Miniature circuit breaker (MCB), 16 A, 4p, characteristic: C



Part no. Catalog No.

PLSM-C16/4-MW 242612

EL-Nummer (Norway)

1609223

Similar to illustration

Delivery program

Delivery program			
Basic function			Miniature circuit-breakers
Number of poles			4 pole
Tripping characteristic			С
Application			Switchgear for residential and commercial applications
Rated current	In	Α	16
Rated switching capacity according to IEC/EN 60898-1	I _{cn}	kA	10
Product range			PLSM

Technical data

Electrical

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Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	16
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	8.8
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
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 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 8.0

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)

Release characteristic Number of poles (total) Number of protected poles Rated current Rated current Rated current Rated insulation voltage Uir Rated insulation voltage Uir Rated short-circuit breaking capacity (on according to EN 60898 at 230 V V V V V V V V V V V V V V V V V V V	clectric engineering, automation, process control engineering / Electrical installation, de (ecl@ss10.0.1-27-14-19-01 [AAB905014])	vice / iviiiiature cii	cuit breaker system (Mod)/ Milliature circuit breaker (Mod)
Number of poles (total) Number of protected poles Rated current Rated voltage Rated voltage Rated withstand voltage Uim Rated impulse withstand voltage Uimp Rated short-circuit breaking capacity Icn according to EN 60988 at 230 V Rated short-circuit breaking capacity Icn according to EN 60988 at 230 V Rated short-circuit breaking capacity Icn according to EN 60988 at 230 V Rated short-circuit breaking capacity Icn according to EN 60988 at 400 V Rated short-circuit breaking capacity Icu according to EN 60988 at 400 V Rated short-circuit breaking capacity Icu according to EC 60947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 2400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rate	Built-in depth	mm	70.5
Author of protected poles Alated current Alated current Alated voltage Alated insulation voltage Uin Alated insulation voltage Uinp Alated short-circuit breaking capacity Icn according to EN 60898 at 230 V Alated short-circuit breaking capacity Icn according to EN 60898 at 400 V Alated short-circuit breaking capacity Icn according to EN 60898 at 400 V Alated short-circuit breaking capacity Icn according to EN 60898 at 400 V Alated short-circuit breaking capacity Icn according to EN 60898 at 400 V Alated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Alated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Alated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Alated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Alated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Alated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Alated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Alated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Alated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Alated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Alated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Alated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Alated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Alated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Alated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Alated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Alated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Alated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Alated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Alated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Alat	Release characteristic		С
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Asted insulation voltage Ui Asted insulation voltage Uiiip Asted short-circuit breaking capacity Icn according to EN 60898 at 230 V Voltage type Acc Acc Act Act Act Act Act Ac	Rated current	Α	16
Rated impulse withstand voltage Ulimp Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity	Rated voltage	V	400
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Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V	Voltage type		AC
Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Hz 50 - 60 Current limiting class Flush-mounted installation Concurrently switching neutral conductor Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Width in number of modular spacings Ambient temperature during operating Connectable conductor cross section multi-wired Connectable conductor cross section solid-core KA 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V	kA	10
Frequency Current limiting class Current limiting class Currently switching neutral conductor Concurrently switching neutral conductor Currently switching neutral conductor 3 Current limiting class Current l	Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V	kA	0
Current limiting class Current limiting class Current limiting class No Concurrently switching neutral conductor Yes Over voltage category 3 Collution degree Additional equipment possible Width in number of modular spacings Width in number of modular spacings Ambient temperature during operating Connectable conductor cross section multi-wired Connectable conductor cross section solid-core mm² 1 - 25 Connectable conductor cross section solid-core 3 Connectable conductor cross section solid-core	Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V	kA	0
Flush-mounted installation Concurrently switching neutral conductor Ves Over voltage category 3 Pollution degree Pollution degree Additional equipment possible Width in number of modular spacings Vegree of protection (IP) Poly Ambient temperature during operating Connectable conductor cross section multi-wired Connectable conductor cross section solid-core No No Yes 2 4 1 1 1 1 1 1 1 1 1 1 1 1	Frequency	Hz	50 - 60
Concurrently switching neutral conductor Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Width in number of modular spacings Pollution (IP) Ambient temperature during operating Connectable conductor cross section solid-core Yes 4 Pogree of protection (IP) Protection (IP) The protection of the protecti	Current limiting class		3
Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Vegree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired Connectable conductor cross section solid-core Polycer voltage category 3 Yes 4 Polycer P20 -25 - 75 Connectable conductor cross section multi-wired mm² 1 - 25 Connectable conductor cross section solid-core mm² 1 - 25	Flush-mounted installation		No
Pollution degree Additional equipment possible Width in number of modular spacings Vegree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired Connectable conductor cross section solid-core Peollution degree 2 Yes 4 IP20 Connectable conductor cross section multi-wired mm² 1 - 25 Connectable conductor cross section solid-core mm² 1 - 25	Concurrently switching neutral conductor		Yes
Additional equipment possible Width in number of modular spacings Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired Connectable conductor cross section solid-core Type Yes 4 IP20 -25 - 75 -25 - 75 -25 - 75 -25 - 75 -25 - 75 -25 - 75 -27 - 25 - 75 -27 - 25 - 75 -28 - 25 - 75 -29 - 25 - 75 -20 - 25 -	Over voltage category		3
Width in number of modular spacings Pegree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired mm² 1 - 25 Connectable conductor cross section solid-core mm² 1 - 25	Pollution degree		2
Degree of protection (IP) Ambient temperature during operating °C -25 - 75 Connectable conductor cross section multi-wired mm² 1 - 25 Connectable conductor cross section solid-core mm² 1 - 25	Additional equipment possible		Yes
Ambient temperature during operating °C -25 - 75 Connectable conductor cross section multi-wired mm² 1 - 25 Connectable conductor cross section solid-core mm² 1 - 25	Width in number of modular spacings		4
Connectable conductor cross section multi-wired mm² 1 - 25 Connectable conductor cross section solid-core mm² 1 - 25	Degree of protection (IP)		IP20
Connectable conductor cross section solid-core mm² 1 - 25	Ambient temperature during operating	°C	-25 - 75
	Connectable conductor cross section multi-wired	mm ²	1 - 25
Explosion-proof No	Connectable conductor cross section solid-core	mm ²	1 - 25
	Explosion-proof		No