# **DATASHEET - MSC-DEA-12-M9(24VDC)**



DOL starter, 380 V 400 V 415 V: 4 kW, 100 kA, Ir: 3 - 12 A, Connection to SmartWire-DT: yes, 24 V DC, DC

Powering Business Worldwide

**6** 

MSC-DEA-12-M9(24VDC) Part no.

4137406

121756 Catalog No.

Alternate Catalog

XTSEA012B009BTDNL

No.

**EL-Nummer** 

(Norway)

Delivery program			
Basic function			DOL starters (complete devices)
			MSC
Basic device			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			yes in conjunction with PKE-SWD-32 SmartWire DT PKE module
Motor ratings			
Motor rating			
AC-3			
380 V 400 V 415 V	P	kW	4
Rated operational current			
AC-3			
380 V 400 V 415 V	I <sub>e</sub>	Α	8.5
Rated short-circuit current 380 - 415 V	Iq	kA	100
Setting range			
Setting range of overload releases	l <sub>r</sub>	Α	3 - 12
Coordination			Type of coordination "1"
Contact sequence  Actuating voltage			M 3~ 24 V DC
			DC
Motor-protective circuit-breakers PKE12/XTUA-12			
Contactor DILM9-01()			
DOL starter wiring set			

Mechanical connection element and electrical electric contact module PKZM0-XDM12

#### Notes

The DOL starters (complete units) consist of a PKE motor protective circuit breaker and a DILM contactor.

With the adapter-less top-hat rail mounting of starters up to 15 A, only the motor protective circuit breaker on the top-hat rail requires an adapter.

The contactors are provided with mechanical support via a mechanical connection element.

 $Control\ wire\ guide\ with\ max.\ 6\ conductors\ up\ to\ 2.5\ mm\ external\ diameter\ or\ 4\ conductors\ up\ to\ 3.5\ mm\ external\ diameter.$ 

The connection of the main circuit between PKE and contactor is established with electrical contact modules.

When using DILA-XHIT... auxiliary contacts with MSC-DE-... DOL starters, the plug-in electrical connectors can be removed without removing the front-mounted auxiliary contact.

Cannot be combined with NHI-E...PKZ0-C.

The MSC-DEA... DOL starters are prepared for communication via SmartWire-DT. For this, the PKE-SWD-32 communication module must be added.

Motor output/rated motor current			
Motor rating	Rated motor current AC-3		
	220 V	380 V	415 V
	230 V	400 V	
	240 V		
	$I_q = 100 \text{ kA}$	I <sub>q</sub> =100 kA	$I_q = 50 \text{ kA}$
P	1	1	I
kW	A	A	Α
0.75	3.2	-	-
1.1	4.6	-	-
1.5	6.3	3.6	3.6
2.2	8.7	5	5
3	-	6.6	6.6
4	-	8.5	8.5

IEC/EN 60947-4-1, VDE 0660

### **Technical data**

#### **General** Standards

otaniaaras			1E0/EN 00347 4 1, VBE 0000
Mounting position			
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 <sub>e</sub>	V	230 - 415
Rated operational current			
Open, 3-pole: 50 – 60 Hz			
380 V 400 V	I <sub>e</sub>	Α	9
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			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			
Current heat loss			
Current heat loss at I <sub>e</sub> to AC-3/400 V		W	2.19

#### **Power consumption**

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### **Design verification as per IEC/EN 61439**

Design verincation as per 126/214 01433			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	9
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0.7
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	2.2
Static heat dissipation, non-current-dependent	P <sub>vs</sub>	W	2.6
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 switch gear must be observed. $\label{eq:constraint}$
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**

