DATASHEET - PLS6-C6-MW

Miniature circuit breaker (MCB), 6 A, 1p, characteristic: C



Part no. Catalog No.

PLS6-C6-MW 242675



Similar to illustration

Delivery program			
Basic function			Miniature circuit-breakers
Number of poles			1 pole
Tripping characteristic			C
Application			Switchgear for residential and commercial applications
Rated current	I _n	A	6
Rated switching capacity according to IEC/EN 60898-1	I _{cn}	kA	6
Product range	011		PLS6
Technical data			
Electrical			
Rated switching capacity according to IEC/EN 60898-1	I _{cn}	kA	6
Design verification as per IEC/EN 61439			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	6
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 ETIM 7.0

Amber or protected poles Image: Protected poles Image: Protected poles Rated current A G Rated ourget S S S Rated ourget V S S Rated insulation voltage Uimp K S S Rated singulse withstand voltage Uimp K S S Rated short-circuit breaking capacity Ice EK 60898 at 200 V K S S Rated short-circuit breaking capacity Ice EK 60898 at 200 V K S S Rated short-circuit breaking capacity Ice EK 60898 at 200 V K S S Rated short-circuit breaking capacity Ice EK 60897 at 200 V K S S Valage type K S S S Voltage type K S S S Stable for flush-mounted installation K S S S Coursent switching N-neutral K S S S Stable for flush-mounted installation K S S S Our outgage category	Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)					
Number of poles (total) Image: Constraint of poles (total) Number of poles (total) Image: Constraint of poles (total) Number of poles (total) Image: Constraint of poles (total) Rated outage U Image: Constraint of poles (total) Rated insulation voltage Uin Image: Constraint of poles (total) Rated insulation voltage Uin Image: Constraint of poles (total) Rated short-circuit breaking capacity (cn EK 0698 at 400 V Image: Constraint of poles (total) Rated short-circuit breaking capacity (cn EK 0698 at 400 V Image: Constraint of poles (total) Rated short-circuit breaking capacity (cn EK 0698 at 400 V Image: Constraint of poles (total) Rated short-circuit breaking capacity (cn EK 0698 at 400 V Image: Constraint of poles (total) Rated short-circuit breaking capacity (cn EK 0698 at 400 V Image: Constraint of poles (total) Rated short-circuit breaking capacity (cn EK 0698 at 400 V Image: Constraint of poles (total) Rated short-circuit breaking capacity (cn EK 0697 at 400 V Image: Constraint of poles (total) Rouge type Image: Constraint of poles (total) Image: Constraint of poles (total) Goncurrent switching N-neutral Image: Constraint of poles (total) Image: Constraint of poles (total) <td< td=""><td colspan="5"></td></td<>						
Number of protected polesImage: section of the section o	Release characteristic		C			
Rate durint A A Rate durint V 30 Rate durints V 40 Rate dividage Uin V 40 Rate dividage Uinp V 40 Rate dividage Uinp V 40 Rate dividage Uinp V 40 Rate dividage Dividage Uinp Dividage Uinp V 40 Rate dividage Dividage Uinp Dividage Uinp V 40 Rate dividage Di	Number of poles (total)		1			
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Rated short-circuit breaking capacity lou IEC 60947-2 at 230 V kA 0 Rated short-circuit breaking capacity lou IEC 60947-2 at 400 V kA 0 Voltage type KA KA Frequency KA KA Current limiting class S0 - 60 Suitable for flush-mounted installation KA No Over voltage category KA No Pollution degree S1 S1 Additional equipment possible Yes Yes With in number of modular spacings Man No Built-in depth Man No Pogree of protection (IP) Yes No	Rated short-circuit breaking capacity Icn EN 60898 at 230 V	kA	6			
Rated short-circuit breaking capacity lcu IEC 60947-2 at 400 V kA A Voltage type C C Frequency Lz S - 60 Current limiting class S S - 60 Suitable for flush-mounted installation M M Over voltage category S M Pollution degree S S Additional equipment possible S S Vidta in number of modular spacings M M Built-in depth M S Pogree of (IP) M M S	Rated short-circuit breaking capacity Icn EN 60898 at 400 V	kA	6			
Voltage typeImage: space of the	Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V	kA	0			
Frequency Hz 5-60 Current limiting class So - 60 Suitable for flush-mounted installation So - 60 Concurrently switching N-neutral Mo Over voltage category So - 60 Pollution degree So - 60 Witth in number of modular spacings So - 60 Buit-in depth To - 60 Polution (IP) So - 60	Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V	kA	0			
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Over voltage category 3 Pollution degree 2 Additional equipment possible Mes Width in number of modular spacings Mes Built-in depth Mes Degree of protection (IP) Mes	Suitable for flush-mounted installation		No			
Pollution degree2Additional equipment possibleYesWidth in number of modular spacingsmmBuilt-in depthmmDegree of protection (IP)Immediate of the space of the s	Concurrently switching N-neutral		No			
Additional equipment possible Yes Width in number of modular spacings mm 7.5 Built-in depth Mm 7.5	Over voltage category		3			
Width in number of modular spacings mm 1 Built-in depth mm 70.5 Degree of protection (IP) Image: Constraint of the space of the	Pollution degree		2			
Built-in depth mm 70.5 Degree of protection (IP) Image: Constraint of the second of th	Additional equipment possible		Yes			
Degree of protection (IP)	Width in number of modular spacings		1			
	Built-in depth	mm	70.5			
Ambient temperature during operating °C -25 - 75	Degree of protection (IP)		IP20			
	Ambient temperature during operating	°C	-25 - 75			
Connectable conductor cross section multi-wired mm ² 1 - 25	Connectable conductor cross section multi-wired	mm²	1 - 25			
Connectable conductor cross section solid-core mm ² 1 - 25	Connectable conductor cross section solid-core	mm²	1 - 25			