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FBSM-633/003-A-MW - Residual-current circuit breaker trip block for FLS. 63A, 3 p, 30mA, type A



262561 FBSM-633/003-A-MW

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262561 FBSM-633/003-A-MW

Residual-current circuit breaker trip block for FLS. 63A, 3 p, 30mA, type A

EL-Nummer (Norway)

1609396

Becomes a "fixed" quality residual current/power switch combination through assembly with a high-quality miniature circuit-breakers of type FLHT, for fitting to screw able) 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 FBHT 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

Basic function
Add-on residual current protection unit
Number of poles
3 pole
Application
Switchgear for residential and commercial applications
Rated current [I_n]
63 A
Rated short-circuit strength [I_{cn}]
same as connected FLS up to max. 10 kA
Rated fault current [$I_{\Delta N}$]
0.03 A
Type
Type A
Tripping
non-delayed s...
Product range
FBSM
Sensitivity
Pulse-current sensitive
Impulse withstand current
Partly surge-proof 250 A

Technical data

Electrical
Rated frequency [f]
50 Hz
Sensitivity
Pulse-current sensitive
Rated current [I_n]
63 A
Rated impulse withstand voltage [U_{imp}]
4 kV
lifespanElectrical [Operations]
☐ 4000
lifespanMechanical [Operations]
☐ 20000
Mechanical
Standard front dimension
45 mm
Device height
90 mm
Built-in width
107.5 (3TE) mm
Mounting
fix mounted onto FLS

Degree of Protection
 IP40, IP54 (with moisture-proof 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 [I_n]
 63 A
 Heat dissipation per pole, current-dependent [P_{ud}]
 0 W
 Equipment heat dissipation, current-dependent [P_{ud}]
 23 W
 Static heat dissipation, non-current-dependent [P_s]
 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 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 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 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 (L) 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) (ecI@ss10.0.1-27-14-22-01 [AAB906014])
 Number of poles
 3
 Rated voltage
 400 V
 Rated current
 63 A
 Rated fault current

30 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 (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
6.14
Built-in depth
70 mm
Ambient temperature during operating
-25 - 40 °C
Pollution degree
2
Connectable conductor cross section multi-wired
0.75 - 16 mm²
Connectable conductor cross section solid-core
0.75 - 16 mm²

CAD data

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

Manual

- [DA-MN-180503226](#)
Manual
(PDF, german)

Product photo



Photo

FI trip block

Product photo


Photo

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