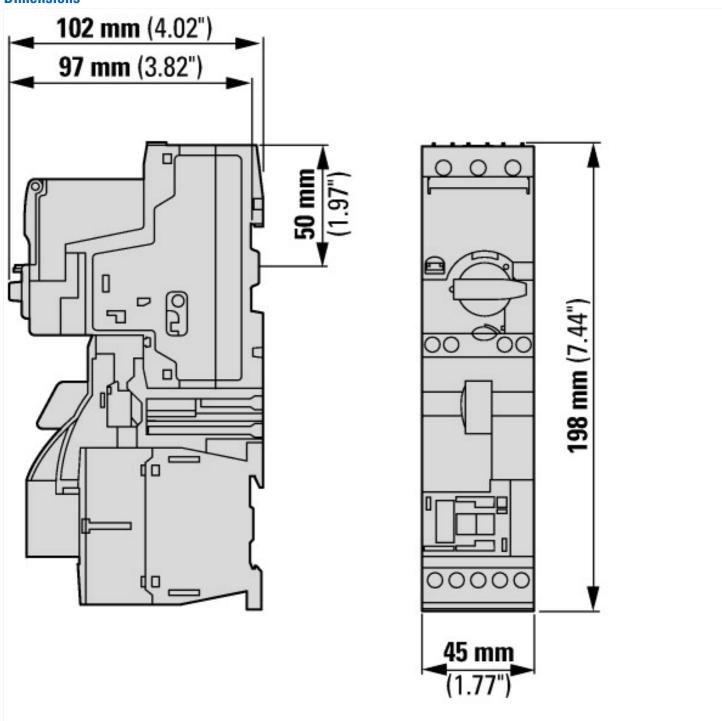
Low-voltage industrial components (EG000017) / Motor starter/Motor starter combination (EC001037)

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  With short-circuit release Rated control supply voltage Us at AC 50HZ  Rated control supply voltage Us at AC 60HZ  Rated control supply voltage Us at AC 60HZ  Rated control supply voltage Us at DC  V  24 - 24  Voltage type for actuating  Rated operation power at AC-3, 230 V, 3-phase  Rated operation power at AC-3, 400 V  Rated power, 460 V, 60 Hz, 3-phase  Rated power, 575 V, 60 Hz, 3-phase  Rated operation current le  A  Birct starter  Yes  Yes  New  0 - 0  C  4 - 24  DC  C  4 - 24  A  4 - 24  A  4 - 24  A  A  A  Birct doperation power at AC-3, 230 V, 3-phase  KW  4 - 4  C  C  C  C  C  C  C  C  C  C  C  C  C	[AJZ/18013])		
Rated control supply voltage Us at AC 50HZ  Rated control supply voltage Us at AC 60HZ  V  0 - 0  Rated control supply voltage Us at DC  V  24 - 24  Voltage type for actuating  DC  Rated operation power at AC-3, 230 V, 3-phase  kW  2.2  Rated operation power at AC-3, 400 V  Rated power, 460 V, 60 Hz, 3-phase  kW  0  Rated power, 575 V, 60 Hz, 3-phase  kW  0	Kind of motor starter		Direct starter
Rated control supply voltage Us at AC 60HZ  Rated control supply voltage Us at DC  V 24 - 24  Voltage type for actuating  DC  Rated operation power at AC-3, 230 V, 3-phase  kW 2.2  Rated operation power at AC-3, 400 V  Rated power, 460 V, 60 Hz, 3-phase  kW 0  Rated power, 575 V, 60 Hz, 3-phase  kW 0	With short-circuit release		Yes
Rated control supply voltage Us at DC  V 24 - 24  Voltage type for actuating  Rated operation power at AC-3, 230 V, 3-phase  Rated operation power at AC-3, 400 V  Rated power, 460 V, 60 Hz, 3-phase  kW 0  Rated power, 575 V, 60 Hz, 3-phase  kW 0	Rated control supply voltage Us at AC 50HZ	V	0 - 0
Voltage type for actuating  Rated operation power at AC-3, 230 V, 3-phase  kW 2.2  Rated operation power at AC-3, 400 V kW 4  Rated power, 460 V, 60 Hz, 3-phase kW 0  Rated power, 575 V, 60 Hz, 3-phase kW 0	Rated control supply voltage Us at AC 60HZ	V	0 - 0
Rated operation power at AC-3, 230 V, 3-phase kW 2.2 Rated operation power at AC-3, 400 V kW 4 Rated power, 460 V, 60 Hz, 3-phase kW 0 Rated power, 575 V, 60 Hz, 3-phase kW 0	Rated control supply voltage Us at DC	V	24 - 24
Rated operation power at AC-3, 400 V	Voltage type for actuating		DC
Rated power, 460 V, 60 Hz, 3-phase kW 0 Rated power, 575 V, 60 Hz, 3-phase kW 0	Rated operation power at AC-3, 230 V, 3-phase	kW	2.2
Rated power, 575 V, 60 Hz, 3-phase kW 0	Rated operation power at AC-3, 400 V	kW	4
	Rated power, 460 V, 60 Hz, 3-phase	kW	0
Rated operation current le A 8.5	Rated power, 575 V, 60 Hz, 3-phase	kW	0
	Rated operation current le	Α	8.5

