DATASHEET - MSC-DEA-12-M17-SP(24VDC)



DOL starter, Ir: 3 - 12 A, Connection to SmartWire-DT: yes, 24 V DC, DC Voltage

Part no. Catalog No. Alternate Catalog No.

MSC-DEA-12-M17-SP(24VDC) 167824 log XTFCE012BCCATD



Delivery program

Derivery program			
Basic function			Type E DOL starters (complete devices)
Basic device			MSC
Components for			North America
Connection to SmartWire-DT			yes in conjunction with PKE-SWD-32 SmartWire DT PKE module
Maximum motor rating			
AC HP = PS			
200 V 208 V		HP	3
230 V 240 V		HP	3
460 V 480 V		HP	7.5
Short Circuit Current Rating			
240 V		kA	18
480 Y 277 V		kA	18
Setting range			
Setting range of overload releases	l _r	A	3 - 12
Contact sequence			
Actuating voltage			24 V DC
			DC Voltage
Motor-protective circuit-breakers PKE12/XTU-12			
Contactor DILM17-01()			

DOL starter wiring set

Extension terminal BK25/3-PKZ0-E

Notes

The DOL starter type E (complete devices) consists of a PKE motor-protective circuit-breaker with AK-PKZ0, a DILM contactor and an extension terminal BK25/3-PKZ0-E.

Motor-protective circuit-breaker and contactor mounted on top hat rail adapter plate.

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

The MSC-DEA... DOL starters are prepared for communication via SmartWire-DT. In order to be used this way, they first need to be expanded with the PKE-SWD-32 communications module.

Technical data			
General			
Standards			IEC/EN 60947-4-1, VDE 0660, UL, CSA
Mounting position			
Main conducting paths			
Rated impulse withstand voltage	U _{imp}	V AC	6000
Overvoltage category/pollution degree			III/3
Rated operational voltage	U _e	V	208 - 600
Rated operational current			
Open, 3-pole: 50 – 60 Hz			
380 V 400 V	Ι _e	А	12
AC-4 cycle operation			
Minimum current flow times		ms	500 (Class 5) 700 (Class 10) 900 (Class 15) 1000 (Class 20)
Minimum cut-out periods		ms	500
Note		ms	In AC-4 cycle operation, going below the minimum current flow time can cause overheating of the load (motor). For all combinations with an SWD activation, you need not adhere to the minimum current flow times and minimum cut-out periods.
Additional technical data			
Motor protective circuit breaker PKZM0, PKE			PKE motor-protective circuit-breaker, see motor-protective circuit-breaker produc group DILM contactors, see contactor product group
DILM contactors			
Current heat loss			
Current heat loss at $\rm I_{e}$ to AC-3/400 V		W	4.2
Power consumption			
DC operated	Sealing	W	0.86
Rating data for approved types			
Switching capacity			
Maximum motor rating			
Three-phase			
200 V 208 V		HP	3
230 V 240 V		HP	3
460 V 480 V		HP	7.5
Auxiliary contacts			
Pilot Duty			
AC operated			A600
DC operated			P300
General Use			
AC		V	600
AC		А	15

DC	V		250
DC	A		1
Short Circuit Current Rating, type E	S	CCR	
240 V	k	Ą	18
480 Y / 277 V	k	A	18

Design verification as per IEC/EN 61439

besign vermoution us per incorner			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	12
Heat dissipation per pole, current-dependent	P _{vid}	W	1.4
Equipment heat dissipation, current-dependent	P _{vid}	W	4.2
Static heat dissipation, non-current-dependent	P _{vs}	W	0.86
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 [AJZ718013])

Kind of motor starter		Direct starter
With short-circuit release		Yes
Rated control supply voltage Us at AC 50HZ	V	0 - 0
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	3
Rated operation power at AC-3, 400 V	kW	7.5

