DATASHEET - PFIM-40/4/003-G-MW



Residual current circuit breaker (RCCB), 40A, 4p, 30mA, type G

Part no. Catalog No. PFIM-40/4/003-G-MW 235453



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	I _n	А	40
Rated short-circuit strength	I _{cn}	kA	10
Rated fault current	$I_{\Delta N}$	А	0.03
Туре			Type G (ÖVE E 8601)
Tripping		s	Short time-delayed
Product range			PFIM
Sensitivity			AC current sensitive
Impulse withstand current			Surge-proof, 3 kA

Technical data Electrical

Auxiliary switch for subsequent installationImage: Provide the subsequent installationProvide the subsequent install	Electrical			
Image: space s	Standards			IEC/EN 61008
Red operating voltageVec8/4009/400Rated frequencyFFFTark values of the operating voltageFFFTark values of the operating voltageFFFTark values of the operating voltageFFFTark values of the operating voltageFFFSensitiviVecFFFRated insulation voltageVecFFFRated insultage operating voltageVecFFFRated short ciculi strengthVecFFFRated short ciculi strengthFFFFRated short ciculi st	Rated operational voltage	U _e	V	
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Test circuit PAC Ps - 24 Comment for range of the test button Aphase application without N (400V AC Phase-Phase) not allowed Sensitivity Current sensitive Rated insulation voltage Un V Rated short-circuit strength Vn V Rated short-circuit strength Vn Vn Rated short-circuit strength Vn Vn Rated short-circuit strength Vn Vn Vn Restore concluston Vn Vn Vn Restore concluston strength stallation Vn Vn Vn Restore concluston strength stallation Vn Vn Vn Vn Restore concluston streng tircuit strength stallation Vn	Rated frequency	f	Hz	50
Comment for range of the test buttomImagePalaes application without N (4000 AC Phase)-Phase) not allowedSensitivityVA current ensitiveRated insulation voltageV_I4Rated insulation voltageV_I4Rated insulation voltageV_I4Rated mixing and breaking capacity / Rated residual making and break	Limit values of the operating voltage			
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Name Number Numer Numer Numer	Comment for range of the test button			3-phase application without N (400V AC Phase-Phase) not allowed
Retainpulse withstand voltage Muno Kuno Acconnection Retainpulse withstand voltage Inpano Kano Galacaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa	Sensitivity			AC current sensitive
Rete denor-circuit strength In IA IA <t< td=""><td>Rated insulation voltage</td><td>Ui</td><td>V</td><td>440</td></t<>	Rated insulation voltage	Ui	V	440
Red main and reaking capacity / Rated residual making and breaking capacity Imp / Imm	Rated impulse withstand voltage	U _{imp}	kV	4
capacity	Rated short-circuit strength	I _{cn}	kA	10
Identical Operations Parations <		$I_m / I_{\Delta m}$	А	500
Mechanical Operations 2000 References File File </td <td>lifespan</td> <td></td> <td></td> <td></td>	lifespan			
References Auxiliary switch for subsequent installation Image: Status of Sta	Electrical	Operations		≧ 4000
Auxiliary switch for subsequent installationImage: Provide the subsequent installationProvide the subsequent install	Mechanical	Operations		≧ 20000
Tripping signal contact for subsequent installation Image: Participant of the subsequent installation Image: Participant of the subsequent installation Renote control and automatic switching device Image: Participant of the subsequent installation Image: Participant of the subsequent installation Compact enclosure Image: Participant of the subsequent installation Image: Participant of the subsequent installation Sealing cover set Image: Participant of the subsequent installation Image: Participant of the subsequent installation Sealing cover set Image: Participant of the subsequent installation Image: Participant of the subsequent installation Mechanical Image: Participant of the subsequent installation Image: Participant of the subsequent installation Standard front dimension Image: Participant of the subsequent installation Image: Participant of the subsequent installation Standard front dimension Image: Participant of the subsequent installation Image: Participant of the subsequent installation Standard front dimension Image: Participant of the subsequent installation Image: Participant of the subsequent installation Standard front dimension Image: Participant of the subsequent installation Image: Participant of the subsequent installation Standard front dimension Image: Participant of the subsequent installation Image: Participant of the subsequent installation Standard front dimension Image: Pa	References			