Overbod release current setting         A         3 - 12           Rander candidational short incrinal current, year 1,480 Y277 Y         A         0           Rander candidational short incrinal current, year 2,480 Y         A         0           Rander candidational short-incrinal current, year 2,480 Y         A         0           Number of anishing-contracts as cornially closed contact         1         1           Number of anishing-contracts as cornially closed contact         1         4           The principal contracts as cornially closed contact         1         4           The principal contracts as cornially closed contact         1         4           Release close         1         4         6           Temperatural comprehensive preparating limit         4         7         8           Release close         4         Adjustable         7         9           The principal connection of main creat         4         8         9	Peterd energation ourset at AC 2 400 V	٨	0
Ratical conditional abona circuit current, type 1,480 Y237 V	Rated operation current at AC-3, 400 V	Α	9
Renal conditional short-circuit current, type 2, 000 YIGHT V         A         0           Renal conditional short-circuit current, type 2, 200 Y         A         0           Number of a sundiary contracts as normally open centract         C         0           Number of a sundiary contracts as normally open centract         "C         9           Competition of contracts as normally open central contracts on the contract of the contr			
Rated canditional short-circuit current, type 2, 280 V         A         0           Rated canditional short-circuit current, type 2, 400 V         A         0           Number of a suarios stace a norming by contact         0         1           Number of a suarios current care a norming by contact         1         7           Number of a suarios current current in the control current current current in the control current current current in the current current in the current current current in the current current current in the current current in the current current in the current current in the current current current current in the current current current in the current current current current in the current current current current in the current			
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Number of auxiliary contacts as normally open contact  Number of auxiliary contacts as normally closed contact  Number of auxiliary contacts as normally closed contact  Temperature compessated overloop protection  Relinease class  Temperature compessated overloop protection  Relinease class  Type of electrical connection of main circuit  Type of electrical connection for auxiliary- and control current circuit  Rail mounting passable  Yes electrical connection for auxiliary- and control current circuit  Rail mounting passable  Namber of command positions  Number of indicator lights  Command positions  Number of indicator lights  Number			
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Ambient temperature, upper operating limit         °C         60           Temperature compensated overload protection         0         Vis           Release class         Adjustable           Type of electrical connection of main circuit         0         Screw connection           Nall mounting possible         No         No           Nall mounting possible         0         No           Number of command positions         0         No           Suitable for amergancy stop         0         No           Contention in case a counting to ISC 00847-4-3         0         No           With fund         No         No           Degree of protecting interest opasible         No         No           With fund         120         No           Degree of protection IPP         120         No           Upger of protection IPP         No         No           Supporting protect for FORPISUS         No         No           Supporting protect for FORPISUS         No         No           Supporting protect for PORPISUS         No         No           Supporting protect for MODEUS         No         No           Supporting protect for Duta-Helphay         No         No           Supporting pro	·		
