Miniature circuit breaker (MCB), 32 A, 2p, characteristic: C



Part no. PLSM-C32/2-MW Catalog No. 242408

EL-Nummer (Norway)

1609185

Similar to illustration

Dolivory program

Delivery program			
Basic function			Miniature circuit-breakers
Number of poles			2 pole
Tripping characteristic			С
Application			Switchgear for residential and commercial applications
Rated current	In	Α	32
Rated switching capacity according to IEC/EN 60898-1	I <sub>cn</sub>	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	32
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	8.1
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 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) (ecl@ss10.0.1-27-14-19-01 [AAB905014])

Release characteristic Number of poles (total) Number of protected poles Rated current Rated current Rated involtage Rated involtage Ui Rated involtage Ui Rated involtage Uimp Rated short-circuit breaking capacity Icn according to EN 60998 at 230 V Rated short-circuit breaking capacity Icn according to EN 60998 at 430 V Rated short-circuit breaking capacity Icn according to EN 60998 at 400 V Rated short-circuit breaking capacity Icn according to EN 60998 at 400 V Rated short-circuit breaking capacity Icn according to IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icn according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icn according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icn according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icn according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icn according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icn according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icn according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icn according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icn according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icn according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icn according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icn according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icn according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icn according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icn according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icn according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icn according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icn according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icn according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icn according to IEC	(ecl@ss10.0.1-27-14-19-01 [AAB905014])		, , , , , , , , , , , , , , , , , , , ,
	Built-in depth	mm	70.5
A   A   A   A   A   A   A   A   A   A	Release characteristic		С
As a comment         A         32           As a comment         V         400           As a comment         V         440           As a comment         V         440           As a comment         V         4           As a comment         V         4           As a comment         K         4           As a comment         K         10           As a comment         K         10 <td< td=""><td>Number of poles (total)</td><td></td><td>2</td></td<>	Number of poles (total)		2
Asted voltage Asted insulation voltage Uim Asted insulation voltage Uim Asted insulation voltage Uim Asted short-circuit breaking capacity Icn according to EN 60898 at 230 V Voltage type Asted short-circuit breaking capacity Icn according to EN 60898 at 400 V Asted short-circuit breaking capacity Icn according to IEC 60947-2 at 230 V Asted short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Asted short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Asted short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Asted short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Asted short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Asted short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Asted short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Asted short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Asted short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Asted short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Asted short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Asted short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Asted short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Asted short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Asted short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Asted short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Asted short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Asted short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Asted short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Asted short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Asted short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Asted short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Asted short-circuit breaking capacity	Number of protected poles		2
Asted insulation voltage Ui  Asted insulation voltage Uii  Asted insulation voltage Uiii  Asted insulation voltage Uiii  Asted insulation voltage Uiiii  Asted insulation voltage Uiiiii  Asted insulation voltage Uiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	Rated current	Α	32
Rated impulse withstand voltage Uimp Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V Roltage type 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 230 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 230 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 230 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 230 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 230 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 230 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 230 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 230 V Rated short-circuit breaki	Rated voltage	V	400
Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V  Aboltage type  According to EN 60898 at 400 V  Bated short-circuit breaking capacity Icu according to EN 60898 at 400 V  Bated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V  Bated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V  Bated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V  Bated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V  Bated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V  Bated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V  Bated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V  Bated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V  Bated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V  Bated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V  Bated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V  Bated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V  Bated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V  Bated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V  Bated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V  Bated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V  Bated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V  Bated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V  Bated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V  Bated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V  Bated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V  Bated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V  Bated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V  Bated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V  Bat	Rated insulation voltage Ui	V	440
AC Rated short-circuit breaking capacity Icu according to EN 60898 at 400 V KA 10 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V KA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V KA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V KA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V KA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V KA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V KA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V KA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V KA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V KA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V KA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V KA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V KA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V KA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V KA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V KA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V KA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V KA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V KA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V KA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V KA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V KA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V KA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V KA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V KA 0 Rated short-circuit	Rated impulse withstand voltage Uimp	kV	4
Rated short-circuit breaking capacity Icu according to EC 60947-2 at 230 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 250 -60 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 250 -60 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 250 -60 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 250 -60 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 250 -60 Rated short-circuit breaking capacity	Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V	kA	10
Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V kA 0 Requency Hz 50 - 60 Current limiting class 3 Flush-mounted installation No Concurrently switching neutral conductor No Concurrently switching neutral conductor No Concurrently switching neutral conductor 2 Concurrently switching neutral conductor 2 Concurrently switching neutral conductor No Concurrently switching neutral conductor 2 Concurrently switching neutral conductor 3	Voltage type		AC
Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V  Frequency  Hz 50 - 60  Current limiting class  Flush-mounted installation  Concurrently switching neutral conductor  No  Over voltage category  Pollution degree  Additional equipment possible  Width in number of modular spacings  Degree of protection (IP)  Ambient temperature during operating  Connectable conductor cross section multi-wired  Mm² 1 - 25  Connectable conductor cross section solid-core  M2 50 - 60  No  No  No  No  Pollution  No  No  Pollution  No  No  Pollution  No  No  Pollution  No  No  No  No  No  Pollution  No  No  No  No  No  No  No  No  No	Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V	kA	10
Frequency Current limiting class Current limiting class Currently-mounted installation Concurrently switching neutral conductor Currently switching neutral conductor  Ruse Current limiting class Substance Substan	Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V	kA	0
Current limiting class  No  Concurrently switching neutral conductor  No  Server voltage category  3  2  Additional equipment possible  Width in number of modular spacings  Ves  Lipzo  Connectable conductor cross section multi-wired  mm²  1 - 25  Connectable conductor cross section solid-core  mm²  1 - 25	Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V	kA	0
Flush-mounted installation Concurrently switching neutral conductor Over voltage category Output Concurrently switching neutral conductor Over voltage category  Pollution degree Connectable conductor cross section solid-core  No No No No No No Section No No Section No Sectio	Frequency	Hz	50 - 60
Concurrently switching neutral conductor  Over voltage category  3  Pollution degree  2  Additional equipment possible  Width in number of modular spacings  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	Current limiting class		3
Over voltage category  Over voltage category  2 Additional equipment possible  Width in number of modular spacings  Oegree of protection (IP)  Ambient temperature during operating  Connectable conductor cross section multi-wired  Connectable conductor cross section solid-core  3  Yes  Yes  P2  P2  P2  P2  P2  P2  P3  P4  P5  P5  P5  P5  P6  P7  P5  P6  P7  P7  P7  P7  P7  P7  P7  P7  P7	Flush-mounted installation		No
Pollution degree 2 Additional equipment possible Yes Width in number of modular spacings 2 Degree of protection (IP) IP20 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	Concurrently switching neutral conductor		No
Additional equipment possible  Width in number of modular spacings  Degree of protection (IP)  Ambient temperature during operating  "CC -25 - 75  Connectable conductor cross section multi-wired  mm² 1 - 25  Connectable conductor cross section solid-core  mm² 1 - 25	Over voltage category		3
Width in number of modular spacings  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	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		2
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	mm²	1 - 25
Explosion-proof No	Connectable conductor cross section solid-core	mm²	1 - 25
	Explosion-proof		No