



193848 NmRB6-13/3N/C/01-A

Overview

Specifications

Resources







DELIVERY PROGRAM

Delivery program

Technical data

Basic function Combined ROD/MOB devices

Design verification as per IEC/EN 61439

Number of poles 3 pole+N

Tripping characteristic C

Technical data ETIM8.0

Application Switchgear for residential and commercial applications

Rated current [l_n] 13 A

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

[l_{cu}] 6 kA

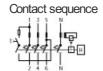
Rated switching capacity according to IEC/EN 61009

Product range NmRB6

non-delayed s...

Sensitivity
Pulse-current sensitive

Impulse withstand current Partly surge-proof 250 A



TECHNICAL DATA

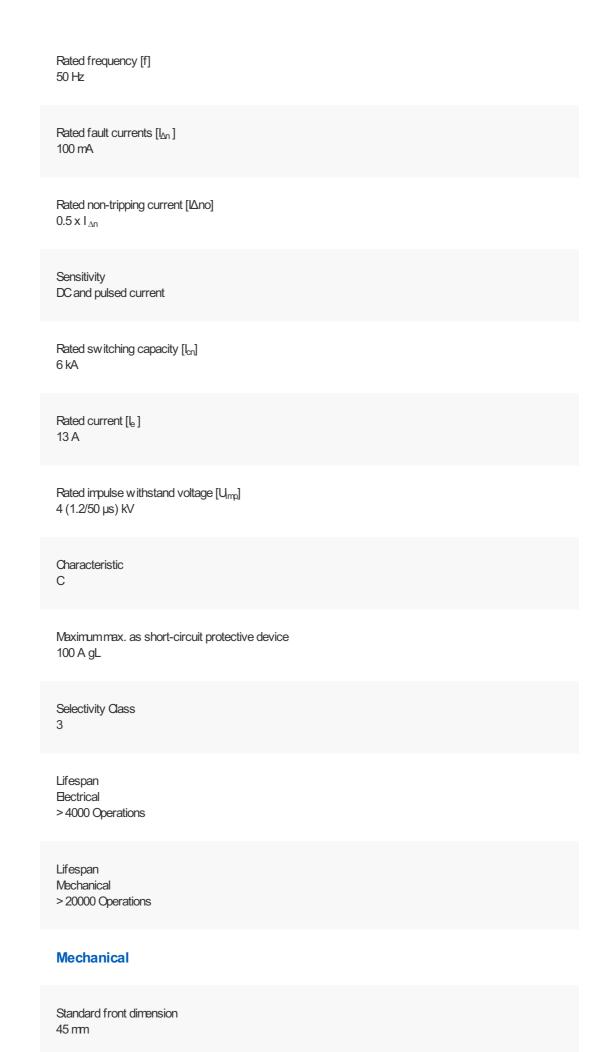
Electrical

Standards IEC/EN 61009

Tripping non-delayed s...

Rated operating voltage $[U_e]$ 230/400 V AC

Limit values of the operating voltage $0.85 \times 1.1 \times Uh \ V \ AC$



Terminal protection finger and hand touch safe, DGUV VS3, EN 50274 Mounting width 70 (4 SU) mm Mounting Tristable slide catch enables removal from existing combination. Degree of protection Switch IP20 Degree of protection Integrated IP40 Terminals top and bottom Twin-purpose terminals Terminal capacities Solid 1 - 25 mm² Thickness of busbar material $0.8 \dots 2 \, mm$ Admissible ambient temperature range -25 ... +40 °C

DESIGN VERIFICATION AS PER IEC/EN 61439

Technical data for design verification

according to IEC 68-2 (25 - 55 °C, 90 - 95 %

Climatic proofing

Humidity)

Enclosure height

80 mm

Rated operational current for specified heat dissipation [I_n] 13 A

Equipment heat dissipation, current-dependent $[P_{id}]$ 9.4 W

Operating ambient temperature min. -25 °C

Operating ambient temperature max. +40 °C

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 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 heatMeets 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 Weets the product standard's requirements.

10.2 Strength of materials and parts 10.2.4 Resistance to ultra-violet (UV) radiation Weets 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

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 properties10.9.4 Testing of enclosures made of insulating materialIs 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 8.0

Oircuit breakers and fuses (EG000020) / Earth leakage circuit breaker (EC000905)

Bectric engineering, automation, process control engineering / Bectrical installation, device / Residual current protection system/ MOB/RCOB combination (ecl@ss10.0.1-27-14-22-07 [AFZ810015])

Number of poles (total)

4

Number of protected poles

4

Rated voltage 400 V

Rated insulation voltage Ui 500 V

Rated impulse withstand voltage Ump 4 kV

Rated current 13 A

Rated fault current 0.1 A

Leakage current type

Ourrent limiting class
Rated short-circuit breaking capacity according to EN 61009 6 kA
Rated short-circuit breaking capacity according to IEC 60947-2 6 kA
Rated short-circuit breaking capacity Icn according to EN 61009-1 6 kA
Disconnection characteristic Undelayed
Surge current capacity 0.25 kA
Voltage type AC
Frequency 50 Hz
Release characteristic C
Concurrently switching neutral conductor Yes
With interlocking device No
Over voltage category 3
Pollution degree 2

Ambient temperature during operating -25 - 40 °C

Width in number of modular spacings
4

Built-in depth
70 mm

Flush-mounted installation
No

Anti-nuisance tripping version
No

Degree of protection (IP)
IP20

Connectable conductor cross section solid-core
1 - 25 mm²

Connectable conductor cross section multi-wired
1 - 25 mm²



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