Temperature compensated overload protection  Richesso class  Adjustable  Screw connection  Relim control connection of main circuit  Type of electrical connection for auxiliany- and control current circuit  Rial in mounting possible  With transfarmer  With transfarmer  With transfarmer  With transfarmer  With transfarmer  With transfarmer  Coordination class a ecording to EE 59987-4-3  With transfarmer  With transfarmer  With Lises  Pages and protection class a ecording to EE 59987-4-3  With transfarmer  With Lises  Pages and protection (LEP 59987-4-3  With Lises  External reset possible  With Lises  Pages and protection (LEP 59987-4-3  With Lises  External reset possible  With Lises  Pages and protection (LEP 59987-4-3  With Lises  External reset possible  With Lises  Pages and protection (LEP 59987-4-3  With Lises  Supporting protect for TCP/IP  With Lises  Supporting protect for TCP/IP  With Lises  Supporting protect for MITERUS  Supporting protect for MITERUS  Supporting protect for Mobility  With Lises  Supporting protect for Mobility  With Lises  With Lises  Supporting protect for Mobility  With Lises  With	·	20	
Release class         Adjustable           Type of electrical connection of main circuit         Screw connection           Type of electrical connection for auxiliary- and control current circuit         Screw connection           Rall mounting possible         Yes           With transformer         No           Number of command positions         On           Supable for emergency stop         Class 1           Coordination class according to IEC 6097-4-3         On           Number of indicator lights         No           External reset possible         No           With tras         No           Degree of protection (IP)         Po           Operand protection (IP)         No           Supporting protected for CAPP         No           Supporting protected for PCPP         No           Supporting protected for FACPIP         No           Supporting protected for FACPIP         No           Supporting protected for CAN         No           Supporting protected for ADBUS         No           Supporting protected for ADBUS         No           Supporting protected for ADBUS Highway         No           Supporting protected for Described         No           Supporting protected for FACPIP         No      S		36	
Type of electrical connection of main circuit         Screw connection           Type of electrical connection for auxiliary- and centrol current circuit         Yes           Roll mounting possible         No           Number of command positions         10           Suitable for emergency stop         Class 1           Coordination class according to IEE 60917-4-3         No           Number of indicator lights         0           External reset possible         No           With fuse         1920           Degree of protection INEMAN         Other           Supporting protocel for TCPIP         No           Supporting protocel for TROFIBIUS         No           Supporting protocel for PROFIBIUS         No           Supporting protocel for No MOBUS         No           Supporting protocel for INTERBUS         No           Supporting protocel for MOBUS         No           Supporting protocel for DeviceNet         No           Supporting protocel for DeviceNet         No           Supporting protocel for DeviceNet         No           Supporting protocel for PROFINET IO         No           Supporting protocel for PROFINET GBA         No           Supporting protocel for PROFINET GBA         No           Supporting protocel for FROF			
