

Over current switch, 40A, 3p, type C characteristic

Part no. PLSM-C40/3-MW Article no. 242478



Similar to illustration

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	40
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	11.2
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 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		С		
Number of poles (total)		3		
Number of protected poles		3		
Nominal rated current	А	40		
Nominal rated voltage	V	400		

Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Voltage type Current limiting class kA 0 AC 3			
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 Current limiting class 3 Frequency 50 - 60 Concurrently switching N-neutral 50 - 60 Suitable for flush-mounted installation No Over voltage category 3 Pollution degree 2 Width in number of modular spacings 3 Built-in depth Modular spacings 4 Additional equipment possible 5 KA 0 Carcanananananananananananananananananana	Rated short-circuit breaking capacity Icn EN 60898 at 230 V	kA	10
Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Voltage type Current limiting class Frequency Concurrently switching N-neutral Suitable for flush-mounted installation Over voltage category Pollution degree Width in number of modular spacings Built-in depth Additional equipment possible	Rated short-circuit breaking capacity Icn EN 60898 at 400 V	kA	10
Voltage type AC Current limiting class Frequency Concurrently switching N-neutral Concurrently switching N-neutral No Suitable for flush-mounted installation Over voltage category Pollution degree Width in number of modular spacings Built-in depth AC	Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V	kA	0
Current limiting class Frequency Concurrently switching N-neutral Suitable for flush-mounted installation Over voltage category Pollution degree Width in number of modular spacings Built-in depth Additional equipment possible Additional equipment possible So - 60 No No Over voltage category No Suitable for flush-mounted installation No Suitable flush-mounted installation No Suitable flush-mounted installati	Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V	kA	0
Frequency Concurrently switching N-neutral Suitable for flush-mounted installation Over voltage category Pollution degree Width in number of modular spacings Built-in depth Additional equipment possible Hz 50-60 No No Over Voltage Category Pollution degree 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Voltage type		AC
Concurrently switching N-neutral Suitable for flush-mounted installation Over voltage category Pollution degree Width in number of modular spacings Built-in depth Additional equipment possible No 3 2 Wes	Current limiting class		3
Suitable for flush-mounted installation Over voltage category Pollution degree Width in number of modular spacings Built-in depth Additional equipment possible No 2 2 Wood Management Possible No 3 4 2 4 4 4 4 5 7 7 8 8 8 8 8 8 8 8 8 8 8	Frequency	Hz	50 - 60
Over voltage category Pollution degree 2 Width in number of modular spacings Built-in depth Additional equipment possible 3 Possible 3 Tossible Yes	Concurrently switching N-neutral		No
Pollution degree 2 2 Width in number of modular spacings 3 3 Built-in depth mm 70.5 Additional equipment possible Yes	Suitable for flush-mounted installation		No
Width in number of modular spacings 3 Built-in depth mm 70.5 Additional equipment possible Yes	Over voltage category		3
Built-in depth mm 70.5 Additional equipment possible Yes	Pollution degree		2
Additional equipment possible Yes	Width in number of modular spacings		3
	Built-in depth	mm	70.5
Degree of protection (IP) IP20	Additional equipment possible		Yes
	Degree of protection (IP)		IP20