DATASHEET - PBSM-632/003-MW



Residual-current circuit breaker trip block for PLS. 63A, 2 p, 30mA, type ΔC



Part no. PBSM-632/003-MW Catalog No. 262426

Similar to illustration

Delivery program			
Basic function			Add-on residual current protection unit
Number of poles			2 pole
Application			Switchgear for residential and commercial applications
Rated current	In	Α	63
Rated short-circuit strength	I _{cn}	kA	same as connected PLS up to max. 10
Rated fault current	$I_{\Delta N}$	Α	0.03
Туре			Type AC
Tripping		s	non-delayed
Product range			PBSM
Sensitivity			AC current sensitive
Impulse withstand current			Partly surge-proof 250 A

Technical data

ectric	

Rated frequency	f	Hz	50
Sensitivity			AC current sensitive
Rated current	In	Α	63
Rated impulse withstand voltage	U_{imp}	kV	4
lifespan			
Electrical	Operations		≧ 4000
Mechanical	Operations		≧ 20000
Mechanical			
Standard front dimension		mm	45
Device height		mm	90
Built-in width		mm	35 (2TE)
Mounting			fix mounted onto PLS
Degree of Protection			IP40, IP54 (with moisture-proof enclosure)
Terminals top and bottom			Lift terminals
Terminal protection			BGV A3, ÖVE-EN 6
Thickness of busbar material		mm	0.8 - 2

°C

 $25\text{-}55^{\circ}\text{C}/90\text{-}95\%$ relative humidity according to IEC 60068-2

Design verification as per IEC/EN 61439

Permissible storage and transport temperatures

Climatic proofing

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	17
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	40
			Starting at 40 °C, the max. permissible continuous current decreases by 3% 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. Eato provide heat dissipation data for the devices.
10.11 Short-circuit rating	Is the panel builder's responsibility. The specifications for the switchgear observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instru 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])

Rated voltage V 330 Rated current A 63 Rated fault current mA 30 Rated insulation voltage Ui V 440 Rated impulse withstand voltage Uimp kV 4 Mounting method Leakage current type AC Selective protection No No Short-time delayed tripping No No Short-circuit breaking capacity (lcw) kA 0.25 Surge current capacity kA 0.25 Frequency Ves Ves Additional equipment possible Yes With interlocking device Yes Percentage Degree of protection (IP) IP20 Width in number of modular spacings IP20 Percentage Built-in depth mm 70 Ambient temperature during operating °C 25-40 Pollution degree 25-40			
Rated current A 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 No Selective protection No No Short-circuit breaking capacity (lcw) KA 0.25 Surge current capacity KA 0.25 Frequency Sol Hz Yes Additional equipment possible Yes With interlocking device Yes Yes Degree of protection (IP) IP20 Yes Width in number of modular spacings mm 70 Ambient temperature during operating °C -25 - 40 Ambient temperature during operating °C -25 - 40	Number of poles		2
Rated fault current Rated insulation voltage Ui Rated insulation voltage Uimp Rated impulse withstand voltage Uimp Mounting method Leakage current type Leakage current type Selective protection Short-time delayed tripping Short-circuit breaking capacity (Icw) Short-circuit breaking capacity (Icw) Surge current capacity Frequency Additional equipment possible With interlocking device Degree of protection (IP) Width in number of modular spacings Built-in depth Ambient temperature during operating Pollution degree ma 30 44 40 40 40 AD AD AD AD AD AD AD AD AD A	Rated voltage	V	230
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Mounting method Leakage current type Selective protection Short-time delayed tripping Short-circuit breaking capacity (Icw) Surge current capacity Frequency Additional equipment possible With interlocking device Degree of protection (IP) Width in number of modular spacings Built-in depth Ambient temperature during operating Pollution degree DIN rail AC AC AC No No No 1 No No	Rated insulation voltage Ui	V	440
Leakage current type Selective protection Short-time delayed tripping Short-circuit breaking capacity (Icw) Surge current capacity Frequency Additional equipment possible With interlocking device Degree of protection (IP) Width in number of modular spacings Built-in depth Ambient temperature during operating Pollution degree Pollution degree AC AC AC AC AC No No Surge current capacity (Icw) No SA 0 25 50 Hz Yes Yes Yes Yes 4 4 AD AD AD AD AD AD AD AD	Rated impulse withstand voltage Uimp	kV	4
Selective protection Short-time delayed tripping Short-circuit breaking capacity (Icw) Surge current capacity Frequency Additional equipment possible With interlocking device Degree of protection (IP) Width in number of modular spacings Built-in depth Ambient temperature during operating Pollution degree Pollution degree No	Mounting method		DIN rail
Short-time delayed tripping Short-circuit breaking capacity (Icw) Surge current capacity Frequency Additional equipment possible With interlocking device Degree of protection (IP) Width in number of modular spacings Built-in depth Mmm 70 Ambient temperature during operating Pollution degree No No No No No 1 No 1 No 1 1 1 1 1 1 1 1 1 1 1 1 1	Leakage current type		AC
Short-circuit breaking capacity (Icw) Surge current capacity Frequency Additional equipment possible With interlocking device Degree of protection (IP) Width in number of modular spacings Built-in depth Ambient temperature during operating Pollution degree KA 0.25 50 Hz Yes Yes 1P20 4 4 Andient temperature during operating Pollution degree C -25 - 40 Pollution degree	Selective protection		No
Surge current capacity KA 0.25 Frequency Additional equipment possible With interlocking device Degree of protection (IP) Width in number of modular spacings Built-in depth Ambient temperature during operating Pollution degree KA 0.25 Degree Yes Yes Pollution degree Yes 4 4 C 2-5-40 Pollution degree	Short-time delayed tripping		No
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 Ambient temperature during operating Pollution degree 12 Pollution degree 15 Pollution deg	Short-circuit breaking capacity (Icw)	kA	0
Additional equipment possible With interlocking device Ves Degree of protection (IP) Width in number of modular spacings Built-in depth Ambient temperature during operating Pollution degree Yes 1P20 4 70 70 25 - 40 Pollution degree	Surge current capacity	kA	0.25
With interlocking device Degree of protection (IP) Width in number of modular spacings Width in number of modular spacings Built-in depth Ambient temperature during operating Pollution degree Yes 4 70 22	Frequency		50 Hz
Degree of protection (IP) Width in number of modular spacings Built-in depth Ambient temperature during operating Pollution degree Pollution degree IP20 4 70 22 24 Pollution degree	Additional equipment possible		Yes
Width in number of modular spacings 4 Built-in depth mm 70 Ambient temperature during operating °C -25 - 40 Pollution degree 2	With interlocking device		Yes
Built-in depth mm 70 Ambient temperature during operating °C -25 - 40 Pollution degree 2	Degree of protection (IP)		IP20
Ambient temperature during operating °C -25 - 40 Pollution degree 2	Width in number of modular spacings		4
Pollution degree 2	Built-in depth	mm	70
•	Ambient temperature during operating	°C	-25 - 40
	Pollution degree		2
Connectable conductor cross section multi-wired mm ² 0.75 - 16	Connectable conductor cross section multi-wired	mm²	0.75 - 16
Connectable conductor cross section solid-core mm ² 0.75 - 16	Connectable conductor cross section solid-core	mm²	0.75 - 16