



Function element for connecting interface to Modbus RTU

Part no. PKE-COM-RTU
Catalog No. 199344
Alternate Catalog No. PKE-COM-RTU

Delivery program

Product range		Accessories
Accessories		Modbus RTU PKE module
Function		For connecting the PKE with PKE-XTU(W)CP-... trip blocks to modbus RTU
Description		Fitted on PKE motor-protective circuit-breaker
Messages		Contactor state PKE All phase currents in % Thermal load as a % Trip indications (Overload, Short-circuit,...) Set value of overload releases Set short-circuit release value Part no. of trip block Trip and switch-on counter
Commands		Remote disconnection of motor-protective circuit-breaker
Information about equipment supplied		Plug with connection terminals included in delivery.
For use with		PKE12 PKE32 PKE65
<p>Instructions For motor-starter combinations, please use the following connectors: PKZM0-XDM15ME (for motor-starter combinations with DILM7...15 to 7.5 kW (400 V, 50 Hz) PKZM0-XDM32ME (for motor-starter combinations with DILM17...38 to 18.5 kW (400 V, 50 Hz)</p>		

Technical data

General

Standards		IEC/EN 61131-2
Dimensions (W x H x D)	mm	45 x 41 x 67,5
Weight	kg	0.04
Mounting		an PKE12/32/65
Mounting position		as PKE12/35/65

Ambient conditions, mechanical

Protection type (IEC/EN 60529, EN50178, VBG 4)		IP20
Vibrations (IEC/EN 61131-2:2008)		
Constant amplitude 3,5 mm	Hz	5 - 8.4
Constant acceleration 1 g	Hz	8.4 - 150
Mechanical shock resistance (IEC/EN 60068-2-27) semi-sinusoidal 15 g/11 ms	Impacts	9
Drop to IEC/EN 60068-2-31	Drop height mm	50
Free fall, packaged (IEC/EN 60068-2-32)	m	0.3

Electromagnetic compatibility (EMC)

Overvoltage category		II
Pollution degree		2
Electrostatic discharge (IEC/EN 61131-2:2008)		
Air discharge (Level 3)	kV	8
Contact discharge (Level 2)	kV	4
Electromagnetic fields (IEC/EN 61131-2:2008)		
80 - 1000 MHz	V/m	10
1.4 - 2 GHz	V/m	3
2 - 2.7 GHz	V/m	1
Radio interference suppression		EN 55011 Class A
Burst (IEC/EN 61131-2:2008, Level 3)		
Signal cable	kV	1
Radiated RFI (IEC/EN 61131-2:2008, Level 3)	V	10

Climatic environmental conditions

Operating ambient temperature (IEC 60068-2)	°C	
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Ambient temperature		°C	-25 - +60
Condensation			Take appropriate measures to prevent condensation
Storage	9	°C	-30 - +70
Relative humidity, non-condensing (IEC/EN 60068-2-30)		%	5 - 95

Design verification as per IEC/EN 61439

Technical data for design verification			
Static heat dissipation, non-current-dependent	P _{vs}	W	0.5
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			Meets the product standard's requirements.
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 8.0

