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PBSM-402/003-A-MW - Residual-current circuit breaker trip block for PLS. 40A, 2 p, 30mA, type A



262328 PBSM-402/003-A-MW

Overview Specifications Resources



262328 PBSM-402/003-A-MW

Residual-current circuit breaker trip block for PLS. 40A, 2 p, 30mA, type A BL-Nummer (Norway) 1609393

Becomes a "fixed" quality residual current/power switch combination through assembly with a high-quality miniature circuit-breakers of type PLHT, for fitting to screwable) fault-current unit for 40 or 62 A (2 pole and 4 pole), great flexibility and ease of installation due to variable wiring, free selection of main supply, incl. auxiliary contact 1 N/O, as standard in all PBHT versions, large variety of variations provided by a variety of rated operational currents and characteristics of the attachable PLHT miniature circuit-breaker, for commercial and industrial applications, for retroactive attachment to 2-, 3-, 3+N-, and 4-pole PLHT miniature circuit-breakers threaded connection on PLHT switch can be loosened at any time, i.e. the Installation can be adjusted to new eventualities with no problemat any time in case of changes to the system.

- Delivery program
- Technical data

Design verification as per IEC/EN 61439

• Technical data ETIM 7.0

Delivery program

Basic function

Add-on residual current protection unit

Number of poles

2 pole

Application

Switchgear for residential and commercial applications

Rated current [In]

40 A

Rated short-circuit strength [I_{cn}]

same as connected PLS up to max. 10 kA

Rated fault current [I_{ΔN}]

0.03 A

Type

Type A

Tripping

non-delayed s...

Product range

PBSM

Sensitivity

Pulse-current sensitive

Impulse withstand current

Partly surge-proof 250 A

Technical data

Bectrical

Types conform to

IEC/EN 61009

Rated frequency [f]

50 Hz

Sensitivity

Pulse-current sensitive

Rated current [In]

40 A

Rated impulse withstand voltage [U_{imp}]

4 k\/

lifespan⊟ectrical [Operations]

□ 4000

lifespanMechanical [Operations]

 \square 20000

Mechanical

Standard front dimension

45 mm

Device height

90 mm

Built-in width

35 (2TE) mm

Mbuntina

fix mounted onto PLS

Degree of Protection

IP20. IP40 with suitable enclosure

Terminals top and bottom

Lift terminals

Terminal protection

BGV A3. ÖVE-EN6

Thickness of busbar material

0.8 - 2 mm

Permissible storage and transport temperatures

-35 - +60 °C

Climatic proofing

25-55°C/90-95% relative humidity according to IEC 60068-2

Design verification as per IEC/EN 61439

Technical data for design verification

Rated operational current for specified heat dissipation [l_n]

40 A

Heat dissipation per pole, current-dependent [P_{id}]

0 W

Equipment heat dissipation, current-dependent [Pvid]

13 W

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

0 W

Heat dissipation capacity [P_{diss}]

0 W

Operating ambient temperature min.

-25 °C

Operating ambient temperature max.

+40 °C

Starting at 40 °C, the max. permissible continuous current decreases by 3% for every 1 °C

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 Strength of materials and parts 10.2.3.1 Verification of thermal stability of enclosures

Meets the product standard's requirements.

10.2 Strength of materials and parts10.2.3.2 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 parts10.2.4 Resistance to ultra-violet (UV) radiation

Meets the product standard's requirements.

10.2 Strength of materials and parts 10.2.5 Lifting

Does not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts 10.2.6 Mechanical impact

Does not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts 10.2.7 Inscriptions

Meets 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 with stand 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

Circuit breakers and fuses (EG000020) / Residual current circuit breaker (RCCB) (EC000003)

Bectric engineering, automation, process control engineering / Bectrical installation, device / Residual current protection system/ Residual current circuit breaker (RCCB) (ecl@ss10.0.1-27-14-22-01 [AAB906014])

Number of poles

2

Rated voltage

230 V

Rated current

40 A

Rated fault current

30 mA

Rated insulation voltage Ui

440 V

Rated impulse withstand voltage Ump

114

Mounting method

DIN rail

Leakage current type

Α

Selective protection

No

Short-time delayed tripping

No

Short-circuit breaking capacity (lcw)

0 kA

Surge current capacity

0.25 kA

Frequency

50 Hz

Additional equipment possible

Yes

With interlocking device

Yes

Degree of protection (IP)

IP20

Width in number of modular spacings
4
Built-in depth
70 mm
Ambient temperature during operating
-25 - 40 °C
Pollution degree
2
Connectable conductor cross section multi-wired
0.75 - 35 mm²
Connectable conductor cross section solid-core

0.75 - 35 mm²

CAD data

• 3D Preview (Web)

DWG files

DA-CD-pbsm_2p File (Web)

edz files

DA-CE-ETN.PBSM-402_003-A-MW File (Web)

Step files

DA-CS-pbsm_2p File (Web)

Product photo



Instruction Leaflet

Add-on Residual Ourrent Protection PBSM (IL019075ZU)
 Asset
 MA180503226
 (PDF, 03/2020, Language independent)

Declaration of Conformity

EU

DA-DC-03_PBSM_180518
 Asset
 (PDF)

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