Remote control and automatic switching device F Z-FW/LP 248296 Compact enclosure KU-TC-4 276241 Sealing cover set Z-R/AK-4MU 101062 Mechanical T Standard front dimension mm 8 Device height mm 8 Built-in width 0 1 Mounting 014TE 104TE Degree of Protection Mm 104TE Terminals top and bottom Sealon 104TE Terminals top and bottom Sealon 104TE	Auxiliary switch for subsequent installation			Z-HK 248432
Compact enclosure KL-TC-4 276241 Sealing cover set	Tripping signal contact for subsequent installation			Z-NHK 248434
Sealing cover set PRC/AK-4MU 101062 Mechanical Provide set Standard front dimension Mmm Device height Mmm Built-in width Mmm Mounting Mmm Degree of Protection Mmm Terminals top and bottom Mmm Terminal protection Mmm Mounting Multi-in width Terminals top and bottom Mmmm Terminals top and bottom Mmmmm Terminal protection Mmmmmm Multi-in width Multi-in width Multi-in width Mmmmmm Mounting Mmmmmmm Multi-in width Mice Antrachment with 2 latch positions for DIN-rail IEC/EN 60715 Multi-in width Mice Antrachment with 2 latch positions for DIN-rail IEC/EN 60715 Multi-in width Mice Antrachment with 2 latch positions for DIN-rail IEC/EN 60715 Multi-in width Mice Antrachment with 2 latch positions for DIN-rail IEC/EN 60715 Multi-in width Mice Antrachment with 2 latch positions for DIN-rail IEC/EN 60715 Multi-in width Mice Antrachment with 2 latch positions for DIN-rail IEC/EN 60715	Remote control and automatic switching device			Z-FW/LP 248296
Mechanical Standard front dimension mm 45 Device height mm 80 Built-in width mm 70 (4TE) Mounting Mick attachment with 2 latch positions for DIN-rail IEC/EN 60715 Degree of Protection Media for the minals top and bottom Period for the minals top and bottom Terminal protection Generation Degree for the minals	Compact enclosure			KLV-TC-4 276241
Standard front dimension mm 45 Device height mm 80 Built-in width mm 70 (4TE) Mounting Mound for the standard for the st	Sealing cover set			Z-RC/AK-4MU 101062
Device height mm Bold Built-in width mm 70 (4TE) Mounting Mm Juick attachment with 2 latch positions for DIN-rail IEC/EN 60715 Degree of Protection P40, IP54 (with moisture-proof enclosure) Terminals top and bottom Part of the minals Degree of Protection Gene mouthed/lift terminals	Mechanical			
Built-in width mm 70 (4TE) Mounting Degree of Protection Calce Calce Attachment with 2 latch positions for DIN-rail IEC/EN 60715 Terminals top and bottom For mouthed/lift terminals Open mouthed/lift terminals Terminal protection Calce Attachment with 2 latch positions for DIN-rail IEC/EN 60715	Standard front dimension		mm	45
Mounting Quick attachment with 2 latch positions for DIN-rail IEC/EN 60715 Degree of Protection IP40, IP54 (with moisture-proof enclosure) Terminals top and bottom Open mouthed/lift terminals Terminal protection GOUV VS3, EN 50274	Device height		mm	80
Degree of Protection IP40, IP54 (with moisture-proof enclosure) Terminals top and bottom Open mouthed/lift terminals Terminal protection IP40, IP54 (with moisture-proof enclosure)	Built-in width		mm	70 (4TE)
Terminals top and bottom Open mouthed/lift terminals Terminal protection DGUV VS3, EN 50274	Mounting			Quick attachment with 2 latch positions for DIN-rail IEC/EN 60715
Terminal protection DGUV VS3, EN 50274	Degree of Protection			IP40, IP54 (with moisture-proof enclosure)
	Terminals top and bottom			Open mouthed/lift terminals
Terminal cross-section	Terminal protection			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
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	I _n	A	40
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	w	9.6
Static heat dissipation, non-current-dependent	P _{vs}	w	0
Heat dissipation capacity	P _{diss}	w	0
Operating ambient temperature min.	· uiss	°C	-25
Operating ambient temperature max.		°C	60
		U	Starting at 40 °C, the max. permissible continuous current decreases by 2.5% 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) (EC00003)

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

 Number of poles
 4

 Rated voltage
 V
 400

 Rated fault current
 mA
 30

Rated insulation voltage Ui	V	440
Rated impulse withstand voltage Uimp	kV	4
Mounting method		DIN rail
Leakage current type		AC
Selective protection		No
Short-time delayed tripping		Yes
Short-circuit breaking capacity (Icw)	kA	10
Surge current capacity	kA	3
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