





193842 NmRB6-6/3N/C/003-A







Specifications



Resources







## **DELIVERY PROGRAM**

Delivery program >

Technical data >

Design verification as per IEC/EN 61439 >

Technical data ETIM8.0 >

Basic function

Combined RCD/MCB devices

Number of poles 3 pole+N

Tripping characteristic С

Application

Switchgear for residential and commercial applications

Rated current [In]

6 A

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

 $[l_{cu}]$ 

6kA

Rated switching capacity according to IEC/EN 61009

Rated fault current [ $I_{\Delta N}$ ] 0.03 A

Type Type A

Tripping non-delayed s...

Product range NmRB6

Sensitivity
Pulse-current sensitive

Impulse withstand current Partly surge-proof 250 A

Contact sequence



# **TECHNICAL DATA**

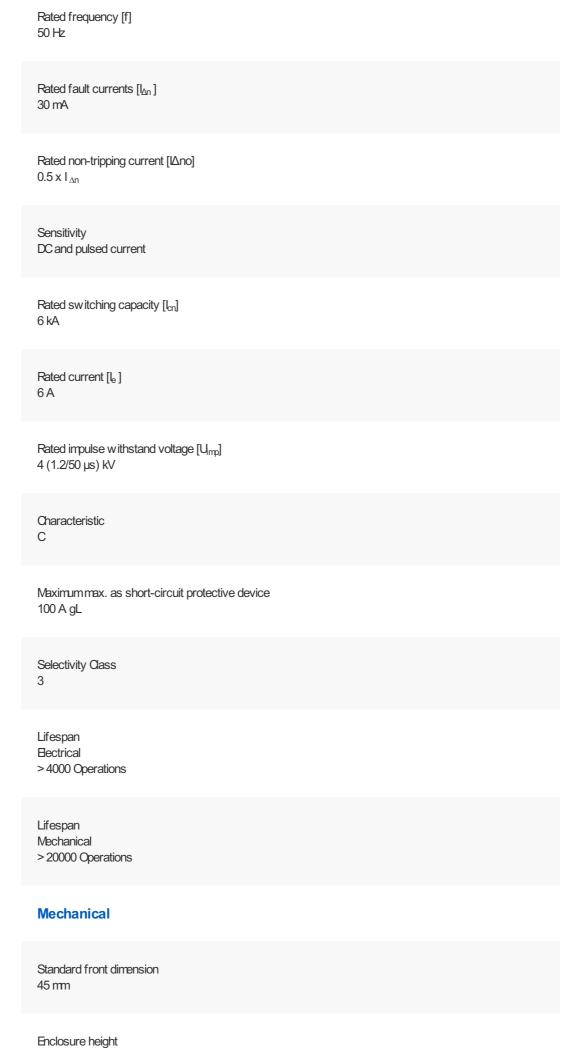
### **Electrical**

Standards IEC/EN 61009

Tripping non-delayed s...

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

Limit values of the operating voltage  $0.85 \times 1.1 \times \text{Un V AC}$ 



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 mm<sup>2</sup>

Thickness of busbar material 0.8 ... 2 mm

Admissible ambient temperature range -25  $\dots$  +40 °C

Olimatic proofing according to IEC 68-2 (25 - 55 °C, 90 - 95 % Humidity)

# **DESIGN VERIFICATION AS PER IEC/EN 61439**

Technical data for design verification

Rated operational current for specified heat dissipation  $[\mbox{\ensuremath{|}}_l]$ 

Equipment heat dissipation, current-dependent  $\left[P_{id}\right]$  10.9 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 parts10.2.3.1 Verification of thermal stability of enclosuresMeets 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 Meets 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 to be evaluated.

10.2 Strength of materials and parts10.2.7 InscriptionsWeets 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 Weets 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 Bectromagnetic 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**

Circuit breakers and fuses (EG000020) / Earth leakage circuit breaker (EC000905) Bectric engineering, automation, process control engineering / Bectrical installation, device / Residual current protection system/ MOB/ROOB combination (ecl@ss10.0.1-27-14-22-07 [AFZ810015]) Number of poles (total) Number of protected poles Rated voltage 400 V Rated insulation voltage Ui 500 V Rated impulse withstand voltage Ump 4 kV

Rated current

6 A

Rated fault current 0.03 A

Leakage current type

3	
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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