



**Communication module, RJ45, Modbus TCP**

**Part no. PXR-ECAM-MTCP**  
**Catalog No. 195566**

**Delivery program**

Product range		Accessories
Accessories		Communications module
Standard/Approval		UL/CSA, IEC
Construction size		NZM...2(3)(4)-MX(VX)(PX)(PMX)... ; IZMX...
Description		For Fieldbus connection to the IZMX and NZM circuit breakers. The module is mounted externally near the circuit breaker. For connection to Modbus TCP. Cannot be used with the PXR10 NZM-AX electronic trip.
For use with		NZM2(3)(4)(-4)-VX(MX)(PX)(PMX) IZMX...

**Technical data**

**Kommunikation**

Type of the fieldbus interface		Modbus TCP / RJ45
Participant type		Slave
Kommunikationsparameter		
NZM connection		Pre-wired connection
Fieldbus connection		RJ45 Ethernet cable Cat6

**Supply connection**

Rated control voltage	$U_s$	V	
DC	$U_s$	V DC	24 - 24
Tolerance			+/- 20%
Power consumption	$P_{max.}$	W	6
Connection			
Connection type			With bolt connection
Stripping length		mm	7
Terminal capacity			
Solid		mm <sup>2</sup>	1 x (0.2 - 2.0)
Stranded		mm <sup>2</sup>	1 x (0.2 - 2.0)
with ferrule acc. to DIN46224 / 1		AWG	1 x (24 - 14)
with ferrule with plastic collar acc. to DIN46228 / 4		mm <sup>2</sup>	1 x (0,2 - 2,0)
with ferrule with plastic collar acc. to DIN46228 / 4		mm <sup>2</sup>	1 x (0,2 - 2,0)
Digital-Eingänge			
Quantity			3
Input current		mA	5
Power supply		V DC	24
Input impedance		kΩ	5
Connection			
Connection type			With bolt connection
Stripping length		mm	7
Terminal capacity			
Solid		mm <sup>2</sup>	1 x (0.2 - 2.0)
Stranded		mm <sup>2</sup>	1 x (0.2 - 2.0)
with ferrule acc. to DIN46224 / 1		AWG	1 x (24 - 14)
with ferrule with plastic collar acc. to DIN46228 / 4		mm <sup>2</sup>	1 x (0,2 - 2,0)
with ferrule with plastic collar acc. to DIN46228 / 4		mm <sup>2</sup>	1 x (0,2 - 2,0)

Relay outputs			
Number			2
Contact sequence			
Rated control voltage	$U_s$	V	
AC	$U_s$	V AC	220 - 240
DC	$U_s$	V DC	24 - 30
Contacts			
Overvoltage category/pollution degree			II/2
Switching capacity		$kA_{rms}$	
Rated operational current			
AC-1			
220V230V240V	$I_e$	A	2
DC-1			
24 V	$I_e$	A	2
Connection			
Connection type			With bolt connection
Stripping length		mm	7
Terminal capacity			
Solid		$mm^2$	1 x (0,2 - 2,0)
Stranded		$mm^2$	1 x (0,2 - 2,0)
		AWG	1 x (24 - 14)
with ferrule acc. to DIN46224 / 1		$mm^2$	1 x (0,2 - 2,0)
with ferrule with plastic collar acc. to DIN46228 / 4		$mm^2$	1 x (0,2 - 2,0)
Operating ambient temperature min.		°C	-20
Operating ambient temperature max.		°C	+ 70
Min. ambient temperature, storage		°C	- 45
Ambient temperature, storage max.		°C	+ 85

## Design verification as per IEC/EN 61439

Technical data for design verification			
Operating ambient temperature min.		°C	-20

Operating ambient temperature max.		°C	70
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) / Accessories for low-voltage switch technology (EC002498)		
Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Component for low-voltage switch technology (accessories) (ecl@ss10.0.1-27-37-13-92 [AKN570013])		
Type of accessory		Communication and measuring function