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NmRBM-16/2/B/01-A - RCD/MCB combination, 16 A, 100 mA, MCB trip characteristic: B, 2p, RCD trip characteristic: A



193781 NmRBM-16/2/B/01-A

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# 193781 NmRBM-16/2/B/01-A

RCD/MCB combination, 16 A, 100 mA, MCB trip characteristic: B, 2p, RCD trip characteristic: A  
EL-Nummer (Norway) 1667508

RCD/MCB combination switch, NmRBM, 2-pole, tripping characteristic: B, rated current  $I_n$ : 16 A, rated switching capacity according to IEC/EN 61009: 10 kA, rated fault current: 0.1 A, pulse-current sensitive, partly surge-proof 250 A

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## Delivery program

Basic function  
Combined RCD/MCB devices  
Number of poles  
2 pole  
Tripping characteristic  
B  
Application  
Switchgear for residential and commercial applications  
Rated current [ $I_n$ ]  
16 A  
Rated switching capacity according to IEC/EN 61009  
10 kA  
Rated fault current [ $I_{\Delta N}$ ]  
0.1 A  
Type

Type A  
Tripping  
non-delayed s...  
Product range  
NrRBM  
Sensitivity  
Pulse-current sensitive  
Impulse withstand current  
Partly surge-proof 250 A

## Technical data

Electrical  
Standards  
IEC/EN 61009  
Rated operational voltage [ $U_n$ ] [ $U_n$ ] Rated operating voltage [ $U_n$ ]  
230 V AC  
Rated frequency [ $f$ ]  
50 Hz  
Limit values of the operating voltage  
 $0.85 \times 1.1 \times U_n$  V AC  
Rated fault currents [ $I_{\Delta n}$ ]  
100 mA  
Rated non-tripping current [ $I_{\Delta no}$ ]  
 $0.5 \times I_{\Delta n}$   
Sensitivity  
Pulse-current sensitive  
Sensitivity  
DC and pulsed current  
Rated switching capacity [ $I_{cn}$ ]  
10 kA  
Rated current [ $I_n$ ]  
16 A  
Rated impulse withstand voltage [ $U_{imp}$ ]  
4 (1.2/50  $\mu$ s) kV  
Characteristic  
B  
Selectivity Class  
3  
Mechanical  
Standard front dimension  
45 mm  
Enclosure height Enclosure width  
80 mm  
Mounting  
Tristable slide catch enables removal from existing combination.  
Terminals top and bottom  
Twin-purpose terminals  
Terminal protection  
finger and hand touch safe, DGUV VS3, EN 50274  
Degree of protection Switch  
IP20  
Degree of protection Integrated  
IP40  
Terminal cross-section Solid  
1 - 25 mm<sup>2</sup>  
Admissible ambient temperature range  
-25 ... +40 °C  
Climatic proofing  
according to IEC 68-2 (25 - 55 °C, 90 - 95 % Humidity)  
Thickness of busbar material Material thickness  
0.8 ... 2 mm

## Design verification as per IEC/EN 61439

Technical data for design verification  
Rated operational current for specified heat dissipation [ $I_t$ ]  
16 A  
Equipment heat dissipation, current-dependent [ $P_{id}$ ]  
5 W

Operating ambient temperature min.

-25 °C

Operating ambient temperature max.

+40 °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 (IL) is observed.

## Technical data ETIM 8.0

Circuit breakers and fuses (EG000020) / Earth leakage circuit breaker (EC0000905)

Electric engineering, automation, process control engineering / Electrical installation, device / Residual current protection system / MCB/ROCB combination (ecl@ss10.0.1-27-14-22-07 [AFZ810015])

Number of poles (total)

2

Number of protected poles

2

Rated voltage

230 V

Rated insulation voltage  $U_i$

250 V

Rated impulse withstand voltage  $U_{imp}$

4 kV

Rated current

16 A

Rated fault current

0.1 A

Leakage current type  
 A  
 Current limiting class  
 3  
 Rated short-circuit breaking capacity according to EN 61009  
 10 kA  
 Rated short-circuit breaking capacity according to IEC 60947-2  
 0 kA  
 Rated short-circuit breaking capacity I<sub>cn</sub> according to EN 61009-1  
 10 kA  
 Disconnection characteristic  
 Undelayed  
 Surge current capacity  
 0.25 kA  
 Voltage type  
 AC  
 Frequency  
 50 Hz  
 Release characteristic  
 B  
 Concurrently switching neutral conductor  
 No  
 With interlocking device  
 No  
 Over voltage category  
 3  
 Pollution degree  
 2  
 Ambient temperature during operating  
 -25 - 40 °C  
 Width in number of modular spacings  
 2  
 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 mm<sup>2</sup>  
 Connectable conductor cross section multi-wired  
 1 - 25 mm<sup>2</sup>

## Product photo



[wa\\_sg86719\\_c](#)

Photo



[wa\\_sg86719\\_l](#)

Photo



[wa\\_sg86719\\_r](#)

Photo

# Declaration of Conformity

- [DA-DC-03\\_NrRB-2](#)  
Asset  
(PDF, 07/2021)

## EU

- [DA-DC-03\\_NrRB.2\\_070218](#)  
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