DATASHEET - PFR2-03-U



Earth-leakage circuit-breaker, 25A, 300mA, type U

Powering Business Worldwide

PFR2-03-U Part no. Catalog No. 235868 Alternate Catalog PFR2-03-U

Similar to illustration

Delivery program				
Basic function			Residual current relay	
Rated short-circuit strength	I _{cn}	kA	5	
Rated fault current	$I_{\Delta N}$	Α	0.3	
Туре			Type U	
Tripping		s	40 ms delay - selective switch off	
Product range			PFR2	

Pulse-current sensitive

Technical data Electrical

Sensitivity

Rated operational voltage	U _e	V	
	U _e	V AC	
Rated operating voltage	U _e	V AC	230/400
Rated frequency	f	Hz	50
Limit values of the operating voltage			
Test circuit		V AC	184 - 440
Sensitivity			Pulse-current sensitive
Rated impulse withstand voltage	U_{imp}	kV	4
Rated short-circuit strength	I _{cn}	kA	5
lifespan			
Electrical	Operations		≧ 4000
Mechanical	Operations		≧ 20000
References			

Auxiliary switch for subsequent installation	Z-HK 248432
Tripping signal contact for subsequent installation	Z-NHK 248434
Compact enclosure	KLV-TC-4 276241
Sealing cover set	Z-RC/AK-4TE 101062

ourning cover out		2 116/7 117 112 10 1002
Mechanical		
Standard front dimension	mm	45
Device height	mm	80
Built-in width	mm	70 (4TE)
Mounting		Quick attachment with 2 latch positions on top-hat rail IEC/EN 60715
Degree of Protection		IP20, IP40 with suitable enclosure
Terminals top and bottom		Twin-purpose terminals
Terminal protection		finger and hand touch safe, DGUV VS3, EN 50274
Terminal cross-section		
Solid	mm ²	1.5 - 35
Stranded	mm ²	2 x 16
Thickness of busbar material	mm	0.8 - 2
Permissible storage and transport temperatures	°C	-35 - +60
Climatic proofing		25-55°C/90-95% relative humidity according to IEC 60068-2

Design verification as per IEC/EN 61439

Technical data for design verification			
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Rated operational current for specified heat dissipation	In	Α	25
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	60
			Starting at 40 °C, the max. permissible continuous current decreases by 3% for every 1 °C
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

Circuit breakers and fuses (EG000020) / Residual current circuit breaker (RCCB) (EC000003)

Electric engineering, automation, process control engineering / Electrical installation, device / Residual current protection system / Residual current circuit breaker (RCCB)

(ecl@ss10.0.1-27-14-22-01 [AAB906014])				
Number of poles		0		
Rated voltage	V	400		
Rated current	Α	25		
Rated fault current	mA	300		
Rated insulation voltage Ui	V	440		
Rated impulse withstand voltage Uimp	kV	4		
Mounting method		DIN rail		
Leakage current type		A		
Selective protection		Yes		
Short-time delayed tripping		No		
Short-circuit breaking capacity (Icw)	kA	10		
Surge current capacity	kA	5		
Frequency		50 Hz		
Additional equipment possible		Yes		
With interlocking device		No		
Degree of protection (IP)		IP20		
Width in number of modular spacings		4		

Built-in depth	mm	69.5
Ambient temperature during operating	°C	-25 - 40
Pollution degree		2
Connectable conductor cross section multi-wired	mm²	1.5 - 16
Connectable conductor cross section solid-core	mm²	1.5 - 35