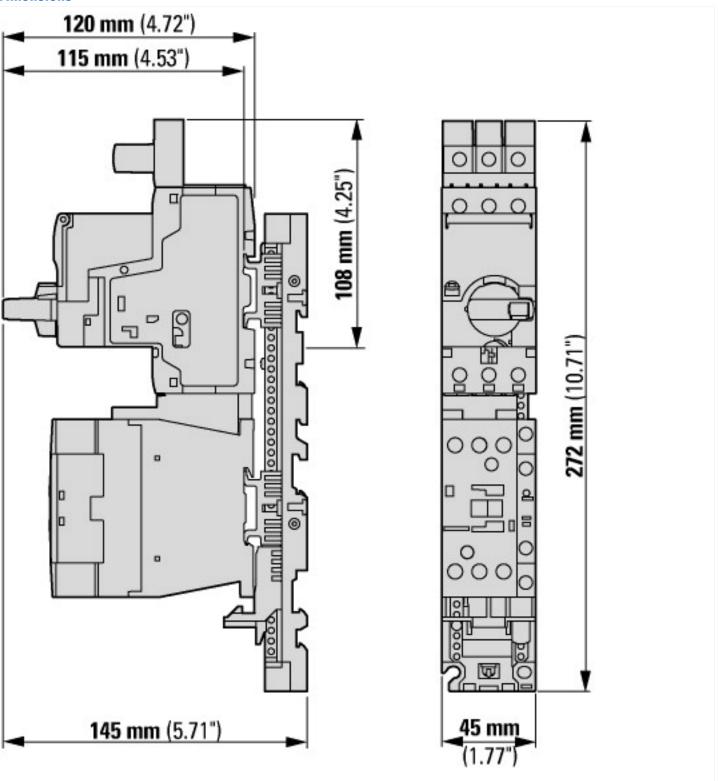
initial production of the plane in the production of the plane in the pla	Rated power, 460 V, 60 Hz, 3-phase	kW	5 62
indequencion current hable 3, 000 i			5.52
iad question uner at AG 309 (model of a part of a			
And control water services action by etc. and the probability of the prob			
Rank candidual bark-ricuit curum, yes 1, 60 YG3Y V I A I Rank candidual bark-ricuit curum, yes 1, 60 YG3Y V I A I Radi candidual bark-ricuit curum, yes 2, 40 Y I I I Number dualing contrats a normally open carrier I I I Antheor dualing contrats a normally open carrier I I I Number dualing contrats a normally open carrier I I I Reser class I I I I Reser class I I I I Reser class I I I I I Reser class I			
Bade conditional alor - circuit current, type 2, 20 V A 0 Bade conditional alor - circuit current, type 2, 20 V A 0 Number of auxiliary contexts a numby observation V 0 Number of auxiliary contexts a numby observation V 0 Relate conditional alor - circuit current, type 2, 20 V 0 0 Temperature contexts a numby observation V 0 0 Relate context and private current of numby observation V A A Relate context and private current of number of current of			
Rade conditional adort-irrait current, type 2, 200 V A A Rade conditional adort-irrait current, type 2, 200 V A A Number of unsiding contracts as nonving locat carters V V A Anisher of unsiding contracts as nonving locat carters V V V Anisher of unsiding contracts as nonving locat carters V V V Top definited contracts for main facial V V V V Top definited contracts for main facial V V V V Top definited contracts for main facial V V V V Top definited contracts for main facial V V V V Nather of contracts for main facial V V V V Nather of contracts for MAN V V V V V Nather of contracts for MAN V V V V V V Nather of contracts for MAN V V V N N N Dared for for MAN V N			
Anti- circuit currently per 2, 420 Y P P Number datalisy contexts a nonwally bese dotted: 9 9 Antion transmitur oper contexti P 9 Status transmitur oper contexti P 9 Temperature consensated owned torbet from the contexti P 8 Temperature consensated owned torbet from the contexti P 9 Temperature consensated owned torbet from the contextication of main circuit P P Type of electricat connection of main circuit P P P Main contextion of main circuit P P P Mained contextion of maine circuit P P P Mained contextion of maine circuit P P P Mained conten			
Number dualing centacies an emplay loga contact I I Number dualing centacies an emplay loga contact I I Anderet tragerang, upper portaging I I Toga dualing centratics an emplay loga contact I I Toga dualing centratics an emplay loga contact I I Toga dualing centratics an emplay loga contact I I Toga dualing centratics an emplay loga contact and the antiper sector antiper sector antiper sector and the antiper sector antiper sec			
Aniver of auxiliary contacts as numbly closed contact I I Aniver of auxiliary contacts as numbly closed contact I I Release close Aujestablo Type of electrical connection framin diruit I I Balmanding occurrent diruit I I Bal	Rated conditional short-circuit current, type 2, 400 V	A	
Animeter comparated overbad protection Image: Second Sec	Number of auxiliary contacts as normally open contact		0
Temperature comparated overland protection Net Release Lass Adjustable Type of electrical connection of main circuit Scrow connection Poor of electrical connection for availance circuit Scrow connection Relinearing passible Vac With transformer O Number of connection for availance circuit Scrow connection Stable for emergency stop O Coordination class according to Edebf-4-3 Scrow Connection Muther of connection (PSM) Scrow Connection Degree of protection (PSM) Scrow Connection Degree of protection (PSM) Scrow Connection Degree of protection (PSM) Scrow Connection Supporting protect for PMOFB0S O Supporting protect for PMOFB0S Scrow Connection Supporting protect for PMOFB0S Scrow Connection Supporting protect for MUTBB0S Scrow Connection	Number of auxiliary contacts as normally closed contact		1
