DATASHEET - PLSM-D20/3N-MW

Part no.

Catalog No.



Miniature circuit breaker (MCB), 20A, 3pole+N, type D characteristic

PLSM-D20/3N-MW

242567



Delivery program

Delivery program			
Basic function			Miniature circuit-breakers
lumber of poles			3 pole+N
ripping characteristic			D
Application			Switchgear for residential and commercial applications
Rated current	I _n	А	20
Rated switching capacity according to IEC/EN 60898-1	I _{cn}	kA	10
Product range			PLSM
echnical data lectrical			
Rated switching capacity according to IEC/EN 60898-1	I _{cn}	kA	10
Design verification as per IEC/EN 61439			
echnical data for design verification			
Rated operational current for specified heat dissipation	l _n	A	20
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	6.2
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
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.

10.11 Short-circuit rating

10.10 Temperature rise

10.9 Insulation properties

10.5 Protection against electric shock

10.8 Connections for external conductors

10.9.3 Impulse withstand voltage

10.9.2 Power-frequency electric strength

10.6 Incorporation of switching devices and components10.7 Internal electrical circuits and connections

10.9.4 Testing of enclosures made of insulating material

provide heat dissipation data for the devices. Is the panel builder's responsibility. The specifications for the switchgear must be observed.

The panel builder is responsible for the temperature rise calculation. Eaton will

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The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 7.0

Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)

Electric engineering, automation, process control engineering / Electrical installation, c (ecl@ss10.0.1-27-14-19-01 [AAB905014])	levice / Miniature cir	rcuit breaker system (MCB) / Miniature circuit breaker (MCB)
Release characteristic		D
Number of poles (total)		4
Number of protected poles		3
Rated current	А	20
Rated voltage	V	400
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		AC
Frequency	Hz	50 - 60
Current limiting class		3
Suitable for flush-mounted installation		No
Concurrently switching N-neutral		Yes
Over voltage category		3
Pollution degree		2
Additional equipment possible		Yes
Width in number of modular spacings		4
Built-in depth	mm	70.5
Degree of protection (IP)		IP20
Ambient temperature during operating	°C	-25 - 55
Connectable conductor cross section multi-wired	mm²	1 - 25
Connectable conductor cross section solid-core	mm²	1 - 25