DATASHEET - PFIM-80/4/03-U



Residual current circuit-breaker, 80A, 4pole, 300mA, type U

Powering Business Worldwide*

Part no. Catalog No. PFIM-80/4/03-U 290221

EL-Nummer (Norway) 1609369

Similar to illustration

Delivery program

Delivery program			
Basic function			Residual current circuit-breakers
Number of poles			4 pole
Application			Residual current circuit-breaker - frequency converter-proof
Rated current	In	Α	80
Rated short-circuit strength	I _{cn}	kA	10
Rated fault current	$I_{\Delta N}$	Α	0.3
Туре			Type U
Tripping		s	selective switch off
Product range			PFIM
Sensitivity			pulse-current sensitive, suitable for variable frequency drives
Impulse withstand current			surge-proof 5 kA

Technical data

Electrical

Standards			IEC/EN 61008
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	196 - 456
Sensitivity			pulse-current sensitive, suitable for variable frequency drives
Rated insulation voltage	Ui	V	440
Rated impulse withstand voltage	U_{imp}	kV	4
Rated short-circuit strength	I _{cn}	kA	10
Rated making and breaking capacity / Rated residual making and breaking capacity	$I_m/I_{\Delta m}$	A	800
lifespan			
Electrical	Operations		≧ 4000
Mechanical	Operations		≧ 20000
References			

Z-NHK 248434
Z-FW/LP 248296
KLV-TC-4 276241
Z-RC/AK-4MU 101062
2

Mechanical

mm	45
mm	80
mm	70 (4TE)
	Quick attachment with 2 latch positions for DIN-rail IEC/EN 60715
	IP40, IP54 (with moisture-proof enclosure)
	Open mouthed/lift terminals
	DGUV VS3, EN 50274
	mm

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
Thickness of busbar material	mm	
Material thickness	mm	0.8 - 2

Design verification as per IEC/EN 61439

In	Α	80
P _{vid}	W	0
P _{vid}	W	11.4
P _{vs}	W	0
P _{diss}	W	0
	°C	-25
	°C	60
		Starting at 40 °C, the max. permissible continuous current decreases by 1.2% for every 1 °C
		Meets the product standard's requirements.
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		Does not apply, since the entire switchgear needs to be evaluated.
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		Is the panel builder's responsibility.
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		The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
		Is the panel builder's responsibility. The specifications for the switchgear must be observed.
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		The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
	P _{vid} P _{vid} P _{vs}	P _{vid} W P _{vid} W P _{vs} W P _{diss} W °C

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		4
Rated voltage	V	400
Rated current	Α	80
Rated fault current	mA	300

Rated insulation voltage Ui	V		440
Rated impulse withstand voltage Uimp	kV	V	4
Mounting method			DIN rail
Leakage current type			Other
Selective protection			Yes
Short-time delayed tripping			No
Short-circuit breaking capacity (Icw)	k.A	A	10
Surge current capacity	k.A	A	5
Frequency			50 Hz
Additional equipment possible			Yes
With interlocking device			Yes
Degree of protection (IP)			IP20
Width in number of modular spacings			4
Built-in depth	mı	nm	70.5
Ambient temperature during operating	°C	С	-25 - 40
Pollution degree			2
Connectable conductor cross section multi-wired	mı	nm²	1.5 - 16
Connectable conductor cross section solid-core	mı	nm²	1.5 - 35