Release also Adjustable Type el electrical connection main circuit Serve connection Type el electrical connection main circuit Serve connection Baha outing possible Va With transform Va Stable for management Serve connection Stable f	Ambient temperature, upper operating limit	°C	60
Type of electrical connection for auxilary, and control current circuit Rever connection Type of electrical connection for auxilary, and control current circuit Since connection Rail mauring possible No With and aform No Stable for emerginery stop Since connection Number of incident lights Since connection Number of incident lights Since connection Number of incident lights Since connection Degree of protection IPAN Since connection Supporting protection IPAN <t< td=""><td>Temperature compensated overload protection</td><td></td><td>Yes</td></t<>	Temperature compensated overload protection		Yes
Type of electrical connection for subliary and control current circuit Image of control control current circuit Ver connection Rail mounding possible Ver connection Ver connection Suble for emergency stop 0 0 Condition class according to ELC0074-3 Ver connection Ver connection Bernard rest possible Ver connection Ver connection Condition class according to ELC0074-43 Ver connection Ver connection Condition class according to ELC0074-43 Ver connection No Condition class according to ELC0074-43 Ver connection No Condition class according to ELC0074-43 Ver connection No Supporting protocol for CAN No No Supporting protocol for CAN No No Supporting protocol for CAN No No Supporting protocol for PROFINET CAN	Release class		Adjustable
Ail anuning possible No With transformer No Number of command positions No Subable for memory stop No Conditation class according to IE 60047-4-3 No Number of indicator lights So Extrant act possible No Degree of protection (NEMA) No Degree of protection (NEMA) No Supporting protocol for FRDFBUS No Supporting protocol for FRDFBUS No Supporting protocol for NRDFBUS No Supporting protocol for Fundation Fieldbus No Supporting protocol for Fundation Fieldbus No Suppo	Type of electrical connection of main circuit		Screw connection
Number Number Number Number of command positions 0 0 Suitable or emergery step 0 0 Contrinsion closes according to EC08947-4.3 0 0 Contrinsion closes according to EC08947-4.3 0 0 Degree of protection life 0 0 0 Degree of protection NEMAN 0 0 0 Degree of protection NEMAN 0 0 0 Supporting protect for PAPIP 0 0 0 0 0 0 0 0 0 0 0 0 0	Type of electrical connection for auxiliary- and control current circuit		Screw connection
Number of commany positions Image: Positions Positions Positions Subble for emergancy stop Positions Res	Rail mounting possible		Yes
Subable for emergency stop Non- Non- Conditation class according to EC 6997-4-3 Consol Consol Number of indicator lights Sol Sol Sol Extrant react possible Non- Non- Sol Sol<	With transformer		No
Conditation Lass according to EEC 00947-4-3 Image of indicator lights Image of indicator lights Number of indicator lights Image of indicator lights Image of indicator lights Dignee of protection (PP) Image of indicator lights Image of indicator lights Dignee of protection (PEM) Image of indicator lights Image of indicator lights Supporting protection (PEM) Image of indicator lights Image of indicator lights Supporting protection (PEM) Image of indicator lights Image of indicator lights Supporting protection (PEM) Image of indicator lights Image of indicator lights Supporting protection (PEM) Image of indicator lights Image of indicator lights Supporting