## General specifications

Product name
Part no.
EAN
Product Length/Depth
Product height
Product width
Product weight
Compliances
Certifications
Product Tradename
Product Type
Product Sub Type
Delivery program

## Application

Type
Circuit breaker frame type
Number of poles
Amperage Rating
Features

Special features

Voltage rating
Rated operating voltage (Ue) at AC - max
Rated insulation voltage (Ui)
Current rating (lu) at $40^{\circ} \mathrm{C}$ with terminal jumpers
Current rating (lu) at $65^{\circ} \mathrm{C}$ with terminal jumpers
Rated conditional short-circuit current (lq)
Rated operational current
Rated permanent current at AC-21, 400 V
Rated permanent current at AC-23, 400 V
Rated short-time withstand current (Icw)
Rated short-time withstand current ( $\mathrm{t}=0.1 \mathrm{~s}$ )
Rated operating power at AC-3, 400 V
Rated operating power at AC-23, 400 V
Switching power at 400 V
Electrical connection type of main circuit
Number of operations per hour - max
Handle type
Utilization category

Eaton Moeller series NZM switch-disconnector
N4-4-800-S15-DC
4015081629213
401 millimetre
207 millimetre
280 millimetre
22.723 kilogram

RoHS conform
IEC
NZM
Switch-disconnector
None

## Open areas Utility buildings

DC switch-disconnector Switch-disconnector N4

Four-pole

## 800 A

Remote operation with shunt releases / remote operator
Motor drive optional
Version as emergency stop installation
Version as maintenance-/service switch
Version as main switch
IEC/EN 60947-3 CCC China Compulsory Certificate Main switch characteristics including positive drive to IEC/EN 60204 and VDE 0113. Isolating characteristics to IEC/EN 60947-3 and VDE 0660. N switch-disconnectors can, in addition, be combined with NZM...-XU, NZM...-XA shunt releases and auxiliary contacts as well as with NZM...-XR... remote operator. For DC switching, all 4 contacts must be connected in series. Refer to the information on jumper kit accessories. Supplied as standard: Screw connection box terminal optional. When working with ungrounded systems (e.g., IT), the installation must ensure that a double ground fault will be impossible. Switch can not be combined with plug-in/withdrawable units and/or connection on rear. Lifespan, mechanical: of which max. $50 \%$ trip by shunt/undervoltage release Rated current = rated uninterrupted current: 800 A Values for rated uninterrupted current at $65^{\circ} \mathrm{C}$ include jumpers.

