DATASHEET - PFGM-63/2/003



Residual current circuit breaker (RCCB), 63A, 2pole, 30mA, type AC



PFGM-63/2/003 264286



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	А	63
Rated short-circuit strength	I _{cn}	kA	10
Rated fault current	$I_{\Delta N}$	А	0.03
Туре			Туре АС
Tripping		s	non-delayed
Product range			PFGM
Sensitivity			AC current sensitive
Impulse withstand current			Partly surge-proof 250 A

Technical data

Rated short-circuit strength In KA In Rated making and breaking capacity/ Rated residual making and breaking capacity M/Lm A S Itespan M M M M Itespan Operations 4000 200000 20000 20000 20000 20000 20000 20000 200000 200000 200000 200000 200000 200000 200000 200000 200000 200000 200000 200000 2000000 2000000 2000000	Electrical			
Ret operating voltage Number of the spectrating voltage	Types conform to			IEC/EN 61008
Image: sector of the sector	Standards			IEC/EN 61008
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Rel draqueryfHz9I values of the operating voltageIIIText circuitVIIIRel dragueryVIIIRel dragueryVVIIRel dragueryVVII <t< td=""><td></td><td>Ue</td><td>V AC</td><td></td></t<>		Ue	V AC	
Link values of the operating voltageImage: space spac	Rated operating voltage	Ue	V AC	230
Test circuitVAC No8-24SensitivityCurrent sensitiveRated insulation voltageUV4Rated insulation voltageUmpKM4Rated insulation voltageInKM1Rated short-circuit strengthInKM1Rated making and breaking capacity / Rated residual making and breakingIn/lamARated making and breaking capacity / Rated residual making and breakingIn/lamARated making and breaking capacity / Rated residual making and breakingIn/lamBRated making and breaking capacity / Rated residual making and breakingIn/lamBRated making and breaking capacity / Rated residual making and breakingIn/lamBRated making and breaking capacity / Rated residual making and breakingIn/lamBRated making and breaking capacity / Rated residual making and breakingIn/lamBRated making and breaking capacity / Rated residual making and breakingIn/lamBRated making and breaking capacity / Rated residual making and breakingIn/lamBRated making capacity / Rated residual making and breakingIn/lamIn/lamBRated making capacity / Rated residual making and breakingIn/lamIn/lamIn/lamRated making capacity / Rated residual making and breakingIn/lamIn/lamIn/lamRated making capacity / Rated residual making and breakingIn/lamIn/lamIn/lamRated making capacity / Rated residual making and breakingIn/lamIn/lamIn/lam<	Rated frequency	f	Hz	50
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Name No No No No Red mislation voltage Ump Ka Acconconconconconconconconconconconconcon	Test circuit		V AC	196 - 264
Retainpulse withstand voltageJumpKVAReta day circuity regretInInInRetar having and breaking capacity / Rated residual making and breakingIn InInInItespaInInInInItespaInInInInInItespaInInInInInMechanicalInInInInInRetarcasInInInInInRetarcasInInInInInRetarcasInInInInInRetarcasInInInInInRetarcasInInInInInRetarcasInInInInInRetarcasInInInInInRetarcasInInInInInRetarcasInInInInInRetarcasInInInInInRetarcasInInInInInRetarcasInInInInInRetarcasInInInInInRetarcasInInInInInRetarcasInInInInInRetarcasInInInInInRetarcasInInInInInRetarcasInInInInIn	Sensitivity			AC current sensitive
Rate dom-circuit strength Icn IA Id Rated making and breaking capacity/ Rated residual making and breaking capacity/ Rated residual making and breaking infeson In/Ian In/Ian<	Rated insulation voltage	Ui	V	440
Rada data data data data data data data	Rated impulse withstand voltage	U _{imp}	kV	4
capacity and any of the second s	Rated short-circuit strength	I _{cn}	kA	10
Indexind Operations 400 Mechanical Operations 2000 References 2000 2000 References Fix 248432 2000 Tripping signal contact for subsequent installation Image: Signal Contact for subsequent installation Image: Signal Contact for subsequent installation Fix 248432 Rende control and automatic switching device Fix 248434 2000 Compact enclosure Fix 248296 KU-UT-C 276240 Switching interlock Six 2F-11E 101911 Six 2F-11E 101911 Sealing cover set Six 2F-11E 101911 Six 2F-11E 101911 Sealing cover set Six 2F-11E 101911 Six 2F-11E 101911 Sealing cover set Six 2F-11E 101911 Six 2F-11E 10191 Sealing cover set Six 2F-11E 10191 Six 2F-11E 10191 Sealing cover set Six 2F-11E 10191 Six 2F-11E 10191 Sealing cover set Six 2F-11E 10191 Six 2F-11E 10191 Sealing cover set Six 2F-11E 10191 Six 2F-11E 10191 Sealing cover set Six 2F-11E 10191 Six 2F-11E 10191 Sealing cover set Six 2F-	Rated making and breaking capacity / Rated residual making and breaking capacity	$I_m / I_{\Delta m}$	A	630
Mechanical Operations 2000 References	lifespan			
References Auxiliary switch for subsequent installation Image: Status installation Tripping signal contact for subsequent installation Image: Status installation Remote control and automatic switching device Image: Status installation Compact enclosure Image: Status installation Switching interlock Image: Status installation Status interlock Image: Status installation Mechanical Image: Status installation Protechnical Image: Status installation Status installation Image: Status installation Built-in width Image: Status installation Mounting Image: Status installation Degree of Protection Image: Status installation	Electrical	Operations		≧ 4000
