DATASHEET - PFIM-63/4/05-A-MW



Residual current circuit breaker (RCCB), 63A, 4p, 500mA, type A

Powering Business Worldwide*

Part no. PFIM-63/4/05-A-MW Catalog No. 235446

Similar to illustration

Delivery program			
Basic function			Residual current circuit-breakers
Number of poles			4 pole
Application			Residual current circuit-breaker for residential and commercial applications
Rated current	In	Α	63
Rated short-circuit strength	I _{cn}	kA	10
Rated fault current	$I_{\Delta N}$	Α	0.5
Туре			Type A
Tripping		s	non-delayed
Product range			PFIM
Sensitivity			Pulse-current sensitive
Impulse withstand current			Partly surge-proof 250 A

Technical data

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Rated operating voltage Rated frequency Fact circuit Test circuit Rated insulation voltage Rated short-circuit strength Rated short-cir				IEC/EN 61008
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tifespan Electrical Mechanical Operations Electrical Mechanical Operations Electrical Operations Operations Electrical Operations Operations Electrical	cuit strength I _C	cn	kA	10
Electrical Operations ≥ 4000 Mechanical Operations ≥ 20000 References Sealing cover set Z-HK 248432 Compact enclosure Z-FW/LP 248296 Compact enclosure KLV-TC-4 276241 Sealing cover set Z-RC/AK-4MU 101062 Mechanical Z-RC/AK-4MU 101062 Mechanical mm 8 Standard front dimension mm 8 Device height mm 80 Built-in width mm 70 (4TE) Mounting mm 70 (4TE) Degree of Protection protection 1P40, IP54 (with moisture-proof enclosure) Terminals top and bottom Open mouthed/lift terminals Terminal protection Degree of Protection Degree of Protection Terminal cross-section Degree of Protection Degree of Protection	nd breaking capacity / Rated residual making and breaking $I_{\rm m}$	m/I _{Δm}	А	630
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Terminal protection DGUV VS3, EN 50274 Terminal cross-section	ction			IP40, IP54 (with moisture-proof enclosure)
Terminal cross-section	nd bottom			Open mouthed/lift terminals
	tion			DGUV VS3, EN 50274
	section			
Solid mm ² 1.5 - 35			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

Design vermeation as per 120/214 01-05			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	63
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	10.5
Static heat dissipation, non-current-dependent	P _{vs}	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 1.8% 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])

(ecl@ss10.0.1-27-14-22-01 [AAB906014])	,	, , , ,
Number of poles		4
Rated voltage	V	400
Rated current	Α	63
Rated fault current	mA	500
Rated insulation voltage Ui	V	440

Rated impulse withstand voltage Uimp	kV	4
Mounting method		DIN rail
Leakage current type		A
Selective protection		No
Short-time delayed tripping		No
Short-circuit breaking capacity (Icw)	kA	10
Surge current capacity	kA	0.25
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	mm	70.5
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