

Over current switch, 1A, 3 p, type C characteristic

Part no. Article no.

PLS6-C1/3-MW 242934



Similar to illustration

Design verification as per IEC/EN 61439			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	1
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	4.7
Static heat dissipation, non-current-dependent	P <sub>vs</sub>	W	0
Heat dissipation capacity	P <sub>diss</sub>	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
EC/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 b observed.
10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switchgear must l observed.
10.13 Mechanical function			The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

## **Technical data ETIM 6.0**

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@ss8.1-27-14-19-01 [AAB905011])				
Release characteristic			C	
Number of poles (total)			3	
Number of protected poles			3	
Nominal rated current	A	4	1	
Nominal rated voltage	V	/	400	

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   AC     Current limiting class   50 - 60   No     Frequency   Frequency   No   No     Suitable for flush-mounted installation   No   No     Over voltage category   So   3   So     Pollution degree   So   So <th></th> <th></th> <th></th>			
Rated short-circuit breaking capacity lcu IEC 60947-2 at 230 V   kA   0     Rated short-circuit breaking capacity lcu IEC 60947-2 at 400 V   kA   0     Voltage type   AC   AC     Current limiting class   Frequency   So - 60     Concurrently switching N-neutral   M   So - 60     Suitable for flush-mounted installation   M   No     Over voltage category   M   So - 60     Pollution degree   M   So - 60     Width in number of modular spacings   M   So - 60     Built-in depth   M   So - 60     Rute depth   M   So - 60     Width in number of modular spacings   M   So - 60     Built-in depth   M   So - 60     Suitable for flush-mounted installation   M   So - 60     Over voltage category   M   So - 60     Built-in depth   M   So - 60   So - 60     Width in number of modular spacings   M   So - 60   So - 60     Built-in depth   M   So - 60   So - 60   So - 60     So - 60   M   So - 60   So - 60   S	Rated short-circuit breaking capacity Icn EN 60898 at 230 V	kA	6
Rated short-circuit breaking capacity lou IEC 60947-2 at 400 V   KA   0     Voltage type   CC   CC     Current limiting class   S   S     Frequency   Hz   0     Concurrently switching N-neutral   M   S     Suitable for flush-mounted installation   M   No     Over voltage category   S   S     Pollution degree   S   S     With in number of modular spacings   M   S     Built-in depth   M   S     Additional equipment possible   S   S	Rated short-circuit breaking capacity Icn EN 60898 at 400 V	kA	6
Voltage type     AC       Current limiting class     3       Frequency     Frequency       Concurrently switching N-neutral     Hz       Suitable for flush-mounted installation     No       Over voltage category     Site of the second	Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V	kA	0
Current limiting class   Image: Base of the second secon	Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V	kA	0
Frequency   Hz   50-60     Concurrently switching N-neutral   Main   No     Suitable for flush-mounted installation   Main   No     Over voltage category   Main   Suitable for flush-mounted installation   Suitable for flush-mounted installation     Width in number of modular spacings   Main   Suitable for flush-mounted installation   Suitable for flush-mounted installation     Built-in depth   Minimum   Suitable for flush-mounted installation   Suitable for flush-mounted installation     Additional equipment possible   Image: Suitable for flush-mounted installation   Suitable for flush-mounted installation   Suitable for flush-mounted installation	Voltage type		AC
Concurrently switching N-neutral   No     Suitable for flush-mounted installation   No     Over voltage category   3     Pollution degree   2     Width in number of modular spacings   Image: Space of the s	Current limiting class		3
Suitable for flush-mounted installation Mo   Over voltage category G J   Pollution degree G J   Width in number of modular spacings G J   Built-in depth mm 70.5   Additional equipment possible F F	Frequency	Hz	50 - 60
Over voltage categorySSPollution degree2Width in number of modular spacingsMBuilt-in depthmmAdditional equipment possibleImmSS<	Concurrently switching N-neutral		No
Pollution degree 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Suitable for flush-mounted installation		No
Width in number of modular spacings Midth in number of modular spacings Midth in number of modular spacings   Built-in depth mm 70.5   Additional equipment possible Midth in number of modular spacings Yes	Over voltage category		3
Built-in depth mm 70.5   Additional equipment possible MM Yes	Pollution degree		2
Additional equipment possible	Width in number of modular spacings		3
	Built-in depth	mm	70.5
Degree of protection (IP)	Additional equipment possible		Yes
	Degree of protection (IP)		IP20