Powering Business Worldwide

PBHT-80/2/03-A - Residual-current circuit breaker trip block for PLHT, 80A, 2 p, 300mA, type A

248821 PBHT-80/2/03-A

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Residual-current circuit breaker trip block for PLHT, 80A, 2 p, 300mA, type A

EL-Nummer (Norway) 1609620

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 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 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 problem at any time in case of changes to the system.

Delivery program

Basic function
Add-on residual current protection unit
Number of poles
2 pole
Application
For commercial and industry applications
Rated current [I_n]
80 A
Rated short-circuit strength [I_{cn}]
same as connected PLHT kA
Rated fault current [$I_{\Delta N}$]
0.3 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 PLHT
Degree of Protection
IP20, IP40 with suitable enclosure
Terminals top and bottom
Lift terminals
Terminal protection
DGUV 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}]
4.7 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 parts10.2.7 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 properties10.9.2 Power-frequency electric strength
Is the panel builder's responsibility.
10.9 Insulation properties10.9.3 Impulse withstand voltage
Is the panel builder's responsibility.
10.9 Insulation properties10.9.4 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) (ecl@ss10.0.1-27-14-22-01 [AAB906014])
Number of poles
2
Rated voltage
230 V
Rated current
80 A
Rated fault current
300 mA
Rated insulation voltage Ui
440 V
Rated impulse withstand voltage Uimp
4 kV
Mounting method
DIN rail
Leakage current type
A
Selective protection
No
Short-time delayed tripping
No
Short-circuit breaking capacity (Icw)
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_2p
  File
  (Web)

edz files

- DA-CE-ETN.PBHT-80_2_03-A
  File
  (Web)

Step files

- DA-CS-pbht_2p
  File
  (Web)

Product photo

- 
  sg17611
  Photo
  Residual-current circuit breaker trip block for PLHT

Instruction Leaflet

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

Declaration of Conformity

EU

- DA-DC-03_PBHT_111017
  Asset
  (PDF)

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