

Part no.

Article no.

Residual current circuit breaker (RCCB), 40A, 2 p, 30mA, type $\mbox{G/F}$

PFIM-40/2/003-G/F 187450



Similar to illustration

		gramme

lumber of poles splication In A 40 stated current In A 40 stated short-circuit strength In A 40 stated fault current In A 40 In A				
Switchgear for residential and commercial applications lated current In A 40 lated short-circuit strength lated fault current In A 40 lowith back-up fuse lated fault current In A 40 lowith back-up fuse In A 50 In A 60 In A	Basic function			Residual current circuit breakers
Lated current In A 40 Auted short-circuit strength In I	Number of poles			2 pole
tated short-circuit strength Icn Icn KA 10 with back-up fuse 0.03 Typ G/F (ÖVE E 8601) Typ G/F (ÖVE E 8601) A Short time-delayed PFIM-F Iensitivity In pulse-current sensitive - frequency composition (10 Hz, 50 Hz, 1000 Hz)	Application			Switchgear for residential and commercial applications
A Double of the sensitivity A Double of the sensitivity A Double of the sensitive of the	Rated current	In	Α	40
Typ G/F (ÖVE E 8601) A Short time-delayed PFIM-F rensitivity pulse-current sensitive - frequency composition (10 Hz, 50 Hz, 1000 Hz)	Rated short-circuit strength	I _{cn}	kA	10 with back-up fuse
ripping A Short time-delayed roduct range PFIM-F rensitivity pulse-current sensitive - frequency composition (10 Hz, 50 Hz, 1000 Hz)	Rated fault current	$I_{\Delta N}$	Α	0.03
PFIM-F rensitivity pulse-current sensitive - frequency composition (10 Hz, 50 Hz, 1000 Hz)	Туре			Typ G/F (ÖVE E 8601)
ensitivity pulse-current sensitive - frequency composition (10 Hz, 50 Hz, 1000 Hz)	Tripping		Α	Short time-delayed
	Product range			PFIM-F
npulse withstand current Surge-proof, 3 kA	Sensitivity			pulse-current sensitive - frequency composition (10 Hz, 50 Hz, 1000 Hz)
	Impulse withstand current			Surge-proof, 3 kA

Technical data

Electrical

Liecuicai			
Types conform to			IEC/EN 62423
Current test marks			As per inscription
Rated operating voltage	U_n	V AC	230
Rated frequency	f	Hz	50
Limit values of the operating voltage			
Test circuit		V AC	196 - 264
Rated frequency	f	Hz	50
Sensitivity			pulse-current sensitive - frequency composition (10 Hz, 50 Hz, 1000 Hz)
Rated insulation voltage	Ui	V	440
Rated impulse withstand voltage	U_{imp}	kV	4 (1.2/50µs)
Rated short-circuit strength	I _{cn}	kA	10 with back-up fuse
Max. admissible back-up fuse			
Short-circuit	gG/gL	Α	63
Overload	gG/gL	Α	25
Rated making and breaking capacity / Rated residual making and breaking capacity	$I_m/I_{\Delta m}$	Α	500
lifespan			
Electrical			n <u>≦≃</u> ₂₀₀₀
Mechanical		Operation	n\$ <u>≥</u> 10000
Mechanical			

We change at the		
Standard front dimension	mm	45
Device height	mm	80
Built-in width	mm	35 (2TE)
Mounting		Quick attachment with 2 latch positions for DIN-rail IEC/EN 60715
Degree of Protection		IP20 switches IP 40 enclosed
Terminals top and bottom		Twin-purpose terminals
Terminal protection		Busbar tag shroud to BGV A3, ÖVE-EN 6
Terminal cross-section		
Solid	mm ²	1.5 - 35

Stranded	mm ²	2 x 16
Terminal cross-section		M5 (with cross-recessed screw as defined in EN ISO 4757-Z2, Pozidriv PZ2)
Tightening torque of fixing screws	N/m	2 - 2.4
Thickness of busbar material	mm	0.8 - 2
Admissible ambient temperature range	°C	-25 - +40
Permissible storage and transport temperatures	°C	-35 - +60
Climatic proofing		according to IEC/EN 61008
Mounting position		As required
Contact position indicator		red / green

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	40
Equipment heat dissipation, current-dependent	P _{vid}	W	7.8
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 6.0

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@ss8.1-27-14-22-01 [AAB906011])					
Number of poles 2					
Nominal rated voltage	V	/	230		
Nominal rated current	A	4	40		
Rated fault current	А	4	0.03		
Mounting method			DIN rail		
Leakage current type			-		
Selective protection			No		
Short-circuit breaking capacity (Icw)	k	×Α	10		
Surge current capacity	k	Α	3		

Frequency		50 Hz
Additional equipment possible		Yes
Degree of protection (IP)		IP20
Construction size (in accordance with DIN 43880)		1
Width in number of modular spacings		2
Built-in depth	mm	70.5
Short-time delayed tripping		Yes