DATASHEET - PLS6-D10-MW

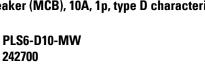
Part no.

Catalog No.



Miniature circuit breaker (MCB), 10A, 1p, type D characteristic

242700





Similar to illustration

Delivery program			
Basic function			Miniature circuit-breakers
Number of poles			1 pole
Tripping characteristic			D
Application			Switchgear for residential and commercial applications
Rated current	l _n	А	10
Rated switching capacity according to IEC/EN 60898-1	l _{cn}	kA	6
Product range			PLS6
Technical data Electrical			
Rated switching capacity according to IEC/EN 60898-1	l _{cn}	kA	6
Design verification as per IEC/EN 61439			
Technical data for design verification			
Rated operational current for specified heat dissipation	I _n	A	10
Heat dissipation per pole, current-dependent	P _{vid}	w	0
Equipment heat dissipation, current-dependent		W	1.5
	P _{vid}		
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.

10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage

10.9 Insulation properties

10.2.7 Inscriptions

10.3 Degree of protection of ASSEMBLIES

10.4 Clearances and creepage distances

10.8 Connections for external conductors

10.6 Incorporation of switching devices and components

10.7 Internal electrical circuits and connections

10.5 Protection against electric shock

Is the panel builder's responsibility.

Meets the product standard's requirements.

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Does not apply, since the entire switchgear needs to be evaluated.

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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, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss10.0.1-27-14-19-01 [AAB905014])				
Release characteristic		D		
Number of poles (total)		1		
Number of protected poles		1		
Rated current	А	10		
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		