DATASHEET - PLS6-B2,5-MW



Miniature circuit breaker (MCB), 2.5 A, 1p, characteristic: B

Part no. PLS6-B2,5-MW Catalog No. 242644



Delivery program

- 11 - 3 ·			
Basic function			Miniature circuit-breakers
Number of poles			1 pole
Tripping characteristic			В
Application			Switchgear for residential and commercial applications
Rated current	In	Α	2.5
Rated switching capacity according to IEC/EN 60898-1	I _{cn}	kA	6
Product range			PLS6

Technical data

Electrical

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Design verification as per IEC/EN 61439

Design vernication as per 120/214 01433			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	2.5
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	1.5
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	75
			linear, per +1 °C, results in a 0.5% reduction of current carrying capacity
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 FTIM 7.0

Electricapinearing, automation, process control engineering / Electrical installator, device / Hurber of protecting souther professes of the agent of place (relation stallator) (electrical installator) (electrical install	Technical data ETIM 7.0					
Release characteristic 8 8 Number of poles (total) 1 1 Number of poles (total) 4 1 Number of protected poles 4 2 Rated current A 25 Rated unsulation voltage Uin V 30 Rated insulation voltage Uinp K 4 Rated short-circuit breaking capacity (ne NE 60898 at 200 V KA 6 Rated short-circuit breaking capacity (ne NE 60898 at 400 V KA 6 Rated short-circuit breaking capacity (ne NE 60898 at 400 V KA 6 Rated short-circuit breaking capacity (ne NE 60898 at 400 V KA 6 Rated short-circuit breaking capacity (ne NE 60898 at 400 V KA 6 Rated short-circuit breaking capacity (ne NE 60898 at 400 V KA 6 Rated short-circuit breaking capacity (ne NE 60894 z 2a t 200 V KA 6 Voltage type B C 6 Frequency B KA 9 Current limiting class N N N Suitable for flush-mounted installation N	Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042	2)				
Number of poles (total) 4 1 Number of protected poles 4 2 Rated current A 2 Rated voltage V 200 Rated insulation voltage Uim V 440 Rated simulation voltage Uimp KA 6 Rated short-circuit breaking capacity Icn EN 60898 at 200 V KA 6 Rated short-circuit breaking capacity Icu EC 60947-2 at 230 V KA 0 Rated short-circuit breaking capacity Icu EC 60947-2 at 200 V KA 0 Rated short-circuit breaking capacity Icu EC 60947-2 at 200 V KA 0 Rated short-circuit breaking capacity Icu EC 60947-2 at 200 V KA 0 Rated short-circuit breaking capacity Icu EC 60947-2 at 200 V KA 0 Rated short-circuit breaking capacity Icu EC 60947-2 at 200 V KA 0 Rated short-circuit breaking capacity Icu EC 60947-2 at 200 V KA 0 Current ismiting class KA 0 0 Current ismiting class KA 0 0 Suitable for flush-mounted installation KA 0 0 </td <td colspan="6"></td>						
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Rated short-circuit breaking capacity Icn EN 60898 at 230 V	Rated insulation voltage Ui		V	440		
Rated short-circuit breaking capacity Icn EN 60898 at 400 V	Rated impulse withstand voltage Uimp		kV	4		
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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 - 75 Connectable conductor cross section multi-wired mm² 1 - 25	Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V		kA	0		
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Degree of protection (IP) Ambient temperature during operating °C -25 - 75 Connectable conductor cross section multi-wired mm² 1 - 25	Width in number of modular spacings			1		
Ambient temperature during operating °C -25 - 75 Connectable conductor cross section multi-wired mm² 1 - 25	Built-in depth		mm	70.5		
Connectable conductor cross section multi-wired mm ² 1 - 25	Degree of protection (IP)			IP20		
	Ambient temperature during operating		°C	-25 - 75		
Connectable conductor cross section solid-core mm ² 1 - 25	Connectable conductor cross section multi-wired		mm²	1 - 25		
	Connectable conductor cross section solid-core		mm²	1 - 25		