Type of electrical connection for auxiliary- and control current circuit         Screw connection           Rail mounting possible         Yos           With transformer         No           Number of command positions         0           Suitable for emergency stop         No           Coordination class according Intel EG 60947-4-3         Class 1           Number of indicator sights         No           Degree of protection (IP)         No           Degree of protection (IP)         P20           Degree of protection (NMA)         Other           Supporting protocol for TCP/IP         No           Supporting protocol for TCP/IP         No           Supporting protocol for TCRBIBUS         No           Supporting protocol for NOBOBUS         No           Supporting protocol for MOBUS         No           Supporting protocol for MOBUS         No           Supporting protocol for PROFINET         No           Supporting protocol for SEROS         No			
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With transformer         No           Number of command positions         Collegate of command positions           Subtable for emergency stop         Colass           Cordrination class a coording to IEC 88947-43         Collegate of Collegate of IEC 88947-43           Number of Indicator lights         No           External reset possible         No           With fuse         P20           Degree of protection (IP)         P20           Degree of protection (IPA)         P20           Supporting protocol for TCPIPP         No           Supporting protocol for PROFIBEUS         No           Supporting protocol for RASI         No           Supporting protocol for MDBBUS         No           Supporting protocol for MDBBUS         No           Supporting protocol for Data-Highway         No           Supporting protocol for Data-Highway         No           Supporting protocol for DeviceNet         No           Supporting protocol for DeviceNet         No           Supporting protocol for PROFINETO         No			
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Supporting protocol for INTERBUS  Supporting protocol for ASI  Supporting protocol for MOBBUS  Supporting protocol for Data-Highway  Supporting protocol for Deta-Highway  Supporting protocol for DeviceNet  Supporting protocol for SUCONET  Supporting protocol for SUCONET  Supporting protocol for PROFINET IO  Supporting protocol for PROFINET IO  Supporting protocol for PROFINET BA  Supporting protocol for PROFINET BA  Supporting protocol for PROFINET BA  Supporting protocol for SHOWA  Supporting protocol for SHOWA  Supporting protocol for SHOWA  Supporting protocol for PROFINET BA  Supporting protocol for PROFINET BA  Supporting protocol for SHOWA  Supporting protocol for PROFINET BA  Supporting protocol for Safety BUS-Safety  Supporting protocol for Safety BUS-Safety  Supporting protocol for PROFINET BA  Supporting protocol for PROFINET BA  Supporting protocol for SafetyBUS-Safety  No  No  Supporting protocol for SafetyBUS-Safety  No  No  Supporting protocol for SafetyBUS-Safety  No  No  No	11 11		No
Supporting protocol for INTERBUS         No           Supporting protocol for ASI         No           Supporting protocol for MOBBUS         No           Supporting protocol for Data-Highway         No           Supporting protocol for DeviceNet         No           Supporting protocol for SUCONET         No           Supporting protocol for PROFINET IO         No           Supporting protocol for PROFINET GBA         No           Supporting protocol for SERCOS         No           Supporting protocol for Foundation Fieldbus         No           Supporting protocol for EtherNet/IP         No           Supporting protocol for EtherNet/IP         No           Supporting protocol for DeviceNet Safety at Work         No           Supporting protocol for DeviceNet Safety         No           Supporting protocol for DeviceNet Safety         No           Supporting protocol for DeviceNet Safety         No           Supporting protocol for SafetyBUS-Safety         No           Supporting protocol for PROFIsafe         No           Supporting protocol for SafetyBUS p         No           Supporting protocol for SafetyBUS p         No           Supporting protocol for other bus systems         Yes           Width         mm         45			No
