



248023 PLHT-D100/2

Overview

Specifications

Resources







DELIVERY PROGRAM

Delivery program

Technical data

Basic function
Mniature circuit-breakers

Design verification as per IEC/EN 61439

Number of poles 2 pole

Technical data ETIM7.0

Tripping characteristic

Application Switchgear f

Switchgear for industrial and advanced commercial applications

Rated current [l_n] 100 A

Rated switching capacity acc. to IEC/EN 60947-2

[l_{cu}] 15 kA

Product range

TECHNICAL DATA

Electrical

Rated switching capacity acc. to IEC/EN 60947-2 $[l_{\rm cu}]$ 15 kA

DESIGN VERIFICATION AS PER IEC/EN 61439

Technical data for design verification

Rated operational current for specified heat dissipation [I_n] 100 A

Heat dissipation per pole, current-dependent $[P_{iid}] \ 0 \ W$

Equipment heat dissipation, current-dependent $[P_{\text{vid}}]$ 18.3 W

Static heat dissipation, non-current-dependent $[P_{\!\scriptscriptstyle NS}]$ 0 W

Heat dissipation capacity $[P_{\text{diss}}]$ 0 W

Operating ambient temperature min. $-25 \, ^{\circ}\mathrm{C}$

Operating ambient temperature max. +55 °C

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 parts10.2.2 Corrosion resistanceMeets the product standard's requirements.

10.2 Strength of materials and parts10.2.3.1 Verification of thermal stability of enclosuresMeets the product standard's requirements.

10.2 Strength of materials and parts 10.2.3.2 Verification of resistance of insulating materials to normal heat Meets the product standard's requirements.

10.2 Strength of materials and parts
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 Strength of materials and parts 10.2.4 Resistance to ultra-violet (UV) radiation Meets the product standard's requirements.

10.2 Strength of materials and parts10.2.5 LiftingDoes not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts10.2.6 Mechanical impactDoes not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts10.2.7 InscriptionsMeets the product standard's requirements.

10.3 Degree of protection of ASSEVBLIES 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 Insulation properties 10.9.3 Impulse withstand voltage Is the panel builder's responsibility.

10.9 Insulation properties 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

Oircuit breakers and fuses (EG000020) / Mniature circuit breaker (MOB) (EC000042)

Electric engineering, automation, process control engineering / Electrical installation, device / Mniature circuit breaker system (MOB) / Mniature circuit breaker (MOB) (ecl@ss10.0.1-27-14-19-01 [AAB905014])

Release characteristic Number of poles (total) Number of protected poles Rated current 100 A Rated voltage 400 V Rated insulation voltage Ui 440 V Rated impulse withstand voltage Ump 4 kV Rated short-circuit breaking capacity Icn EN 60898 at 230 V 0 kA Rated short-circuit breaking capacity Icn EN 60898 at 400 V 0 kA Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V 15 kA

Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V 15 kA

Voltage type AC
Frequency 50 - 60 Hz
Ourrent limiting class
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 3
Built-in depth 75 mm
Degree of protection (IP) IP20
Ambient temperature during operating -25 - 55 °C
Connectable conductor cross section multi-wired 2.5 - 50 mm²
Connectable conductor cross section solid-core 2.5 - 50 mm²







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