protection (PEM) Image of indicator lights Image of indicator lights Supporting protection (PEM) Image of indicator lights Image of indicator lights Supporting protection (PEM) Image of indicator lights Image of indicator lights Supporting protection (PEM) Image of indicator lights Image of indicator lights Supporting protection (PEM) Image of indicator lights Image of indicator lights Supporting protection (PEM) Image of indicator lights Image of indicator lights Supporting protection (PEM) Image of indicator lights Image of indicator lights Suppori	Number of command positions		0
Numer of indicator lights Image: Provide State Sta	Suitable for emergency stop		No
Remain ever possible No With fuse No Degree of protection (NEMA) P20 Supporting protection (NEMA) Mo Supporting protection for PG0FBUS No Supporting protection F00FDUS No Supporting protection	Coordination class according to IEC 60947-4-3		Class 2
Whitese No Degree of protection (NEMA) P20 Supporting protect for CAN Char Supporting protect for CAN No Supporting protect for MOEDBUS No Supporting protect for Support Su	Number of indicator lights		0
Degree of protection (NEMA) Pol Supporting protocol for CP/P No Supporting protocol for PROFIBUS No Supporting protocol for CAN No Supporting protocol for MDBUS No Supporting protocol for CAN No Supporting protocol for MDBUS No	External reset possible		No
Degree of protection (NEMA) Image: Protection (NEMA) Other Supporting protocol for CPAP No Supporting protocol for CAN No Supporting protocol for SUCONET No Supporting protocol for SPRINET CBA No	With fuse		No
Supporting protocol for TCP/IP No Supporting protocol for PAGHBUS No Supporting protocol for AN No Supporting protocol for ANS No Supporting protocol for MODBUS No Supporting protocol for ANS No Supporting protocol for MODBUS No Supporting protocol for MODBUS No Supporting protocol for MODBUS No Supporting protocol for SUCONET No Supporting protocol for SUCONET No Supporting protocol for SUCONET No Supporting protocol for PAGHINETOB No Supporting protocol for SUCONET No Supporting protocol for SURGOS No Supporting protocol for	Degree of protection (IP)		IP20
Supporting protocol for PADFIBUS Image: Supporting protocol for CAN Image: Supporting protocol for INTERBUS Supporting protocol for INTERBUS Image: Supporting protocol for MODBUS Image: Supporting protocol for MODBUS Supporting protocol for Data-Highway Image: Supporting protocol for DoviceNet Image: Supporting protocol for DoviceNet Supporting protocol for DoviceNet Image: Supporting protocol for SUCONET Image: Supporting protocol for SUCONET Supporting protocol for PADFINET IO Image: Supporting protocol for SUCONET Image: Supporting protocol for SUCONET Supporting protocol for SUCONET Image: Supporting protocol for SUCONET Image: Supporting protocol for SUCONET Supporting protocol for SUCONET Image: Supporting protocol for SUCONET Image: Supporting protocol for SUCONET Supporting protocol for SUCONET Image: Supporting protocol for SUCONET Image: Supporting protocol for SUCONET Supporting protocol for SUCONET Image: Supporting protocol for SUCONET Image: Supporting protocol for SUCONET Supporting protocol for SUCONET Image: Supporting protocol for SUCONET Image: Supporting protocol for SUCONET Supporting protocol for SUCONET Image: Supporting protocol for SUCONET Image: Supporting protocol for SUCONET Supporting protocol for SUCONET	Degree of protection (NEMA)		Other
