DATASHEET - PLZM-C1,5/1N-MW



Miniature circuit breaker (MCB), 1,5A, 1pole+N, type C characteristic

Powering Business Worldwide*

Part no. PLZM-C1,5/1N-MW Catalog No. 242322

Similar to illustration

Delivery program

7.			
Basic function			Miniature circuit-breakers
Number of poles			1 pole+N
Tripping characteristic			C
Application			Switchgear for residential and commercial applications
Rated current	In	Α	1.5
Rated switching capacity according to IEC/EN 60898-1	I _{cn}	kA	10
Product range			PLZM

Technical data

Electrical

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Design verification as per IEC/EN 61439

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echnical data for design verification			
Rated operational current for specified heat dissipation	In	Α	1.5
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	1.6
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
C/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

Retertic engineering, automation, process control engineering / Electrical installation, device / Ministure circuit breaker (MCB) / Ministure circuit breaker (MCB) (ec (loss 10.1-27-14-19-01 (AAB996014)) Release characterists	Technical data ethivi 7.0					
Cel Manuber of poles (total)	Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)					
Number of poles (total) 2 Number of protected poles 1 Rated current A 1.5 Rated voltage V 20 Rated insulation voltage Uin V 440 Rated singulse withstand voltage Uinp kV 4 Rated short-circuit breaking capacity Icn EN 60898 at 200 V kA 10 Rated short-circuit breaking capacity Icn EN 60898 at 400 V kA 0 Rated short-circuit breaking capacity Icu IEC 60947-2 at 250 V kA 0 Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V kA 0 Voltage type KA 0 C Frequency KA 0 C Current limiting class Y Yes Suitable for flush-mounted installation Yes Yes Concurrently switching N-neutral Yes Yes Over voltage category Yes Yes Pollution degree Yes Yes Width in number of modular spacings Yes Yes Built-in depth mm 7.5	Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss10.0.1-27-14-19-01 [AAB905014])					
Number of protected poles 1 Rated current A 1.5 Rated voltage V 200 Rated insulation voltage Ui V 440 Rated impulse withstand voltage Uimp kV 4 Rated short-circuit breaking capacity Ion EN 60898 at 230 V kA 10 Rated short-circuit breaking capacity Ion EN 60898 at 400 V kA 0 Rated short-circuit breaking capacity Iou IEC 60947-2 at 230 V kA 0 Rated short-circuit breaking capacity Iou IEC 60947-2 at 400 V kA 0 Voltage type AC AC Frequency B AC Current limiting class No No Suitable for flush-mounted installation Yes Yes Our voltage category Yes 2 Pollution degree Yes Yes Additional equipment possible Yes Width in number of modular spacings M Yes Built-in depth Pollution degree Yes Built-in depth Pollution degree Yes Built	Release characteristic		С			
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Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Voltage type AC Frequency Hz 50 - 60 Current limiting class Suitable for flush-mounted installation Concurrently switching N-neutral Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Built-in depth Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired KA AC AC AC AC AC AC AC AC AC	Rated short-circuit breaking capacity Icn EN 60898 at 400 V	kA	10			
Voltage type Frequency Current limiting class Suitable for flush-mounted installation Concurrently switching N-neutral Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Built-in depth Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired AC AC AC AC AC PA BU SO - 60 No Ves Ves 2 3 3 4 2 4 7 8 Yes Yes 4 7 1 1 1 1 1 1 1 1 1 1 1 1	Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V	kA	0			
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Concurrently switching N-neutral Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Built-in depth Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired Yes Yes Yes Yes Yes Yes Yes Y	Current limiting class		3			
Over voltage category Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Built-in depth Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired 3 Yes Yes 70.5 IP20 IP20 Ambient temperature during operating C -25 - 55 Connectable conductor cross section multi-wired I - 25	Suitable for flush-mounted installation		No			
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Additional equipment possible Width in number of modular spacings Built-in depth Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired Yes 70.5 IP20 1-25 1-25	Over voltage category		3			
Width in number of modular spacings 2 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	Pollution degree		2			
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	Additional equipment possible		Yes			
Degree of protection (IP) Ambient temperature during operating °C -25 - 55 Connectable conductor cross section multi-wired mm² 1 - 25	Width in number of modular spacings		2			
Ambient temperature during operating °C -25 - 55 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 - 55			
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			