter			Direct starter	
Rated control supply voltage Us at AC 60HZ 0 Rated control supply voltage Us at DC 0 Rated control supply voltage Us at DC C Rated control supply voltage Us at DC C Rated control supply voltage Us at DC C Rated power at AC-3, 200 V.3 phase VM Rated power at AC-3, 400 V VM Rated conditional short-circuit current. type 1, 480 V/277 V A Rated conditional short-circuit current. type 1, 480 V/277 V A Rated conditional short-circuit current. type 2, 300 V A Rated conditional short-circuit current. type 2, 400 V A Number of auxiliary contacts an ormally closed contact M Rated conditional short-circuit current. type 2, 400 V A Rated conditional short-circuit current. type 2, 400 V YM Rate conditional short-circuit current. type 2, 400 V YM	With short-circuit release			Yes	
Rated control supply voltage Us at DC V 0 Voltage type for actuating AC Rated operation power at AC-3, 200 V 3-blaso W 3 Rated operation power at AC-3, 400 V S S Rated operation power at AC-3, 400 V W 5 Rated operation curvent 4AC-3, 400 V W 0 Rated operation curvent 1 M 13 Rated operation curvent 1 M 13 Rated operation curvent 4AC-3, 400 V M 8 Overload release curvent setting M 13 Rated operation curvent 4AC-3, 400 V/37 V/A M 14 Rated conditional short-circuit current, type 1, 400 V/37 V/A M 0 Rated conditional short-circuit current, type 2, 200 V M 0 Rated conditional short-circuit current, type 3, 400 V/37 V M 0 Rated conditional short-circuit current, type 3, 400 V/37 V/A M 0 Rated conditional short-circuit current, type 3, 400 V/37 V/A M 0 Rated conditional short-circuit current, type 3, 400 V/37 V/A M 0 Rated conditional short-circuit current, type 3, 400 V/37 V/A M 0	Rated control supply voltage Us at AC 50HZ		V	230 - 230	
Notage year of a cutating A Notage year of a cutating K S Rated operation power at AC-3, 400 V K S Rated operation power at AC-3, 400 V K S Rated operation power at AC-3, 400 V K S Rated operation current le A N Rated operation current at AC-3, 400 V A I Nated operation current at AC-3, 400 V A I Nated operation current at AC-3, 400 V A I Nated operation current at AC-3, 400 V A I Nated operation current at AC-3, 400 V A I Nated operation current type 1, 480 V/277 V A I Rated conditional short-circuit current, type 1, 480 V/277 V A I Rated conditional short-circuit current, type 2, 400 V A I Rated conditional short-circuit current, type 2, 400 V A I Number of auxiliary contacts an onmally coles contact A I Number of auxiliary contacts an onmally coles contact C IS IS Nuber of auxiliary contactis an onmally coles contact </td <td>Rated control supply voltage Us at AC 60HZ</td> <td></td> <td>V</td> <td>0 - 0</td>	Rated control supply voltage Us at AC 60HZ		V	0 - 0	
Rated operation power at AC-3, 200 V, 3-phase IM N S Rated operation power at AC-3, 400 V IM S S Rated power, 757 V, 60 Hz, 3-phase IM O S S Rated power, 757 V, 60 Hz, 3-phase IM S	Rated control supply voltage Us at DC		V	0 - 0	
Rete operation power at AC-3, 400 V K S Rete operation current at AC-3, 400 V V 0 Rated operation current le V 0 Rated operation current 16 V 13 Reted operation current 40-3, 400 V V 0 Nondo current 40-3, 400 V V 0 Reted operation current type 1, 400 V/37V V V 0 Reted conditional short-circuit current, type 2, 230 V V 0 Number of auxiliary contacts as normally open contact V 0 Number of auxiliary contacts as normally open contact V 0 Reter operation current type 1, 230 V V 0 Reter operation current type 1, 400 V V 0 Reter operation current type 1, 400 V V 0 Reter operation current type 1, 400 V V V <	Voltage type for actuating			AC	
Rated power, 80 V, 60 Hz, 3-phase M N Rated power, 57 V, 60 Hz, 3-phase KW 0 Rated operation current le A 1.3 Rated operation current at AC-3, 400 V A 8 Doerbad release current setting A 8 Rated conditional short-circuit current, type 1,480 V/277 V C A Rated conditional short-circuit current, type 1,480 V/277 V C A Rated conditional short-circuit current, type 2,230 V C A Number of auxiliary contacts as normally open contact M 0 Number of auxiliary contacts an ormally open contact M 0 Release class M G C Release class M M C Type of electrical connection of main circuit M M Screw connection Release class M M Screw connection <td>Rated operation power at AC-3, 230 V, 3-phase</td> <td></td> <td>kW</td> <td>3</td>	Rated operation power at AC-3, 230 V, 3-phase		kW	3	
Reted power, 575 V, 60 Hz, 3-phase Image: space sp	Rated operation power at AC-3, 400 V		kW	5.5	
Reted operation current I Image: A ima	Rated power, 460 V, 60 Hz, 3-phase		kW	0	
Reted operation current at AC-3, 400 V A A Overload release current stiting A B Reted conditional short-circuit current, type 1, 400 V277 V A O Reted conditional short-circuit current, type 1, 600 V347 V A O Reted conditional short-circuit current, type 2, 200 V A O Number of auxiliary contacts as normally copen contact A O Number of auxiliary contacts as normally closed contact A O Number of auxiliary contacts as normally closed contact C O Release class C Scient connection Rup of electrical connection of main circuit C Scient connection Ype of electrical connection frain circuit F Scient connection Number of command positions Scient connection Scient connection Number of command positions Scient connection Scient connection Suitable for emergency stop G Scient connection Suitable for emergency stop Scient connection Scient connection Suitable for emergency stop Scient connection Scient connection Suitable for emergency stop Scient connection Sci	Rated power, 575 V, 60 Hz, 3-phase		kW	0	