Supporting protocol for CAN Image: Supporting protocol for INTERBUS Image: Supporting protocol for ASI Image: Supporting protocol for ASI Supporting protocol for ADBUS Image: Supporting protocol for Data-Highway Image: Supporting protocol for Data-Highway Image: Supporting protocol for Data-Highway Supporting protocol for Data-Highway Image: Supporting protocol for Data-Highway Image: Supporting protocol for Data-Highway Supporting protocol for Data-Highway Image: Supporting protocol for SUCONET Image: Supporting protocol for SUCONET Supporting protocol for PADFINET DBA Image: Supporting protocol for PADFINET DBA Image: Supporting protocol for PADFINET CBA Supporting protocol for FADFINET GBA Image: Supporting protocol for FADFINET CBA Image: Supporting protocol for FADFINET CBA Supporting protocol for FADFINET CBA Image: Supporting protocol for FADFINET CBA Image: Supporting protocol for FADFINET CBA Supporting protocol for FADFINET CBA Image: Supporting protocol for FADFINET CBA Image: Supporting protocol for FADFINET CBA Supporting protocol for FADFINET CBA Image: Supporting protocol for FADFINET CBA Image: Supporting protocol for FADFINET CBA Supporting protocol for FADFINET CBA Image: Supporting protocol for FADFINET CBA Image: Supporting protocol for FADFINET CBA <td< td=""><td>Supporting protocol for TCP/IP</td><td></td><td>No</td></td<>	Supporting protocol for TCP/IP		No
Supporting protect for INTERBUS Image: style	Supporting protocol for PROFIBUS		No
Supporting protocol for ASI No Supporting protocol for DDBUS No Supporting protocol for Data-Highway Mo Supporting protocol for DeviceNet Mo Supporting protocol for DeviceNet Mo Supporting protocol for DeviceNet Mo Supporting protocol for SUCONET Mo Supporting protocol for PROFINET IO Mo Supporting protocol for PROFINET CBA Mo Supporting protocol for SERCOS Mo Supporting protocol for ForHortNet/P Mo Supporting protocol for ForHortNet/P Mo Supporting protocol for PROFINET CBA Mo Supporting protocol for ForHortNet/P Mo Supporting protocol for ForHortNet/P Mo Supporting protocol for PROFISafe Mo Supporting protocol for PROFISafe </td <td>Supporting protocol for CAN</td> <td></td> <td>No</td>	Supporting protocol for CAN		No
Supporting protocol for MOBBUS No Supporting protocol for Data-Highway No Supporting protocol for DOCMET No Supporting protocol for DROFINET DGA No Supporting protocol for PROFINET DGA No Supporting protocol for Foundation Fieldbus No Supporting protocol for Addation Fieldbus No Supporting protocol for Data-Highway No Supporting protocol for Protocol for Moremanne No Supporting protocol for Data-Highway No Supporting protocol for NATERBUS-Safety at Work No Supporting protocol for PROFISH No Supporting protocol for PROFISH No Supporting protocol for PROFISH No	Supporting protocol for INTERBUS		No
Supporting protocol for Data-Highway No Supporting protocol for DeviceNet No Supporting protocol for DeviceNet No Supporting protocol for SUCONET No	Supporting protocol for ASI		No
Supporting protocol for DeviceNet No Supporting protocol for SUCONET No Supporting protocol for SUCONET No Supporting protocol for PROFINET IO No Supporting protocol for PROFINET DO No Supporting protocol for SERCOS No Supporting protocol for Fondation Fieldbus No Supporting protocol for SERCOS No Supporting protocol for Sertenvet/IP No Supporting protocol for Sertenvet/IP No Supporting protocol for NTERBUS-Safety No Supporting protocol for PROFISATE No Supporting protocol for Sertenvet/IP No Supporting protocol for NTERBUS-Safety No Supporting protocol for NTERBUS-Safety No Supporting protocol for Sertenvet/IP No Supporting protocol for NTERBUS-Safety No Supporting protocol for NTERBUS-Safety No Supporting protocol for Sertenvet/Sertenvet	Supporting protocol for MODBUS		No
Supporting protocol for SUCONET Image: Supporting protocol for LON No Supporting protocol for PROFINET IO No No Supporting protocol for PROFINET CBA No No Supporting protocol for SERCOS No No Supporting protocol for Sencol fo	Supporting protocol for Data-Highway		No
