DATASHEET - PBSM-633/1-A-MW



Residual-current circuit breaker trip block for PLS. 63A, 3 p, 1000mA, type Λ



Part no. PBSM-633/1-A-MW Catalog No. 262564

Similar to illustration

Delivery program			
Basic function			Add-on residual current protection unit
Number of poles			3 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	1
Туре			Type A
Tripping		s	non-delayed
Product range			PBSM
Sensitivity			Pulse-current sensitive
Impulse withstand current			Partly surge-proof 250 A

Technical data

Terminals top and bottom

Terminal protection

Thickness of busbar material

Climatic proofing

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Rated frequency	f	Hz	50
Sensitivity			Pulse-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	107.5 (3TE)
Mounting			fix mounted onto PLS
Degree of Protection			IP40, IP54 (with moisture-proof enclosure)

mm

°C

Lift terminals BGV A3, ÖVE-EN 6

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

0.8 - 2

Design verification as per IEC/EN 61439

Permissible storage and transport temperatures

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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	23
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			

0.2 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 v provide heat dissipation data for the devices.
0.11 Short-circuit rating	Is the panel builder's responsibility. The specifications for the switchgear mu observed.
0.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear mu 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])

Rated voltage V 400 Rated current A 63 Rated fault current mA 1000 Rated insulation voltage Ui V 440 Rated impulse withstand voltage Uimp kV 4 Mounting method DIN rail Consider the contraction Selective protection No No Short-time delayed tripping No No Short-circuit breaking capacity (lew) KA 0 Surge current capacity KA 0.25 Frequency Ves 50 Hz Additional equipment possible Yes Ves With interlocking device Yes 120 Degree of protection (IP) 120 6.14 Width in number of modular spacings mm 70 Ambient temperature during operating 2°C 25 - 40 Pollution degree 2°C 25 - 40 Connectable conductor cross section multi-wired mm² 70 - 16			
Rated current A 63 Rated fault current mA 1000 Rated insulation voltage Ui V 440 Rated impulse withstand voltage Uimp kV 4 Mounting method Leakage current type A 101 rail Selective protection Mo A 8 Short-time delayed tripping KA 0 9 No Short-circuit breaking capacity (lcw) KA 0 2 50 Hz 7 9 Surge current capacity KA 0.25 9 9 10 Hz	Number of poles		3
Rated fault current mA 1000 Rated insulation voltage Ui V 440 Rated impulse withstand voltage Uimp kV 4 Mounting method DIN rail Leakage current type A No Selective protection No No Short-time delayed tripping KA 0 Short-circuit breaking capacity (Icw) KA 0 Surge current capacity KA 0.25 Frequency Ves Ves Additional equipment possible Yes Permander With interlocking device Permander Permander Permander Permander Built-in depth mm 70 Ambient temperature during operating mm 70 Ambient temperature during operating C -25-40 Pollution degree mm² 0.75-16	Rated voltage	V	400
Rated insulation voltage Ui V 440 Rated impulse withstand voltage Uimp kV 4 Mounting method DIN rail Leakage current type A A Selective protection No No Short-time delayed tripping No No Short-circuit breaking capacity (lcw) kA 0 Surge current capacity kA 0.25 Frequency Ves Ves Additional equipment possible Yes Ves With interlocking device IP20 IP20 Width in number of modular spacings 6.14 6.14 Built-in depth mm 70 Ambient temperature during operating °C -25 - 40 Pollution degree 2 -25 - 40 Connectable conductor cross section multi-wired mm² 0.75 - 16	Rated current	Α	63
Rated impulse withstand voltage Uimp 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 Ambient temperature during operating Connectable conductor cross section multi-wired With interlocking degree Connectable conductor cross section multi-wired Additional equipment possible With interlocking degree And Connectable conductor cross section multi-wired Additional equipment possible With interlocking device Ves Connectable conductor cross section multi-wired Additional equipment possible And Connectable conductor cross section multi-wired Additional equipment possible And Connectable conductor cross section multi-wired Additional equipment possible And Connectable conductor cross section multi-wired Additional equipment possible And Connectable conductor cross section multi-wired And Connectable conductor cross section multi-wired Additional equipment possible And Connectable conductor cross section multi-wired Additional equipment possible And Connectable conductor cross section multi-wired Additional equipment possible And Connectable conductor cross section multi-wired Additional equipment possible And Connectable conductor cross section multi-wired And Connectable conductor cross section multi-wired And Connectable conductor cross section multi-wired And C	Rated fault current	mA	1000
