DATASHEET - PXS24E-E4/F

Electronic overcurrent protection for 24V DC, fix 4A w/o supply terminals

Part no. **PXS24E-e4/F**
PXS24E04A002

General specifications	
Product name	Eaton Moeller series xEffect - PXS24 current monitoring relay
Part no.	PXS24E-e4/F
EAN	9010238011304
Product Length/Depth	127 millimetre
Product height	93 millimetre
Product width	18 millimetre
Product weight	0.118 kilogram
Compliances	CE UL508 RoHS conform
Certifications	IEC 61373 EN45545-2
Product Tradename	xEffect - PXS24
Product Type	Current monitoring relay
Product Sub Type	None
Delivery program	
Type	Automation engineering 24V
Technical Data - Electrical	
Voltage type	DC
Voltage rating	24 VDC (15 VDC - 30 VDC)
Rated control supply voltage (Us) at AC, 50 Hz - min	0 V
Rated control supply voltage (Us) at AC, 50 Hz - max	0 V
Rated control supply voltage (Us) at AC, 60 Hz - min	0 V
Rated control supply voltage (Us) at AC, 60 Hz - max	0 V
Rated control supply voltage (Us) at DC - min	15 V
Rated control supply voltage (Us) at DC - max	30 V
Rated operational current (Ie) fix	4 A
Current measurement - min	0 A
Current measurement - max	5.2 A
Overload current and short-circuit current trip	Type 1.3 x IN with active current limitation
Electric connection type	Plug-in connection
Adjustable delay-on energization time - min	0 s
Permitted delay-on energization time - max	0 s
Adjustable off-delay time - min	0 s
Permitted off-delay time - max	0 s
Capacitive load	Up to 20,000 µF
Technical Data - Mechanical	
Mounting method	Snap-fit on DIN rail (EN 60715)
Degree of protection	IP20
Number of channels	1
Number of contacts (change-over contacts)	0
Number of contacts (normally closed contacts)	0
Number of contacts (normally open contacts)	1
Busbar type	LINE (+) and GND (-); max 60A in various lengths of up to 1m
Output terminals	3x LOAD (+) and 3x GND (-)
Terminal type	Push in terminals
Terminal capacity	4 mm^2 (rigid) 2.5 mm^2 (flexible with ferrules)
Design verification as per IEC/EN 61439 - technical data	

Rated operational current for specified heat dissipation (In)			4 A
Equipment heat dissipation, current-dependent			0.6 W
Ambient operating temperature details			-30° C - 55° C
Permitted storage and transport temperature - min			-40 °C
Permitted storage and transport temperature - max			100 °C
Design verification as per IEC/EN 61439			
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 Resist. of insul. mat. to abnormal heat/fire by internal elect. 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.
10.9.2 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.
Additional information			
Features			Green = OK; Red = Triggered Two-colored OFF = Channel not in operation
Functions			DC-voltage over current
Protection			Electronic
Special features			Inductive loads: up to 13 A On/Off/Reset
Text field type			17.5 mm x 6 mm

Technical data ETIM 9.0

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@ss13-27-37-18-02 [AKF096019])

Type of electric connection			Plug-in connection
With detachable clamps			No
External power supply required			No
Voltage type (supply voltage)			
Supply voltage AC 50 Hz		V	
Supply voltage AC 60 Hz		V	
Supply voltage DC		V	
Voltage measuring range		V	
Type of current			
Current measuring range		A	0 - 5.2
Response value amperage 1		A	
Response value amperage 2		A	
Single-phase under current possible			No

Three-phase under current possible		No
Single-phase overcurrent possible		No
Three-phase overcurrent possible		No
Single-phase hysteresis possible		No
Three-phase hysteresis possible		No
Contains function DC-voltage under current		No
Contains function DC-voltage overcurrent		Yes
Function DC-current hysteresis		No
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
External current transformer		No
Number of contacts as normally closed contact		0
Number of contacts as normally open contact		1
Number of contacts as change-over contact		0
Voltage type (operating voltage)		
Operating voltage AC 50 Hz	V	
Operating voltage AC 60 Hz	V	
Operating voltage DC	V	
Rated switch current	A	
Width	mm	18
Height	mm	93
Depth	mm	127