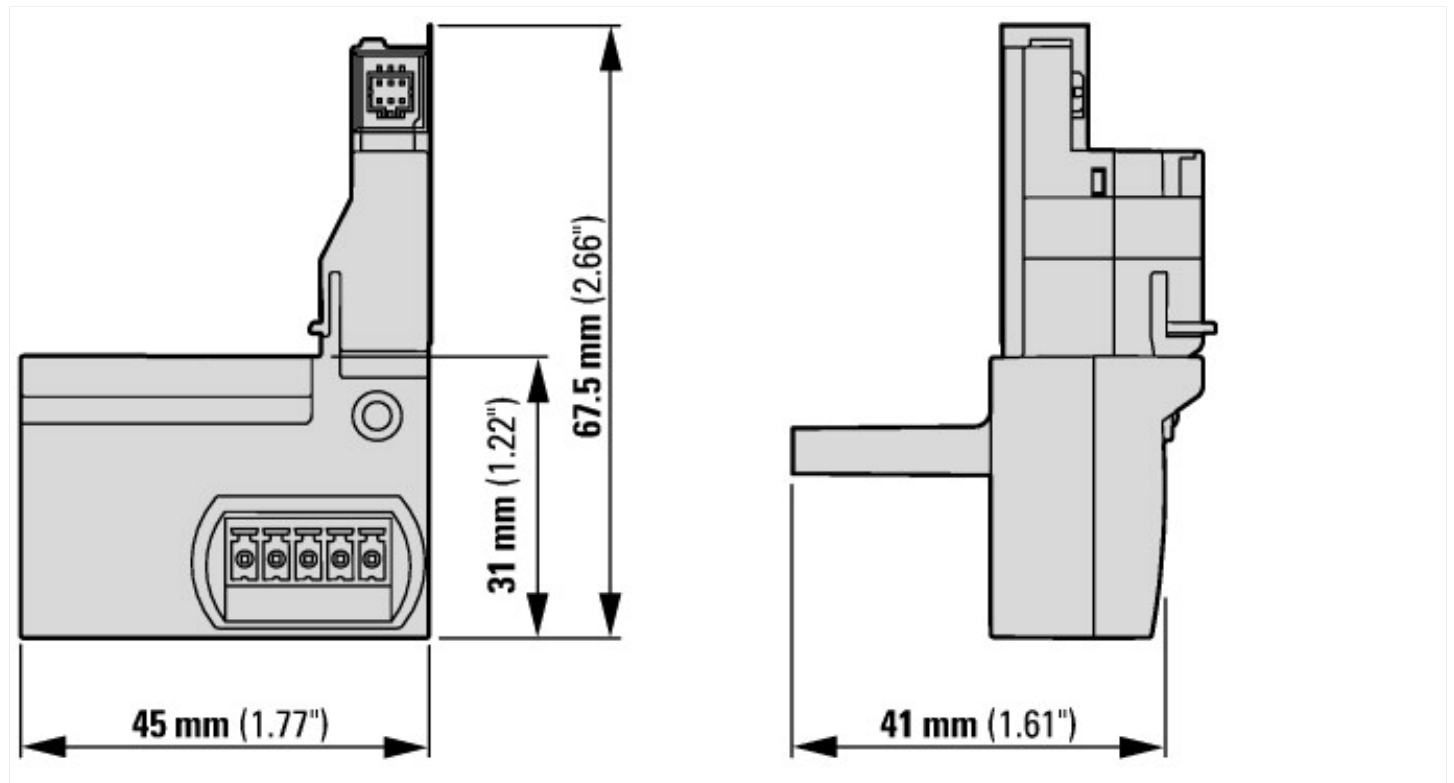
Programmable logic controllers PLC (EG000024) / Fieldbus, decentr. periphery - communication module (EC001604)			
Electric engineering, automation, process control engineering / Control / Field bus, decentralized peripheral / Field bus, decentralized peripheral - communications module (ecl@ss10.0.1-27-24-26-08 [BAA073013])			
Supply voltage AC 50 Hz		V	0 - 0
Supply voltage AC 60 Hz		V	0 - 0
Supply voltage DC		V	15 - 15
Voltage type of supply voltage			DC
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 KNX			No
Supporting protocol for Modbus			Yes
Supporting protocol for Data-Highway			No
Supporting protocol for DeviceNet			No
Supporting protocol for SUCONET			No

Supporting protocol for LON			No
Supporting protocol for SERCOS			No
Supporting protocol for PROFINET IO			No
Supporting protocol for PROFINET CBA			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
Radio standard Bluetooth			No
Radio standard Wi-Fi 802.11			No
Radio standard GPRS			No
Radio standard eGPRS			No
Radio standard GSM			No
Radio standard LTE			No
Radio standard UMTS			No
IO link master			No
System accessory			Yes
Degree of protection (IP)			IP20
With potential separation			Yes
Fieldbus connection over separate bus coupler possible			No
Rail mounting possible			No
Wall mounting/direct mounting			No
Front built-in possible			No
Rack-assembly possible			No
Suitable for safety functions			No
SIL according to IEC 61508			None
Performance level according to EN ISO 13849-1			None
Appendant operation agent (Ex ia)			No
Appendant operation agent (Ex ib)			No
Explosion safety category for gas			None
Explosion safety category for dust			None
Width		mm	67.5
Height		mm	65
Depth		mm	75

Approvals

Product Standards			UL508; CSA-C22.2 No. 14; IEC60947-4-1; CE marking
UL File No.			E36332
UL Category Control No.			NKCR
CSA File No.			165628
North America Certification			UL listed, CSA certified
Specially designed for North America			No

Dimensions



Additional product information (links)

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