



**Electronic overcurrent protection for 24V DC, fix 10A with supply terminals**

**Part no. PXS24E-e10/F-IT**  
**Catalog No. PXS24E10A001**

Similar to illustration

## Delivery program

Basic function			Automation engineering 24V
Number of channels			1
Protection			Electronic
Rated current	$I_n$	A	10
Rated operating voltage	$U_n$	V	24
Standard/Approval			in Arbeit

## Technical data

### Electrical

Operational voltage	$U_B$		24 DC (16 .. 30V DC)
Rated operational current fix	$I_N$	A	10
Overload current and short-circuit current trip			Type 1.3 x $I_N$ with active current limitation
Trip time for electronic trip		ms	90
Capacitive loads		$\mu F$	Up to 20,000
Inductive loads		A	Up to 13

### Mechanical

Width		mm	17.5
Depth		mm	119.2
Terminals			
Input terminals			3x LINE (+) and 3x GND (-)
Output Terminals			3x LOAD (+) and 3x GND (-)
Terminal type:			Push in terminals
Terminal capacity		mm <sup>2</sup>	2.5 (flexible with ferrules) 4 (rigid)
Busbars			LINE (+) and GND (-); max 60A in various lengths of up to 1m
Mounting			snap-fit on mounting rail TH35 (EN 60715)
Status LED			Two-colored Green = OK; Red = Triggered OFF = Channel not in operation
Slide switch			On/Off/Reset
Text field		mm	17,5 x 6
Degree of Protection			IP20
Ambient temperature		°C	-30 - +55
Permissible storage and transport temperatures		°C	-40 - +100
Base dimension		mm	92.5

## Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	$I_n$	A	10
Equipment heat dissipation, current-dependent	$P_{vid}$	W	1.6
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

Relays (EG000019) / Current monitoring relay (EC001440)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Monitoring equipment (low-voltage switch technology) / Current monitoring equipment (ecl@ss10.0.1-27-37-18-02 [AKF096014])

Type of electric connection		Plug-in connection
With detachable clamps		No
Single-phase under current possible		No
Three-phase under current possible		No
Single-phase over current possible		No
Three-phase over current possible		No
Single-phase hysteresis possible		No
Three-phase hysteresis possible		No
Contains function DC-voltage under current		No
Contains function DC-voltage over current		Yes
Function DC-current hysteresis		No
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	16 - 30
Voltage type for actuating		DC
Current measurement range	A	0 - 13
Min. adjustable delay-on energization time	s	0
Max. permitted delay-on energization time	s	0
Min. adjustable off-delay time	s	0
Max. permitted off-delay time	s	0
Number of contacts as normally closed contact		0
Number of contacts as normally open contact		1
Number of contacts as change-over contact		0
External current transformer		No
Width	mm	18
Height	mm	93
Depth	mm	127