Auxiliary switch for subsequent installationImage: Base of the subsequent installationZ-HK 248432Tripping signal contact for subsequent installationZ-WK 248434Remote control and automatic switching deviceZ-WK 248296Compact enclosureKLV-TC-2 276240Switching interlockSSPE-1TE 101911Sealing cover setZ-K/K-ZTE 285385MechanicalTo Sandard front dimensionDevice heightMBuilt-in widthMMuntingS12TE)Degree of ProtectionMDevice for the subsequent installationMDevice for the subsequent installationMMuntingS12TE)Degree of ProtectionMDevice for the subsequent installationMMuntingMDegree of ProtectionMMuntingMDegree of ProtectionMMuntingM </td <td>Mechanical</td> <td>Operations</td> <td></td> <td>≧ 20000</td>	Mechanical	Operations		≧ 20000
Triping signal contact for subsequent installation Image: Subsequent installation Z-NHK 248434 Remote control and automatic switching device Z-FW/LP 248296 Compact enclosure KU-TC-2 276240 Switching interlock Si/SPE-1TE 101911 Sealing cover set Z-RC/AK-ZTE 285385 Mechanical mm Standard front dimension mm Buit-in width So (ZTE) Mounting So (ZTE) Mounting Lick attachment with 2 latch positions for DIN-rail IEC/EN 60715 Pagee of Protection Lick attachment with 2 latch positions for DIN-rail IEC/EN 60715	References			
Remote control and automatic switching devicePerformanRemote control and automatic switching deviceFW/LP 248296Compact enclosureKU-TC-2 276240Switching interlockISSPE-ITE 101911Sealing cover set-RC/AK-2TE 285385Mechanical-Standard front dimensionmmPevice heightMontrigBuit-in width-Mounting-Degree of Protection-Image: Sealing cover set-Standard front dimension-Standard front dimension-Standard front dimension-Buit-in width-Buit-in width-Mounting-Degree of Protection-Standard front Contract-Standard front dimension-Standard	Auxiliary switch for subsequent installation			Z-HK 248432
Compact enclosureKLV-TC-2 276240Switching interlockS/SPE-1TE 101911Sealing cover setZ-RC/AK-2TE 285385MechanicalTStandard front dimensionmmDevice heightMmBuilt-in widthS (2TE)MountingMick attachment with 2 latch positions for DIN-rail IEC/EN 60715Degree of ProtectionMick attachment of Suitable enclosure	Tripping signal contact for subsequent installation			Z-NHK 248434
Switching interlockIS/SPE-TE 101911Sealing cover setZ-RC/AK-ZTE 285385MechanicalTStandard front dimensionmmDevice heightmmBuilt-in widthMmmMountingS1 (ZTE)Degree of ProtectionMmStandard Front ComponentS1 (ZTE)Degree of ProtectionMmStandard Front ComponentS1 (ZTE)Standard Front ComponentS1 (ZTE) <tr< td=""><td>Remote control and automatic switching device</td><td></td><td></td><td>Z-FW/LP 248296</td></tr<>	Remote control and automatic switching device			Z-FW/LP 248296
Sealing cover set Z-RC/AK-2TE 285385 Mechanical Standard front dimension mm Device height mm Built-in width mm Mounting Mm Degree of Protection Mm	Compact enclosure			KLV-TC-2 276240
Mechanical Standard front dimension mm 45 Device height mm 80 Built-in width mm 35 (2TE) Mounting Guick attachment with 2 latch positions for DIN-rail IEC/EN 60715 Degree of Protection Median	Switching interlock			IS/SPE-1TE 101911
Standard front dimensionmm45Device heightmm80Built-in widthmm35 (2TE)MountingMmGuick attachment with 2 latch positions for DIN-rail IEC/EN 60715Degree of ProtectionMm1920, IP40 with suitable enclosure	Sealing cover set			Z-RC/AK-2TE 285385
Device height mm 8 Built-in width mm 55 (2TE) Mounting Lock attachment with 2 latch positions for DIN-rail IEC/EN 60715 Degree of Protection P20, IP40 with suitable enclosure	Mechanical			
Built-in widthmm35 (2TE)MountingCuick attachment with 2 latch positions for DIN-rail IEC/EN 60715Degree of ProtectionImmImmDegree of	Standard front dimension		mm	45
Mounting Quick attachment with 2 latch positions for DIN-rail IEC/EN 60715 Degree of Protection IP20, IP40 with suitable enclosure	Device height		mm	80
Degree of Protection IP20, IP40 with suitable enclosure	Built-in width		mm	35 (2TE)
	Mounting			Quick attachment with 2 latch positions for DIN-rail IEC/EN 60715
Terminals top and bottom Open mouthed/lift terminals	Degree of Protection			IP20, IP40 with suitable enclosure
	Terminals top and bottom			Open mouthed/lift terminals

Terminal protection		BGV A3, ÖVE-EN 6
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	In	А	63
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	9.7
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])				
Number of poles			2	
Rated voltage		V	230	

Rated current	А	63
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		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		2
Built-in depth	mm	69.5
Ambient temperature during operating	°C	-25 - 60
Pollution degree		2
Connectable conductor cross section multi-wired	mm²	1.5 - 16
Connectable conductor cross section solid-core	mm²	1.5 - 35