Supporting protocol for SUCONET Image: Supporting protocol for LON No Supporting protocol for PROFINET IO No No Supporting protocol for PROFINET CBA No No Supporting protocol for SERCOS No No Supporting protocol for Sencol fo	Supporting protocol for DeviceNet		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 AS-Interface Safety at Work No Supporting protocol for PROFISafe No Supporting protocol for PROFISafe No Supporting protocol for SafetyBUS p			No
Supporting protocol for PROFINET IO Mode 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 DiviceNet Safety at Work No Supporting protocol for INTERBUS-Safety Mode Supporting protocol for SNERCOS No Supporting protocol for Notation Fieldbus No Supporting protocol for EtherNet/IP No Supporting protocol for Notation Fieldbus No Supporting protocol for Snerose Mode Suporting protocol for Snerose Mode </td <td></td> <td></td> <td></td>			
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 DeviceNet Safety at Work No Supporting protocol for INTERBUS-Safety No Supporting protocol for SHROFINET CBA No Supporting protocol for New Safety No Supporting protocol for ShroteNets Safety 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 INTERBUS-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 No Width mm Height Ma			
Supporting protocol for Foundation FieldbusNoSupporting protocol for EtherNet/IPNoSupporting protocol for AS-Interface Safety at WorkNoSupporting protocol for DeviceNet SafetyNoSupporting protocol for INTERBUS-SafetyNoSupporting protocol for SafetyBUS pNoSupporting protocol for SafetyBUS pNoSupporting protocol for ther bus systemsMoSupporting protocol for NumberNoSupporting protocol for SafetyBUS pNoSupporting protocol for SafetyBUS pNoSupporting protocol for ther bus systemsMoWidthMoHeightMo			
Suporting protocol for EtherNet/IPMoSupporting protocol for AS-Interface Safety at WorkMoSupporting protocol for DeviceNet SafetyMoSupporting protocol for INTERBUS-SafetyMoSupporting protocol for PROFIsafeMoSupporting protocol for SafetyBUS pMoSupporting protocol for SafetyBUS pMoSupporting protocol for Other bus systemsMoWithMoHeightMmSupporting Protocol for SafetyBUS pMmSupporting pro			
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 Mo Supporting protocol for SafetyBUS p Mo <td></td> <td></td> <td></td>			
Supporting protocol for DeviceNet SafetyMoSupporting protocol for INTERBUS-SafetyMoSupporting protocol for PROFIsafeMoSupporting protocol for SafetyBUS pMoSupporting protocol for SafetyBUS pMoWidthMmHeightMmSupporting Protocol for SafetyBUSMn			
Supporting protocol for INTERBUS-Safety Mo Supporting protocol for PROFIsafe Mo Supporting protocol for SafetyBUS p Mo Supporting protocol for SafetyBUS p Mo Supporting protocol for other bus systems Mo Width mm Height mm			
Supporting protocol for PROFIsafeMoSupporting protocol for SafetyBUS pMoSupporting protocol for other bus systemsMoWidthMmHeightMmSupporting protocol for Additional for the bus systemsMmMoMmMathematical for the bus systemsMmMathematical for the bus systemsMmMath			
Supporting protocol for SafetyBUS p Image: Supporting protocol for other bus systems			
Supporting protocol for other bus systemsMMYesWidthmm45Heightmm272			
Widthnm45Heightnm272			
Height mm 272		-	
ueptn mm 145	-		
	Veptn	mm	145

Approvals

Approvais	
Product Standards	UL60947-4-1A; CSA-C22.2 No. 14-10; IEC60947-4-1; CE marking
UL File No.	E123500
UL Category Control No.	NKJH

CSA File No.	12528
CSA Class No.	3211-08
North America Certification	UL listed, CSA certifie
Specially designed for North America	Yes

Dimensions



Assets (links)

Declaration of CE Conformity 00003119 Instruction Leaflets IL03402052Z2018_03

Additional product information (links)

IL03402052Z Motorstarter combination: type E starter/type F starter with PKE

IL03402052Z Motorstarter combination: type E ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03402052Z2018_03.pdf starter/type F starter with PKE