## DATASHEET - PFIM-40/2/03-S-MW

Part no. Catalog No.



Residual current circuit breaker (RCCB), 40A, 2p, 300mA, type S

PFIM-40/2/03-S-MW 235461



Similar to illustration

Delivery program			
Basic function			Residual current circuit-breakers
Number of poles			2 pole
Application			Residual current circuit-breaker for residential and commercial applications
Rated current	In	Α	40
Rated short-circuit strength	I <sub>cn</sub>	kA	10
Rated fault current	$I_{\Delta N}$	Α	0.3
Туре			Type S
Tripping		s	selective switch off
Product range			PFIM
Sensitivity			AC current sensitive
Impulse withstand current			surge-proof 5 kA

## **Technical data**

ec		

		IEC/EN 61008
U <sub>e</sub>	V	
U <sub>e</sub>	V AC	
U <sub>e</sub>	V AC	230
f	Hz	50
	V AC	196 - 264
		AC current sensitive
$U_{i}$	V	440
$U_{imp}$	kV	4
I <sub>cn</sub>	kA	10
$I_m/I_{\Delta m}$	Α	500
Operations		≧ 4000
Operations		≧ 20000
		Z-HK 248432
		Z-NHK 248434
		Z-FW/LP 248296
		KLV-TC-2 276240
		Z-RC/AK-2MU 285385
	mm	45
	mm	80
	mm	35 (2TE)
		Quick attachment with 2 latch positions for DIN-rail IEC/EN 60715
		IP20, IP40 with suitable enclosure
		Open mouthed/lift terminals
		DGUV VS3, EN 50274
	$U_e$ $U_e$ $f$ $U_i$ $U_{imp}$ $I_{cn}$ $I_m/I_{\Delta m}$ $Operations$	U <sub>e</sub> V AC U <sub>e</sub> V AC f Hz  V AC  U <sub>i</sub> V U <sub>imp</sub> kV I <sub>cn</sub> kA I <sub>m</sub> /I <sub>Δm</sub> A  Operations Operations  mm mm

Solid	$mm^2$	1.5 - 35
Stranded	mm <sup>2</sup>	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** 

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	40
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	5.4
Static heat dissipation, non-current-dependent	P <sub>vs</sub>	W	0
Heat dissipation capacity	P <sub>diss</sub>	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 2.5% for every 1 °C
EC/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 hear and fire due to internal electric effects	t		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		2	
Rated voltage	V	230	
Rated current	Α	40	
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		AC
Selective protection		Yes
Short-time delayed tripping		No
Short-circuit breaking capacity (Icw)	kA	10
Surge current capacity	kA	A 5
Frequency		50 Hz
Additional equipment possible		Yes
With interlocking device		Yes
Degree of protection (IP)		IP20
Width in number of modular spacings		2
Built-in depth	mm	m 70.5
Ambient temperature during operating	°C	-25 - 40
Pollution degree		2
Connectable conductor cross section multi-wired	mm	m <sup>2</sup> 1.5 - 16
Connectable conductor cross section solid-core	mm	m <sup>2</sup> 1.5 - 35