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Powering Business Worldwide

PBHT-80/4/05-A - Residual-current circuit breaker trip block for FLHT, 80A, 4 p, 500mA, type A



248832 PBHT-80/4/05-A

[Overview](#) [Specifications](#) [Resources](#)



248832 PBHT-80/4/05-A

Residual-current circuit breaker trip block for FLHT, 80A, 4 p, 500mA, type A

EL-Nummer (Norway)

1609616

Becomes a "fixed" quality residual current/power switch combination through assembly with a high-quality miniature circuit-breakers of type FLHT, for fitting to screwable fault-current unit for 80 or 125 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 NO, as standard in all PBHT versions, large variety of variations provided by a variety of rated operational currents and characteristics of the attachable FLHT miniature circuit-breaker, for commercial and industrial applications, for retroactive attachment to 2-, 3-, 3+N-, and 4-pole FLHT miniature circuit-breakers threaded connection on FLHT switch can be loosened at any time, i.e. the installation can be adjusted to new eventualities with no problem at 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

4 pole

Application

For commercial and industry applications

Rated current [I_n]

80 A

Rated short-circuit strength [I_{cn}]

same as connected FLHT kA

Rated fault current [$I_{\Delta N}$]

0.5 A

Type

Type A

Tripping

non-delayed s...

Product range

PBHT

Sensitivity

Pulse-current sensitive

Impulse withstand current

Partly surge-proof 250 A

Technical data

Electrical
 Types conform to
 IEC/EN 60947-2
 Rated frequency [f]
 50 Hz
 Sensitivity
 Pulse-current sensitive
 Rated current [I_n]
 80 A
 Rated impulse withstand voltage [U_{imp}]
 4 kV
 lifespanElectrical [Operations]
 □ 1500
 lifespanMechanical [Operations]
 □ 10000
 Mechanical
 Standard front dimension
 45 mm
 Device height
 90 mm
 Built-in width
 95 (5.5TE) mm
 Mounting
 screwed onto FLHT
 Degree of Protection
 IP20, IP40 with suitable enclosure
 Terminals top and bottom
 Lift terminals
 Terminal protection
 DGVV VS3, EN 50274
 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 [I_n]
 80 A
 Heat dissipation per pole, current-dependent [P_{vid}]
 0 W
 Equipment heat dissipation, current-dependent [P_{vid}]
 7 W
 Static heat dissipation, non-current-dependent [P_{vs}]
 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 parts10.2.2 Corrosion resistance
 Meets the product standard's requirements.
 10.2 Strength of materials and parts10.2.3.1 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 parts10.2.3.3 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 parts10.2.5 Lifting
 Does not apply, since the entire switchgear needs to be evaluated.
 10.2 Strength of materials and parts10.2.6 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 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 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

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

Electric engineering, automation, process control engineering / Electrical installation, device / Residual current protection system / Residual current circuit breaker (RCCB) (ec1@ss10.0.1-27-14-22-01 [AAB906014])

Number of poles

4

Rated voltage

400 V

Rated current

80 A

Rated fault current

500 mA

Rated insulation voltage U_i

440 V

Rated impulse withstand voltage U_{imp}

4 kV

Mounting method

DIN rail

Leakage current type

A

Selective protection

No

Short-time delayed tripping

No

Short-circuit breaking capacity (I_{cw})

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

5.5

Built-in depth
70 mm
Ambient temperature during operating
-25 - 40 °C
Pollution degree
2
Connectable conductor cross section multi-wired
2.5 - 50 mm²
Connectable conductor cross section solid-core
2.5 - 50 mm²

CAD data

- [3D Preview](#)
(Web)

DWG files

- [DA-CD-pbht_4p](#)
File
(Web)

edz files

- [DA-CE-ETN.FBHT-80_4_05-A](#)
File
(Web)

Step files

- [DA-CS-pbht_4p](#)
File
(Web)

Product photo



sg17711

Photo

Residual-current circuit breaker trip block for FLHT, 125A, 4p, 300 mA, type S/A

Instruction Leaflet

- [Add-on Residual Current Protection Unit \(IL019157ZU\)](#)
Asset
MA180503259
(PDF, 01/2020, Language independent)

Declaration of Conformity

EU

- [DA-DC-03_FBHT_111017](#)
Asset
(PDF)

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