DIN rail Leakage current type Selective protection Short-time delayed tripping Short-circuit breaking capacity (lcw) 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 Mind in degree Connectable conductor cross section multi-wired DIN rail A A A A A A A A A A A B A B A B A B A	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 Connectable conductor cross section multi-wired Additional equipment possible A C No No No No No Pollution degree No No No No Pollution degree No No No No No No No No No	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 Connectable conductor cross section multi-wired No No No No No No Example of Polution (PA) No Ves Yes Ves Ves 6.14 Pollution degree 2 Connectable conductor cross section multi-wired No No No O.25 Frequency Yes Ves Pollution degree 0.14 Pollution degree 0.75 - 16	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 Ambient temperature during operating Pollution degree Connectable conductor cross section multi-wired No No No No 1 No 1 1 1 1 1 1 1 1 1 1 1 1 1	Leakage current type		A
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 Connectable conductor cross section multi-wired KA 0.25 Frequency Yes Yes Pollution degree Frequency NAB NAB 0.25 Frequency Yes Pollution temperature during operating NAB NAB 0.25 Frequency Yes Pollution degree Connectable conductor cross section multi-wired NAB NAB 0.25 Ambient temperature during operating NAB NAB 0.25 0.75 - 16	Selective protection		No
Surge current capacity Frequency Additional equipment possible With interlocking device Degree of protection (IP) Width in number of modular spacings Built-in depth Built-in depth Ambient temperature during operating Pollution degree Connectable conductor cross section multi-wired KA D.25 Yes Yes 120 4.1 5.14 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.	Short-time delayed tripping		No
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 Connectable conductor cross section multi-wired 50 Hz Yes Yes 6.14 6.14 70 -25 - 40 -25 - 40 -27 - 25 - 40 -27 - 27 - 40 -27 - 27 - 40 -27 - 27 - 40 -27 - 27 - 40 -27 - 27 - 40 -40 - 40 -40 - 40	Short-circuit breaking capacity (Icw)	kA	0
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 Connectable conductor cross section multi-wired Yes Yes 1P20 6.14 70 -25 - 40 2 Connectable conductor cross section multi-wired mm² 0.75 - 16	Surge current capacity	kA	0.25
With interlocking device Degree of protection (IP) Width in number of modular spacings Windth in number of mo	Frequency		50 Hz
Degree of protection (IP) Width in number of modular spacings Built-in depth Ambient temperature during operating Pollution degree Connectable conductor cross section multi-wired Pollution degree Degree of protection (IP) IP20 6.14 70 -25 - 40 -25 - 40 2 Connectable conductor cross section multi-wired Pollution degree Degree of protection (IP) IP20 6.14 70 70 70 70 70 70 70 70 70 7	Additional equipment possible		Yes
Width in number of modular spacings Built-in depth mm 70 Ambient temperature during operating °C -25 - 40 Pollution degree 2 Connectable conductor cross section multi-wired mm² 0.75 - 16	With interlocking device		Yes
Built-in depth mm 70 Ambient temperature during operating °C -25 - 40 Pollution degree 2 Connectable conductor cross section multi-wired mm² 0.75 - 16	Degree of protection (IP)		IP20
Ambient temperature during operating °C -25 - 40 Pollution degree 2 Connectable conductor cross section multi-wired mm² 0.75 - 16	Width in number of modular spacings		6.14
Pollution degree 2 Connectable conductor cross section multi-wired mm² 0.75 - 16	Built-in depth	mm	70
Connectable conductor cross section multi-wired mm ² 0.75 - 16	Ambient temperature during operating	°C	-25 - 40
	Pollution degree		2
Connectable conductor cross section solid-core mm ² 0.75 - 16	Connectable conductor cross section multi-wired	mm²	0.75 - 16
	Connectable conductor cross section solid-core	mm²	0.75 - 16