DATASHEET - PLSM-D3,5/3N-MW



Miniature circuit breaker (MCB), 3,5A, 3pole+N, type D characteristic

Powering Business Worldwide*

Part no. PLSM-D3,5/3N-MW Catalog No. 242557

Similar to illustration

Delivery program			
Basic function			Miniature circuit-breakers
Number of poles			3 pole+N
Tripping characteristic			D
Application			Switchgear for residential and commercial applications
Rated current	In	Α	3.5
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

Jesigii verilication as per iec/en 01439			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	3.5
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	4
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
C/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.
$10.2.3.3\mbox{Verification}$ 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 7.0

Number of protected poles Image: Company of the policy of th	lechnical data Elim 7.0					
Release characteristic Robert of poles (total) Robert of poles (total) Robert of poles (total) Robert of protected poles Robert of protection poles Rob	Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)					
Number of poles (total) 4 4 Number of protected poles 2 3 Rated current A 3.5 Rated insulation voltage Uin V 40 Rated insulation voltage Uinp KV 40 Rated short-circuit breaking capacity Icn EN 60898 at 230 V KA 10 Rated short-circuit breaking capacity Icn EN 60898 at 400 V KA 0 Rated short-circuit breaking capacity Icu IEC 608947-2 at 230 V KA 0 Rated short-circuit breaking capacity Icu IEC 608947-2 at 230 V KA 0 Rated short-circuit breaking capacity Icu IEC 608947-2 at 230 V KA 0 Rated short-circuit breaking capacity Icu IEC 608947-2 at 230 V KA 0 Rated short-circuit breaking capacity Icu IEC 608947-2 at 230 V KA 0 Rated short-circuit breaking capacity Icu IEC 608947-2 at 230 V KA 0 Rated short-circuit breaking capacity Icu IEC 608947-2 at 230 V KA 0 Current limiting class KA 0 0 Current limiting class KA 1 0 0 Current limiting class						
Number of protected poles 4 3 Rated current 4 3 Rated voltage V 40 Rated insulation voltage Ui V 40 Rated simpulse withstand voltage Uimp V 4 Rated short-circuit breaking capacity Ion EN 60898 at 230 V KA 10 Rated short-circuit breaking capacity Ion EN 60898 at 400 V KA 10 Rated short-circuit breaking capacity Ion EN 60898 at 400 V KA 0 Rated short-circuit breaking capacity Iou IEC 60947-2 at 230 V KA 0 Rated short-circuit breaking capacity Iou IEC 60947-2 at 400 V KA 0 Voltage type KA 0 C Current limiting class So -60 C Suitable for flush-mounted installation Yes Yes Oncorrently switching N-neutral Yes Yes Outry voltage category Yes Yes Pollution degree Yes Yes Additional equipment possible Yes Yes With in number of modular spacings Yes Yes	Release characteristic		D			
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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 10 Rated short-circuit breaking capacity Icn EN 60898 at 400 V kA 10 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 kA 0 0 Current limiting class kA 50-60 Suitable for flush-mounted installation kA yes Concurrently switching N-neutral kY yes Over voltage category kA yes Pollution degree kY yes Additional equipment possible kY yes Width in number of modular spacings kY yes Built-in depth kY yes Degree of protection (IP) kY yes Ambient temperature during operating kY yes Connectable conductor cross section multi-wired kY yes <td>Rated current</td> <td>Α</td> <td>3.5</td>	Rated current	Α	3.5			
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Rated short-circuit breaking capacity Icn EN 60898 at 230 V kA 10 Rated short-circuit breaking capacity Icn EN 60898 at 400 V kA 10 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 Frequency 50 - 60 AC Current limiting class Suitable for flush-mounted installation Yes Yes Concurrently switching N-neutral Yes 2 2 Over voltage category Yes 2 2 Pollution degree Yes Yes Width in number of modular spacings Yes 4 Built-in depth Yes Yes Built-in depth Yes Yes Degree of protection (IP) Prov Prov Ambient temperature during operating Yes Yes Connectable conductor cross section multi-wired Yes Yes	Rated insulation voltage Ui	V	440			
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Width in number of modular spacings 4 Built-in depth 70.5 Degree of protection (IP) IP20 Ambient temperature during operating °C -25 -55 Connectable conductor cross section multi-wired mm² 1 -25	Pollution degree		2			
Built-in depth 70.5 Degree of protection (IP) P20 Ambient temperature during operating °C -25 - 55 Connectable conductor cross section multi-wired mm² 1 - 25	Additional equipment possible		Yes			
Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired IP20 -25 - 55 Connectable conductor cross section multi-wired mm² 1 - 25	Width in number of modular spacings		4			
Ambient temperature during operating °C -25 - 55 Connectable conductor cross section multi-wired mm² 1 - 25	Built-in depth	mm	70.5			
Connectable conductor cross section multi-wired mm ² 1 - 25	Degree of protection (IP)		IP20			
	Ambient temperature during operating	°C	-25 - 55			
Connectable conductor cross section solid-core mm ² 1 - 25	Connectable conductor cross section multi-wired	mm²	1 - 25			
	Connectable conductor cross section solid-core	mm²	1 - 25			