Overload release current settingA A8 -12Rated conditional short-circuit current, type 1,600 //347 VA0Rated conditional short-circuit current, type 2,200 VA0Rated conditional short-circuit current, type 2,200 VA0Number of auxiliary contacts as normally closed contactM0Number of auxiliary contacts as normally closed contactMMNumber of auxiliary contaction of main circuitMMNumber of connection of main circuitMMNumber of connection of main circuitMMNumber of connand positionsMMSuitable for emergency stopMMCordination class according to IEC 600947-43MMNumber of indicator lightsMMNumber of indicator lightsMMSuitable for emergency stopMMCordination class according to IEC 600947-43MNumber of indicator lightsMMSuitable for emergency stopMCordination class according to IEC 600947-43MNumber of indicator lightsMSuitable for emergency stopMCordination	Rated operation current le		А	11.3	
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, 200 V A 0 Rated conditional short-circuit current, type 2, 200 V A 0 Number of auxiliary contacts as normally open contact A 0 Number of auxiliary contacts as normally closed contact F 0 Ambient temperature, upper operating limit F 0 Release class C 60 Release class C F 0 Type of electrical connection of main circuit F C Screw connection Number of command positions F F Screw connection Number of command positions F No Screw connection Number of indicator lights F No Screw connection Number of indicator lights F No Screw connection Number of auxiliary contacts as normally contact F No Screw connection Number of maineritie F No	Rated operation current at AC-3, 400 V		А	12	
Rated conditional short-circuit current, type 2, 230 V A 0 Rated conditional short-circuit current, type 2, 230 V A 0 Number of auxiliary contacts as normally open contact P 0 Number of auxiliary contacts as normally closed contact 0 0 Ambient temperature, upper operating limit 0 0 Temperature compensated overload protection V V Release class C V V Rub transformer V V Screw connection Screw connection Number of command positions V V Ve Ve </td <td>Overload release current setting</td> <td></td> <td>А</td> <td>8 - 12</td>	Overload release current setting		А	8 - 12	
Ated conditional short-circuit current, type 2, 300 V A O Rated conditional short-circuit current, type 2, 400 V A O Number of auxiliary contacts as normally open contact A O Number of auxiliary contacts as normally closed contact C O Ambient temperature, upper operating limit C O Temperature compensated overload protection C Second Release class C Second Second Type of electrical connection of main circuit C Second Second Number of constand positions C Second Second Second Number of constand positions C Second	Rated conditional short-circuit current, type 1, 480 Y/277 V		А	0	
Rated conditional short-circuit current, type 2, 400 V A Number of auxiliary contacts as normally open contact 1 Number of auxiliary contacts as normally closed contact 0 Ambient temperature, upper operating limit C 60 Temperature compensated overload protection Yes C Release class C C C Type of electrical connection of main circuit Yes Crew connection Yub of electrical connection for auxiliary- and control current circuit Yes Crew connection Number of command positions Yes Screw connection Number of command positions Yes Screw connection Number of command positions Yes Screw connection Number of indicator lights Yes Screw connection Number of command positions Yes Screw connection Suitable for emergency stop No No Coordination class according to IEC 60947-4-3 Yes Screw Connection Number of indicator lights Yes No No Number of indicator lights Yes No No No Screw Contexter No	Rated conditional short-circuit current, type 1, 600 Y/347 V		А	0	
Number of auxiliary contacts as normally open contact Image:	Rated conditional short-circuit current, type 2, 230 V		А	0	
Number of auxiliary contacts as normally closed contact Image: Contact is a normally closed contact Image: Contact is a normally closed contact Ambient temperature, upper operating limit Image: Contact is a normally closed contact Image: Contact is a normally closed contact Temperature compensated overload protection Image: Contact is a normally closed contact Image: Contact is a normally closed contact Release class CLASS 10 Type of electrical connection of main circuit Image: Contact is a normally closed control current circuit Image: Contact is a normally closed contact is normally closed contact is a n	Rated conditional short-circuit current, type 2, 400 V		А	0	
Ambient temperature, upper operating limitC60Temperature compensated overload protectionYesRelease classCLASS 10Type of electrical connection of main circuitScrew connectionType of electrical connection for auxiliary- and control current circuitYesRail mounting possibleYesWith transformerNoNumber of command positionsYesSuitable for emergency stopScrew connectionCoordination class according to IEC 60947-4-3YesNumber of indicator lightsYesLinder of metric lightsScrew connectionNumber of suitable for emergency stopScrew connectionNumber of indicator lightsYesNumber of indicator lightsYes<	Number of auxiliary contacts as normally open contact			1	