Supporting protocol for ASI Supporting protocol for MODBUS Supporting protocol for Data-Highway Supporting protocol for DeviceNet Supporting protocol for SUCONET Supporting protocol for SUCONET Supporting protocol for PROFINET IO Supporting protocol for PROFINET OS Supporting protocol for PROFINET GBA Supporting protocol for SERCOS Supporting protocol for Fundation Fieldbus Supporting protocol for Fundation Fieldbus Supporting protocol for EtherNet/IP Supporting protocol for PROFINET GBA Supporting protocol for PROFINET GBA Supporting protocol for EtherNet/IP Supporting protocol for EtherNet/IP Supporting protocol for AS-Interface Safety at Work Supporting protocol for DeviceNet Safety Supporting protocol for DeviceNet Safety Supporting protocol for INTERBUS-Safety Supporting protocol for SafetyBUS p Supporting protocol for SafetyBUS p Supporting protocol for Other bus systems Width Height  Mm  198			No
Supporting protocol for Data-Highway  Supporting protocol for Data-Highway  Supporting protocol for DeviceNet  Supporting protocol for SUCONET  Supporting protocol for SUCONET  Supporting protocol for ROFINET IO  Supporting protocol for PROFINET CBA  Supporting protocol for SERCOS  Supporting protocol for SERCOS  Supporting protocol for SERCOS  Supporting protocol for EtherNet/IP  Supporting protocol for EtherNet/IP  Supporting protocol for SI-Interface Safety at Work  Supporting protocol for INTERBUS-Safety  Supporting protocol for PROFISER  Supporting protocol for PROFISER  Supporting protocol for SafetyBUS p  Supporting protocol for Cher bus systems  Width  Height  Height  Height  No  Supporting protocol for Bus systems  Mo  No  No  No  No  No  No  No  No  No			No
Supporting protocol for Data-Highway  Supporting protocol for DeviceNet  Supporting protocol for SUCONET  Supporting protocol for SUCONET  Supporting protocol for SUCONET  Supporting protocol for PROFINET IO  Supporting protocol for PROFINET CBA  Supporting protocol for SERCOS  Supporting protocol for Fundation Fieldbus  Supporting protocol for Fundation Fieldbus  Supporting protocol for Fundation Fieldbus  Supporting protocol for SetherNet/IP  Supporting protocol for DeviceNet Safety at Work  Supporting protocol for DeviceNet Safety at Work  Supporting protocol for INTERBUS-Safety  Supporting protocol for PROFISafe  Supporting protocol for SafetyBUS p  Supporting protocol for SafetyBUS p  Supporting protocol for Other bus systems  Width  Height  Mn  198	Supporting protocol for ASI		No
Supporting protocol for DeviceNet Supporting protocol for SUCONET Supporting protocol for SUCONET Supporting protocol for PROFINET IO Supporting protocol for PROFINET CBA Supporting protocol for PROFINET CBA Supporting protocol for Foundation Fieldbus Supporting protocol for Foundation Fieldbus Supporting protocol for EtherNet/IP Supporting protocol for AS-Interface Safety at Work Supporting protocol for DeviceNet Safety Supporting protocol for INTERBUS-Safety Supporting protocol for SafetyBUS p Supporting protocol for SafetyBUS p Supporting protocol for Other bus systems Width Height  No  No  No  No  No  No  No  No  No  N	Supporting protocol for MODBUS		No
Supporting protocol for SUCONET  Supporting protocol for PROFINET IO  Supporting protocol for PROFINET CBA  Supporting protocol for SERCOS  Supporting protocol for Foundation Fieldbus  Supporting protocol for EtherNet/IP  Supporting protocol for AS-Interface Safety at Work  Supporting protocol for DeviceNet Safety  Supporting protocol for INTERBUS-Safety  Supporting protocol for INTERBUS-Safety  Supporting protocol for SafetyBUS p  Supporting protocol for SafetyBUS p  Supporting protocol for Other bus systems  Width  Height  Height  No  No  No  No  No  No  No  No  No  N			No
Supporting protocol for LON Supporting protocol for PROFINET IO Supporting protocol for PROFINET CBA Supporting protocol for SERCOS Supporting protocol for SERCOS Supporting protocol for Foundation Fieldbus Supporting protocol for Foundation Fieldbus Supporting protocol for AS-Interface Safety at Work Supporting protocol for AS-Interface Safety at Work Supporting protocol for DeviceNet Safety Supporting protocol for INTERBUS-Safety Supporting protocol for SafetyBUS p Supporting protocol for other bus systems Width  mm 45 Height  mm 198	Supporting protocol for DeviceNet		No
