

NmRB6-16/3N/C/003-A - RCD/MCB combination, 16 A, 30 mA, MCB trip characteristic: C, 3p+N, RCD trip characteristic: A



193845 NmRB6-16/3N/C/003-A







**Specifications** 



Resources









## **DELIVERY PROGRAM**

Delivery program >

Technical data >

Number of poles

Combined RCD/MCB devices

Basic function

Design verification as per IEC/EN 61439 >

3 pole+N

Tripping characteristic

С

Technical data ETIM 6.0

**Application** Switchgear for residential and commercial applications

Rated current [In] 16 A

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

 $[l_{cu}]$ 

6 kA

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**

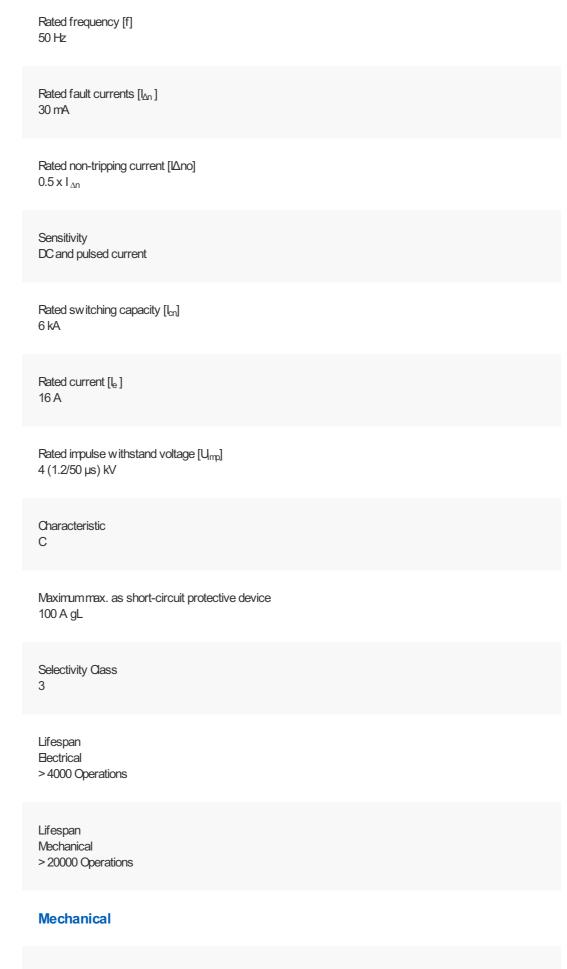
#### **Electrical**

Standards IEC/EN 61009

Tripping non-delayed s...

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

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



Standard front dimension 45 mm

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  $0.8 \dots 2 \, mm$ Admissible ambient temperature range -25 ... +40 °C

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

Enclosure height

80 mm

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

Technical data for design verification

Rated operational current for specified heat dissipation [ $I_{\eta}$ ] 16 A

Equipment heat dissipation, current-dependent  $[P_{id}] \\ 10.9 \, W$ 

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
Meets 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 to enclosures without lifting aids.

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 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 properties10.9.3 Impulse withstand voltageIs 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 ( $\rm IL$ ) is observed. **TECHNICAL DATA ETIM 6.0** Circuit breakers and fuses (EC000020) / Earth leakage circuit breaker (EC000905) Bectric engineering, automation, process control engineering / Bectrical installation, device / Residual current protection system/ MOB/ROOB combination (ecl@ss8.1-27-14-22-07 [AFZ810012]) Number of poles (total)

Number of protected poles Nominal rated voltage 400 V Nominal rated current 16 A Rated fault current 0.03 A Leakage current type **Current limiting class** 

Rated short-circuit breaking capacity EN 60898 6 kA

|  | 0 kA  |
|--|---|
|  | Frequency<br>50 Hz                            |
|  | Release characteristic<br>C                   |
|  | Concurrently switching N-neutral<br>Yes       |
|  | Over voltage category 3                       |
|  | Pollution degree 2                            |
|  | Width in number of modular spacings 4         |
|  | Built-in depth<br>70 mm                       |
|  | Suitable for flush-mounted installation<br>No |
|  | Degree of protection (IP) IP20                |
|  | Surge current capacity 0.25 kA                |
|  | Voltage type<br>AC                            |
|  | Antinuisance tripping version No              |
|  |   |



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