Temperature compensated overload protection Kei 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 Screw connection Stable for emergency stop Screw connection Coordination class according to IEC 60947-4-3 Screw connection Number of indicator lights Screw connection Screw connection Screw connection Screw connection Screw connection Screw connection No Screw connection Screw connection Screw connection </td <td>Number of auxiliary contacts as normally closed contact</td> <td></td> <td></td> <td>0</td>	Number of auxiliary contacts as normally closed contact			0	
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 Screw connection With transformer No Number of command positions Screw connection Suitable for emergency stop Screw connection Number of indicator lights Screw connection No Screw connection No Screw connection No Screw connection	Ambient temperature, upper operating limit		°C	60	
Type of electrical connection of main circuit Image: Stew connection Type of electrical connection for auxiliary- and control current circuit Stew connection Rail mounting possible Ves With transformer No Number of command positions Image: Stew connection Stitable for emergency stop Image: Stew connection Number of indicator lights Image: Stew connection Number of indicator lights Image: Stew connection Stem connection stew Image: Stew connection Stem connection stew Image: Stew connection Stew connection Image: Stew connection	Temperature compensated overload protection			Yes	
Type of electrical connection for auxiliary- and control current circuit Main auxiliary Screw connection Rail mounting possible Yes With transformer No Number of command positions Main Suitable for emergency stop Main Coordination class according to IEC 60947-43 Main Number of indicator lights Main For emergency stop Main Number of indicator lights Main No Main	Release class			CLASS 10	
Rail mounting possible Yes With transformer No Number of command positions Image: Command positions Suitable for emergency stop Image: Command positions Coordination class according to IEC 60947-4-3 Image: Command positions Number of indicator lights Image: Command positions Kernal reset possible Image: Command positions	Type of electrical connection of main circuit			Screw connection	
With transformerNoNumber of command positionsImage: Command positionsSuitable for emergency stopImage: Command position class according to IEC 60947-4-3Coordination class according to IEC 60947-4-3Image: Command position class according to IEC 60947-4-3Number of indicator lightsImage: Command position class according to IEC 60947-4-3Number of indicator lightsImage: Command position class according to IEC 60947-4-3Number of indicator lightsImage: Command position class according to IEC 60947-4-3Number of indicator lightsImage: Command position class according to IEC 60947-4-3Number of indicator lightsImage: Command position class according to IEC 60947-4-3Number of indicator lightsImage: Command position class according to IEC 60947-4-3Number of indicator lightsImage: Command position class according to IEC 60947-4-3Number of indicator lightsImage: Command position class according to IEC 60947-4-3Number of indicator lightsImage: Command position class according to IEC 60947-4-3Number of indicator lightsImage: Command position class according to IEC 60947-4-3Number of indicator lightsImage: Command position class according to IEC 60947-4-3Number of indicator lightsImage: Command position class according to IEC 60947-4-3Number of indicator lightsImage: Command position class according to IEC 60947-4-3Number of indicator lightsImage: Command position class according to IEC 60947-4-3Number of indicator lightsImage: Command position class according to IEC 60947-4-3Number of indicator lights <td< td=""><td>Type of electrical connection for auxiliary- and control current circuit</td><td></td><td></td><td>Screw connection</td></td<>	Type of electrical connection for auxiliary- and control current circuit			Screw connection	
Number of command positionsPPSuitable for emergency stopONoCoordination class according to IEC 60947-4-3Celes 1Number of indicator lightsCeles 1External reset possibleO	Rail mounting possible			Yes	
Suitable for emergency stop No Coordination class according to IEC 60947-4-3 Cass 1 Number of indicator lights O External reset possible No	With transformer			No	
Coordination class according to IEC 60947-4-3 Class 1 Number of indicator lights O External reset possible No	Number of command positions			0	
Number of indicator lights Image: Comparison of the co	Suitable for emergency stop			No	
External reset possible No	Coordination class according to IEC 60947-4-3			Class 1	
	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



Assets (links)

Declaration of CE Conformity 00002885 **Instruction Leaflets** IL034038ZU2018_06

Additional product information (links)

IL034038ZU (AWA1210-2246) Direct-on-line starter up to 15 A				
IL034038ZU (AWA1210-2246) Direct-on-line starter up to 15 A	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL034038ZU2018_06.pdf			
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			