Supporting protocol for PROFINET CBA  Supporting protocol for PROFINET CBA  Supporting protocol for SERCOS  Supporting protocol for Foundation Fieldbus  Supporting protocol for Foundation Fieldbus  Supporting protocol for EtherNet/IP  Supporting protocol for AS-Interface Safety at Work  Supporting protocol for DeviceNet Safety at Work  Supporting protocol for DeviceNet Safety  Supporting protocol for INTERBUS-Safety  Supporting protocol for PROFIsafe  Supporting protocol for SafetyBUS p  Supporting protocol for SafetyBUS p  Supporting protocol for other bus systems  Width  Imm  Height  No  No  No  No  No  No  No  No  Supporting protocol for other bus systems  No  Supporting protocol for other bus systems  No  Yes  Width  Imm  198			
Supporting protocol for PROFINET CBA  Supporting protocol for SERCOS  Supporting protocol for Foundation Fieldbus  Supporting protocol for EtherNet/IP  Supporting protocol for EtherNet/IP  Supporting protocol for DeviceNet Safety at Work  Supporting protocol for DeviceNet Safety at Work  Supporting protocol for INTERBUS-Safety  Supporting protocol for PROFIsafe  Supporting protocol for SafetyBUS p  Supporting protocol for SafetyBUS p  Supporting protocol for other bus systems  Width  mm  45  Height	Supporting protocol for LON		No
Supporting protocol for SERCOS  Supporting protocol for Foundation Fieldbus  Supporting protocol for EtherNet/IP  No  Supporting protocol for AS-Interface Safety at Work  Supporting protocol for DeviceNet Safety  Supporting protocol for INTERBUS-Safety  No  Supporting protocol for PROFIsafe  Supporting protocol for SafetyBUS p  Supporting protocol for other bus systems  Width  mm  45  Height			No
Supporting protocol for Foundation Fieldbus  Supporting protocol for EtherNet/IP  No Supporting protocol for AS-Interface Safety at Work  Supporting protocol for DeviceNet Safety at Work  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  Width  mm  45 Height  mm  198			No
Supporting protocol for EtherNet/IP Supporting protocol for AS-Interface Safety at Work Supporting protocol for DeviceNet Safety Supporting protocol for INTERBUS-Safety Supporting protocol for INTERBUS-Safety Supporting protocol for PROFIsafe Supporting protocol for SafetyBUS p Supporting protocol for SafetyBUS p Supporting protocol for other bus systems Width Mmm 45 Height Mo 198	Supporting protocol for SERCOS		No
Supporting protocol for AS-Interface Safety at Work Supporting protocol for DeviceNet Safety Supporting protocol for INTERBUS-Safety No Supporting protocol for PROFIsafe No Supporting protocol for SafetyBUS p Supporting protocol for other bus systems Ves Width Mmm 45 Height No			No
Supporting protocol for DeviceNet Safety Supporting protocol for INTERBUS-Safety No Supporting protocol for PROFIsafe No Supporting protocol for SafetyBUS p No Supporting protocol for other bus systems Ves Width mm 45 Height 198	Supporting protocol for EtherNet/IP		No
Supporting protocol for INTERBUS-Safety  Supporting protocol for PROFIsafe  No Supporting protocol for SafetyBUS p  Supporting protocol for SafetyBUS p  Width  mm  45  Height  Mo  198	Supporting protocol for AS-Interface Safety at Work		No
Supporting protocol for PROFIsafe  Supporting protocol for SafetyBUS p  Supporting protocol for other bus systems  Width  Meight  Mo  Yes  Width  Mm  45  Height	Supporting protocol for DeviceNet Safety		No
Supporting protocol for SafetyBUS p No Supporting protocol for other bus systems Yes Width mm 45 Height 198	Supporting protocol for INTERBUS-Safety		No
Supporting protocol for other bus systems  Width  mm  45  Height  mm  198	Supporting protocol for PROFIsafe		No
Width mm 45 Height mm 198	Supporting protocol for SafetyBUS p		No
Height mm 198	Supporting protocol for other bus systems		Yes
	Width	mm	45
Depth mm 102	Height	mm	198
	Depth	mm	102

# **Dimensions**



#### **Assets (links)**

**Declaration of CE Conformity** 

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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	
Moeller_Online Selections Aids	http://www.moeller.net/en/support/slider/index.jsp	