DATASHEET - PLHT-C100/3



Miniature circuit breaker (MCB), 100A, 3p, C-Char, AC

PLHT-C100/3 Catalog No.

248040

EL-Nummer 1609527 (Norway)

Part no.



Similar to illustration

Delivery program Basic function Miniature circuit-breakers Number of poles 3 pole С Tripping characteristic Switchgear for industrial and advanced commercial applications Application Rated current I_n 100 А Rated switching capacity acc. to IEC/EN 60947-2 kΑ 20 \mathbf{I}_{CU} PI HT Product range **Technical data Electrical** Rated switching capacity acc. to IEC/EN 60947-2 kΑ 20 I_{cu} **Design verification as per IEC/EN 61439** Technical data for design verification Rated operational current for specified heat dissipation 100 I_n A $\mathsf{P}_{\mathsf{vid}}$ w 0 Heat dissipation per pole, current-dependent Equipment heat dissipation, current-dependent Pvid w 27.4 Static heat dissipation, non-current-dependent P_{vs} w 0 Heat dissipation capacity w 0 Pdiss °C -25 Operating ambient temperature min. °C Operating ambient temperature max. 55 linear, per +1 °C, results in a 0.35% 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 Meets the product standard's requirements. and fire due to internal electric effects 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. Does not apply, since the entire switchgear needs to be evaluated. 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 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

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

Electric engineering, automation, process control engineering / Electrical installation, dev (ecl@ss10.0.1-27-14-19-01 [AAB905014])	ice / Miniature ci	rcuit breaker system (MCB) / Miniature circuit breaker (MCB)
Release characteristic		C
Number of poles (total)		3
Number of protected poles		3
Rated current	А	100
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	0
Rated short-circuit breaking capacity Icn EN 60898 at 400 V	kA	0
Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V	kA	20
Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V	kA	20
Voltage type		AC
Frequency	Hz	50 - 60
Current limiting class		3
Suitable for flush-mounted installation		No
Concurrently switching N-neutral		No
Over voltage category		3
Pollution degree		2
Additional equipment possible		Yes
Width in number of modular spacings		4.5
Built-in depth	mm	75
Degree of protection (IP)		IP20
Ambient temperature during operating	°C	-25 - 55
Connectable conductor cross section multi-wired	mm²	2.5 - 50
Connectable conductor cross section solid-core	mm²	2.5 - 50