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Powering Business Worldwide

NmRB6-16/3NC/01-A - RCD/MCB combination, 16 A, 100 mA, MCB trip characteristic: C, 3p+N, RCD trip characteristic: A



193849 NmRB6-16/3NC/01-A

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193849 NmRB6-16/3N/C/01-A

RCD/MCB combination, 16 A, 100 mA, MCB trip characteristic: C, 3p+N, RCD trip characteristic: A
EL-Nummer (Norway) 1667548

RCD/MCB combination switch, NmRB6, 3-pole+N, tripping characteristic: C, rated current I_n : 16 A, rated fault current: 0.1 A, rated switching capacity according to IEC/EN 60947-2 I_{cs}/I_{cu} : 3 kA/6 kA, rated switching capacity according to IEC/EN 61009: 6 kA

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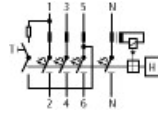


- Delivery program
- Technical data
- Design verification as per IEC/EN 61439
- Technical data ETIM 6.0

Delivery program

Basic function
Combined RCD/MCB devices
Number of poles
3 pole+N
Tripping characteristic
C
Application
Switchgear for residential and commercial applications
Rated current [I_n]
16 A
Rated switching capacity acc. to IEC/EN 60947-2 [I_{cu}]
6 kA
Rated switching capacity according to IEC/EN 61009
6 kA
Rated fault current [I_{AN}]

0.1 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_n]
 230/400 V AC
 Limit values of the operating voltage
 0.85 x 1.1 x U_n V AC
 Rated frequency [f]
 50 Hz
 Rated fault currents [$I_{\Delta n}$]
 100 mA
 Rated non-tripping current [$I_{\Delta no}$]
 0.5 x $I_{\Delta n}$
 Sensitivity
 DC and pulsed current
 Rated switching capacity [I_{cn}]
 6 kA
 Rated current [I_n]
 16 A
 Rated impulse withstand voltage [U_{imp}]
 4 (1.2/50 μ s) kV
 Characteristic
 C
 Maximum max. as short-circuit protective device
 100 A gL
 Selectivity Class
 3
 LifespanElectrical
 > 4000 Operations
 LifespanMechanical
 > 20000 Operations
 Mechanical
 Standard front dimension
 45 mm
 Enclosure height
 80 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 protectionSwitch
 IP20
 Degree of protectionIntegrated
 IP40
 Terminals top and bottom
 Twin-purpose terminals
 Terminal capacitiesSolid

1 - 25 mm²
Thickness of busbar material
0.8 ... 2 mm
Admissible ambient temperature range
-25 ... +40 °C
Climatic 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 [I_n]
16 A
Equipment heat dissipation, current-dependent [P_{vid}]
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 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 to enclosures without lifting aids.
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 6.0

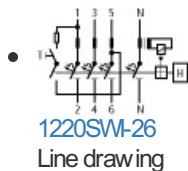
Circuit breakers and fuses (EG000020) / Earth leakage circuit breaker (EC000905)
Electric engineering, automation, process control engineering / Electrical installation, device / Residual current protection system / MCB/RCB combination (ecl@ss8.1-27-14-22-07 [AFZ810012])

Number of poles (total)
4
Number of protected poles
3
Nominal rated voltage
400 V
Nominal rated current
16 A
Rated fault current
0.1 A
Leakage current type
A
Current limiting class
3
Rated short-circuit breaking capacity EN 60898
6 kA
Rated short-circuit breaking capacity IEC 60947-2
0 kA
Frequency
50 Hz
Release characteristic
C
Concurrently switching N-neutral
Yes
Over voltage category
3
Pollution degree
2
Width in number of modular spacings
4
Built-in depth
70 mm
Suitable for flush-mounted installation
No
Degree of protection (IP)
IP20
Surge current capacity
0.25 kA
Voltage type
AC
Antinuisance tripping version
No

Product photo

- 
wa_sg91619_c
Photo
- 
wa_sg91619_l
Photo
- 
wa_sg91619_r
Photo

Wiring diagram



Declaration of Conformity

- [DA-DC-03_NrRB-3N](#)
Asset
(PDF, 07/2021)

EU

- [DA-DC-03_NrRB.3](#)
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