DATASHEET - PXS24E-E2/F-IT



Electronic overcurrent protection for 24V DC, fix 2A with supply terminals

FAT-N

Part no. PXS24E-e2/F-IT Catalog No. PXS24E02A001

Powering Business Worldwide

Delivery program

Basic function			Automation engineering 24V
Number of channels			1
Protection			Electronic
Rated current	In	Α	2
Rated operating voltage	Un	V	24
Standard/Approval			in Arbeit

Technical data

Electrical

Operational voltage	U_B		24 DC (16 30V DC)
Rated operational current fix	I _N	Α	2
Overload current and short-circuit current trip			Type 1.3 x I_N with active current limitation
Trip time for electronic trip		ms	470
Capacitive loads		μF	Up to 20,000
Inductive loads		Α	Up to 13

Mechanical A Up to 13 Mechanical Mode than 10 (Mith) Mode than 10 (Mith)	Supuriary issues	ļa.	op to 20,000
Width mm 17.5 Depth mm 19.2 Terminals xLINE (+) and 3x GND (-) Output Terminals 3x LOAD (+) and 3x GND (-) Terminal type: push in terminals Terminal capacity mm 2.5 (flexible with ferrules) 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 mm 17.5 x 6 Degree of Protection mm 17.5 x 6 Ambient temperature °C -30 - +55 Permissible storage and transport temperatures °C 40 - +100	Inductive loads	Α	Up to 13
Depth Terminals Input terminals Output Terminals Output Terminals Terminal type: Terminal capacity Busbars Mounting Status LED Status LED Side switch Text field Degree of Protection Ambient temperature Perminsible storage and transport temperatures Terminal capacity Input terminal sand SND (-) Sx LINE (+) and 3x GND (-) Sx LINE (+) and 3x GND (-) Push in terminals Sx LINE (+) and GND (-); max 60A in various lengths of up to 1m Sx LINE (+) and GND (-); max 60A in various lengths of up to 1m Two-colored Green = OK; Red = Triggered OFF = Channel not in operation Type of Protection Ambient temperature Text field Text f	Mechanical		
Terminals Input terminals Output Terminals Output Terminals Output Terminals Terminal type: Terminal capacity Mounting Status LED Side switch Text field Degree of Protection Ambient temperature Perminsible storage and transport temperatures Terminals 3x LINE (+) and 3x GND (-) 3x LOAD (+) and 3x GND (-) Push in terminals 1x LINE (+) and GND (-): max 60A in various lengths of up to 1m Push in terminals 1x LINE (+) and GND (-): max 60A in various lengths of up to 1m Push in terminals 1x LINE (+) and GND (-): max 60A in various lengths of up to 1m Push in terminals 1x Voc-colored Green = 0K; Red = Triggered OFF = Channel not in operation Providence	Width	mm	17.5
Input terminals Output Terminals Output Terminals Output Terminals Terminal type: Terminal capacity Busbars Mounting Status LED St	Depth	mm	119.2
Output Terminals Terminal type: Push in terminals Terminal capacity mm² 2.5 (flexible with ferrules) 4 (rigid) Busbars Mounting Status LED Status LED Stide switch Text field Degree of Protection Ambient temperature Permissible storage and transport temperatures Moutput Terminals 3x LOAD (+) and 3x GND (-) Push in terminals 3x LOAD (+) and 3x GND (-) Push in terminals 3x LOAD (+) and 3x GND (-) Push in terminals 3x LOAD (+) and 3x GND (-) Push in terminals 3x LOAD (+) and 3x GND (-) Push in terminals 3x LOAD (+) and 3x GND (-) Push in terminals 3x LOAD (+) and 3x GND (-) Push in terminals 3x LOAD (+) and 3x GND (-) Push in terminals 3x LOAD (+) and 3x GND (-) Push in terminals 3x LOAD (+) and 3x GND (-) Push in terminals 3x LOAD (+) and 3x GND (-) Push in terminals 3x LOAD (+) and 3x GND (-) Push in terminals 3x LOAD (+) and 3x GND (-) Push in terminals 3x LOAD (+) and 3x GND (-) Push in terminals 3x LOAD (+) and 3x GND (-) Push in terminals 3x LOAD (+) and 3x GND (-) Push in terminals 3x LOAD (+) and 3x GND (-) Push in terminals 3x LOAD (+) and 3x GND (-) Push in terminals 3x LOAD (+) and 3x GND (-) Push in terminals 4 (rigid) 5x Sides with ferrules) 5x Sides with ferrules 5x Sides with ferrules) 5x Sides with ferrules 6x Sides with ferrules 6x Sides with ferrules 6x Sides with ferrules 7x S	Terminals		
Terminal type: Terminal capacity Busbars Mounting Status LED Slide switch Text field Degree of Protection Ambient temperature Push in terminals At (rigid)	Input terminals		3x LINE (+) and 3x GND (-)
Terminal capacity Busbars Mounting Status LED Slide switch Text field Degree of Protection Ambient temperature Permissible storage and transport temperatures Missbars Missbars LINE (+) and GND (-); max 60A in various lengths of up to 1m LINE (+) and GND (-); max 60A in various lengths of up to 1m LINE (+) and GND (-); max 60A in various lengths of up to 1m INFO Colored Green = OK; Red = Triggered OFF = Channel not in operation On/Off/Reset Text field Minute (P2) - C - 30 - +55 - 40 - +100	Output Terminals		3x LOAD (+) and 3x GND (-)
Husbars Mounting Status LED Status LED Slide switch Text field Degree of Protection Ambient temperature Permissible storage and transport temperatures Ambient temperature Ambient temperatu	Terminal type:		Push in terminals
Mountingsnap-fit on mounting rail TH35 (EN 60715)Status LEDTwo-colored Green = 0K; Red = Triggered OFF = Channel not in operationSlide switchOn/Off/ResetText fieldmm17,5 x 6Degree of ProtectionIP20Ambient temperature°C-30 - +55Permissible storage and transport temperatures°C-40 - +100	Terminal capacity	mm²	
Status LED Status LED Slide switch Slide switch Text field Degree of Protection Ambient temperature Permissible storage and transport temperatures Tivo-colored Green = OK; Red = Triggered OFF = Channel not in operation On/Off/Reset 17,5 × 6 1P20 1P20 40 - +100	Busbars		LINE (+) and GND (-); max 60A in various lengths of up to 1m
Slide switch Slide switch Text field Degree of Protection Ambient temperature Permissible storage and transport temperatures Slide switch Slide switch On/Off/Reset	Mounting		snap-fit on mounting rail TH35 (EN 60715)
Text field mm 17,5 x 6 Degree of Protection 1P20 Ambient temperature $^{\circ}$ $^{\circ}$ $^{\circ}$ $^{\circ}$ -30 - +55 Permissible storage and transport temperatures $^{\circ}$ $^{\circ}$ $^{\circ}$ $^{\circ}$ -40 - +100	Status LED		Green = OK; Red = Triggered
Degree of Protection IP20 Ambient temperature °C -30 -+55 Permissible storage and transport temperatures °C -40 -+100	Slide switch		On/Off/Reset
Ambient temperature C -30 - +55 Permissible storage and transport temperatures C -40 - +100	Text field	mm	17,5 x 6
Permissible storage and transport temperatures °C -40 - +100	Degree of Protection		IP20
	Ambient temperature	°C	-30 - +55
Base dimension mm 92.5	Permissible storage and transport temperatures	°C	-40 - +100
	Base dimension	mm	92.5

Design verification as per IEC/EN 61439

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Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	2
Equipment heat dissipation, current-dependent	P_{vid}	W	0.4
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	Α	0 - 2.6
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