# DATASHEET - PLS6-B63-MW



Miniature circuit breaker (MCB), 63A, 1p, type B characteristic

PLS6-B63-MW

242661

Part no. Catalog No. Powering Business Worldwide"

## **Delivery program**

ear for residential and commercial applications

# **Technical data**

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Rated switching capacity according to IEC/EN	60898-1

#### kA 6

 $\mathbf{I}_{\mathrm{cn}}$ 

## Design verification as per IEC/EN 61439

Rated operational current for specified heat dissipation   In   A   63     Heat dissipation per pole, current-dependent   Pvid   W   0     Equipment heat dissipation, current-dependent   Pvid   W   5.2     Static heat dissipation non-current-dependent   Pvs   W   0     Heat dissipation capacity   Pdiss   W   0     Operating ambient temperature min.   Pdiss   V   0     Operating ambient temperature max.   M   °C   75     Image: State in temperature max in temperature max.   M   Image: State in temperature max in temperature max in temperature max.   Image: State in temperature max in temperature max.   Image: State in temperature max in temperature max.   Image: State in temperature max in temperature max in temperature max.   Image: State in temperature max in temperature max in temperature max in temperature max.   Image: State in temperature max in temperat	Design vernication as per ilo/liv 01455			
Neat dissipation per pole, current-dependent     Perid     W       Equipment heat dissipation, current-dependent     Perid     W     5.2       Static heat dissipation, nurrent-dependent     Perids     W     0       Depending ambient temperature min.     %     %     25       Operating ambient temperature max.     %     75     75       EVEX 61438 design verification of current carrying capacity     Meets the product standard's requirements.     Meets the product standard's requirements.       102.2 Corrosion resistance     Inscription of materials and parts     Meets the product standard's requirements.       102.3.2 Verification of tresistance of insulating materials to normal heat     Meets the product standard's requirements.       102.3.2 Verification of resistance of insulating materials to bormal heat     Meets the product standard's requirements.       102.3.2 Verification of resistance of insulating materials to bormal heat     Meets the product standard's requirements.       102.3.2 Verification of resistance of insulating materials to abormal heat     Meets the product standard's requirements.       102.4 Resistance to uitra-violet (UV) radiation     Meets the product standard's requirements.       102.5 Itring     Des not apply, since the entire switchgear needs to be evaluated.       102.5	Technical data for design verification			
Equipment heat dissipation, current-dependent     Pair     Vea     5       Static heat dissipation, current-dependent     Pairs     We     0       Ideat dissipation capacity     Pairs     We     0       Operating ambient temperature min.     "Ce     25       Operating ambient temperature max.     "Ce     75       Ideat dissipation of pairs disparse     Meets the product standard's requirements.       Ide2 Strength of materials and parts     Meets the product standard's requirements.       Ide2 Strength of materials and parts     Meets the product standard's requirements.       Ide2 Strength of resistance of insulating materials to aboremal heat and fire due to internet electric effects     Meets the product standard's requirements.       Ide2 A Resistance to ultra-violet (UV) radiation     Meets the product standard's requirements.       Ide2 A Resistance to ultra-violet (UV) radiation     Meets the product standard's requirements.       Ide2 A Resistance to ultra-violet (UV) radiation     Meets the product standard's requirements.       Ide2 A Resistance to ultra-violet (UV) radiation     Meets the product standard's requirements.       Ide2 A Resistance of insulating materials to aboremal heat in add regute readisto the avaluated.     Dees not apply, since the entire switchgaar needs to be avaluated.	Rated operational current for specified heat dissipation	I <sub>n</sub>	А	63
Static heat dissipation, on-current-dependent     Person     Vert     Person	Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0
Heat dissipation capacity     Person     Weat     Person	Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	5.2
Operating ambient temperature min.     Arrian of the constraint temperature max.     Same of the constraintedon temperature max.     Same of the constraintedont	Static heat dissipation, non-current-dependent	P <sub>vs</sub>	W	0
Operating ambient temperature max.     °C     75       Depresting ambient temperature max.     Inear, per +1 °C, results in a 0.5% reduction of current carrying capacity       IEUE/N 61439 design verification     Mess     Herry C, results in a 0.5% reduction of current carrying capacity       ID2.25 trength of materials and parts     Mess the product standard's requirements.     Mess       ID2.31 Verification of thermal stability of enclosures     Mess the product standard's requirements.     Mess the product standard's requirements.       ID2.32 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects     Mess the product standard's requirements.       ID2.32 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects     Mess the product standard's requirements.       ID2.32 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects     Mess the product standard's requirements.       ID2.32 Lybrification of resistance of insulating materials to abnormal heat and fire due to internal electric affects     Mess the product standard's requirements.       ID2.32 Lybrification of resistance of insulating materials to abnormal heat infectue to internal electric affects     Des not apply, since the entire switchgear needs to be evaluated.       ID2.51 Kriting     Des not apply, since the entire switchgear needs to be evaluated.     Des not apply	Heat dissipation capacity	P <sub>diss</sub>	W	0
Interaction     Interact, per +1 °C, results in a 0.5% reduction of current carrying capacity       IEC/EN 61439 design verification     Interact, per +1 °C, results in a 0.5% reduction of current carrying capacity       ID2 Strength of materials and parts     Meets the product standard's requirements.       ID2.21 Verification of thermal stability of enclosures     Meets the product standard's requirements.       ID2.32 Verification of resistance of insulating materials to normal heat and fire due to imernal electric effects     Meets the product standard's requirements.       ID2.42 Resistance to ultra-violet (UV) radiation     Meets the product standard's requirements.       ID2.52 Verification of resistance of insulating materials to abnormal heat and fire due to imernal electric effects     Meets the product standard's requirements.       ID2.42 Resistance to ultra-violet (UV) radiation     Dees not apply, since the entire switchgear needs to be evaluated.       ID2.52 Lifting     Dees not apply, since the entire switchgear needs to be evaluated.       ID3.26 gree of protection of ASSEMBLIES     Dees not apply, since the entire switchgear needs to be evaluated.       ID4.12 Hearances and creepage distances     Meets the product standard's requirements.       ID4.12 Hearances and components     Dees not apply, since the entire switchgear needs to be evaluated.       ID5.12 Fortection against electric strongth     Ence Poil apply, since the entire switchgear needs to	Operating ambient temperature min.		°C	-25
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10.9 Insulation properties Image: Constraint of the panel builder's responsibility.   10.9.2 Power-frequency electric strength Image: Constraint of the panel builder's responsibility.   10.9.3 Impulse withstand voltage Image: Constraint of the panel builder's responsibility.	10.7 Internal electrical circuits and connections			Is the panel builder's responsibility.
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.	10.8 Connections for external conductors			Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage	10.9 Insulation properties			
	10.9.2 Power-frequency electric strength			Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material 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) / Miniature circuit breaker (MCB) (EC000042)		
Electric engineering, automation, process control engineering / Electrical installation, devic (ecl@ss10.0.1-27-14-19-01 [AAB905014])	e / Miniature ci	rcuit breaker system (MCB) / Miniature circuit breaker (MCB)
Release characteristic		В
Number of poles (total)		1
Number of protected poles		1
Rated current	А	63
Rated voltage	V	230
Rated insulation voltage Ui	V	440
Rated impulse withstand voltage Uimp	kV	4
Rated short-circuit breaking capacity Icn EN 60898 at 230 V	kA	6
Rated short-circuit breaking capacity Icn EN 60898 at 400 V	kA	6
Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V	kA	0
Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V	kA	0
Voltage type		AC
Frequency	Hz	50 - 60
Current limiting class		3
Suitable for flush-mounted installation		No
Concurrently switching N-neutral		No
Over voltage category		3
Pollution degree		2
Additional equipment possible		Yes
Width in number of modular spacings		1
Built-in depth	mm	70.5
Degree of protection (IP)		IP20
Ambient temperature during operating	°C	-25 - 55
Connectable conductor cross section multi-wired	mm²	1 - 25
Connectable conductor cross section solid-core	mm²	1 - 25