## $1500 \mathrm{~V}-1500 \mathrm{~V}$

0 V
1500 V
800 A
800 A
0 kA
800 A (DC 22-A)
0 A
0 A
34 kA
34 kA
0 kW
0 kW
0 kW
Screw connection

## 60

Rocker lever
DC-22 A

| Overvoltage category | III |
| :---: | :---: |
| Pollution degree | 3 |
| Technical Data - Mechanical |  |
| Mounting Method | Built-in device fixed built-in technique Intermediate mounting <br> Fixed <br> Ground mounting <br> Distribution board installation |
| Degree of protection | IP20 |
| Degree of protection (IP), front side | IP20 |
| Number of auxiliary contacts (change-over contacts) | 0 |
| Number of auxiliary contacts (normally closed contacts) | 0 |
| Number of auxiliary contacts (normally open contacts) | 0 |
| Number of switches | 1 |
| Handle color | Black |
| Switch positions | I, + , 0 |
| Special features | IEC/EN 60947-3 CCC China Compulsory Certificate Main switch characteristics including positive drive to IEC/EN 60204 and VDE 0113. Isolating characteristics to IEC/EN 60947-3 and VDE 0660. N switch-disconnectors can, in addition, be combined with NZM...-XU, NZM...-XA shunt releases and auxiliary contacts as well as with NZM...-XR... remote operator. For DC switching, all 4 contacts must be connected in series. Refer to the information on jumper kit accessories. Supplied as standard: Screw connection box terminal optional. When working with ungrounded systems (e.g., IT), the installation must ensure that a double ground fault will be impossible. Switch can not be combined with plug-in/withdrawable units and/or connection on rear. Lifespan, mechanical: of which max. $50 \%$ trip by shunt/undervoltage release Rated current = rated uninterrupted current: 800 A Values for rated uninterrupted current at $65{ }^{\circ} \mathrm{C}$ include jumpers. |
| Lifespan, mechanical | 10000 operations |
| Technical Data - Mechanical - Terminals |  |
| Standard terminals | Screw terminal |
| Terminal capacity (aluminum stranded conductor/cable) | $50 \mathrm{~mm}^{2}-240 \mathrm{~mm}^{2}(4 x)$ at 4-hole tunnel terminal |
| Terminal capacity (copper busbar) | Max. $80 \mathrm{~mm} \times 10 \mathrm{~mm}(2 \mathrm{x})$ direct at switch rear-side connection Min. $25 \mathrm{~mm} \times 5 \mathrm{~mm}$ direct at switch rear-side connection Max. $50 \mathrm{~mm} \times 10 \mathrm{~mm}(2 \mathrm{x})$ direct at switch rear-side connection M10 at rear-side screw connection <br> Min. $60 \mathrm{~mm} \times 10 \mathrm{~mm}$ at rear-side width extension Max. $10 \mathrm{~mm} \times 80 \mathrm{~mm}(2 \mathrm{x})$ at rear-side width extension Max. $50 \mathrm{~mm} \times 10 \mathrm{~mm}(2 \mathrm{x})$ at rear-side 1-hole module plate $50 \mathrm{~mm} \times 10 \mathrm{~mm}(2 \mathrm{x})$ at rear-side 2-hole module plate Min. $25 \mathrm{~mm} \times 5 \mathrm{~mm}$ at rear-side 1-hole module plate |
| Terminal capacity (copper solid conductor/cable) | $120 \mathrm{~mm}^{2}-300 \mathrm{~mm}^{2}(1 \mathrm{x})$ at rear-side 1-hole module plate $95 \mathrm{~mm}^{2}-240 \mathrm{~mm}^{2}(6 \mathrm{x})$ at rear-side width extension $95 \mathrm{~mm}^{2}-185 \mathrm{~mm}^{2}(2 \mathrm{x})$ at rear-side 2-hole module plate $300 \mathrm{~mm}^{2}(4 \mathrm{x})$ at rear-side width extension $35 \mathrm{~mm}^{2}-185 \mathrm{~mm}^{2}(4 \mathrm{x})$ at rear-side 2-hole module plate $50 \mathrm{~mm}^{2}-240 \mathrm{~mm}^{2}(4 \mathrm{x})$ at 4-hole tunnel terminal $95 \mathrm{~mm}^{2}-300 \mathrm{~mm}^{2}(2 \mathrm{x})$ at rear-side 1-hole module plate |
| Terminal capacity (copper stranded conductor/cable) | $120 \mathrm{~mm}^{2}-185 \mathrm{~mm}^{2}$ ( 1 x ) direct at switch rear-side connection $50 \mathrm{~mm}^{2}-185 \mathrm{~mm}^{2}(4 \mathrm{x})$ direct at switch rear-side connection $25 \mathrm{~mm}^{2}-120 \mathrm{~mm}^{2}(2 \mathrm{x})$ at box terminal $35 \mathrm{~mm}^{2}-240 \mathrm{~mm}^{2}(1 \mathrm{x})$ at box terminal |
| Terminal capacity (copper strip) | 10 segments of $50 \mathrm{~mm} \times 1 \mathrm{~mm}(2 \mathrm{x})$ at 1 -hole module plate Min. 6 segments of $16 \mathrm{~mm} \times 0.8 \mathrm{~mm}$ at flat conductor terminal Min. 10 segments of $50 \mathrm{~mm} \times 1 \mathrm{~mm}(2 \mathrm{x})$ at rear-side connection (punched) 10 segments of $80 \mathrm{~mm} \times 1 \mathrm{~mm}(2 \mathrm{x})$ at rear-side width extension Max. 10 segments of $32 \mathrm{~mm} \times 1 \mathrm{~mm}(2 \mathrm{x})$ at flat conductor terminal Max. 10 segments of $50 \mathrm{~mm} \times 1 \mathrm{~mm}(2 \mathrm{x})$ at rear-side connection (punched) |
| Design verification as per IEC/EN 61439 - technical data |  |
| Rated operational current for specified heat dissipation (In) | 800 A |
| Equipment heat dissipation, current-dependent | 95 W |
| Ambient operating temperature - min | $-25^{\circ} \mathrm{C}$ |
| Ambient operating temperature - max | $70^{\circ} \mathrm{C}$ |
| Ambient storage temperature - min | $40^{\circ} \mathrm{C}$ |
| Ambient storage temperature - max | $70^{\circ} \mathrm{C}$ |
| Design verification as per IEC/EN 61439 |  |
| 10.2.2 Corrosion resistance | Meets the product standard's requirements. |
| 10.2.3.1 Verification of thermal stability of enclosures | Meets the product standard's requirements. |
| 10.2.3.2 Verification of resistance of insulating materials to normal heat | Meets the product standard's requirements. |
| 10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects | Meets the product standard's requirements. |


| 10.2.4 Resistance to ultra-violet (UV) radiation | Meets the product standard's requirements. |
| :---: | :---: |
| 10.2.5 Lifting | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.2.6 Mechanical impact | Does not apply, since the entire switchgear needs to be evaluated. |
| 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. |
| 10.9.2 Power-frequency electric strength | Is the panel builder's responsibility. |
| 10.9.3 Impulse withstand voltage | Is the panel builder's responsibility. |
| 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. |
| Additional information |  |
| Functions | Disconnectors/main switches Photovoltaic applications Interlockable Voltage release optional |

## Technical data ETIM 9.0

Low-voltage industrial components (EG000017) / Switch disconnector (low voltage) (ECOOO216)
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss13-27-37-14-03 [AKF060018]

| Version as main switch |  | Yes |
| :---: | :---: | :---: |
| Version as maintenance-/service switch |  | Yes |
| Version as safety switch |  | No |
| Version as emergency stop installation |  | Yes |
| Version as reversing switch |  | No |
| Number of switches |  | 1 |
| Max. rated operation voltage Ue AC | V | 0 |
| Rated operating voltage | V | 1500-1500 |
| Rated permanent current lu | A |  |
| Rated permanent current at AC-23, 400 V | A | 0 |
| Rated permanent current at AC-21, 400 V | A | 0 |
| Rated operation power at AC-3, 400 V | kW | 0 |
| Rated short-time withstand current Icw | kA | 34 |
| Rated operation power at AC-23, 400 V | kW | 0 |
| Switching power at 400 V | kW | 0 |
| Conditioned rated short-circuit current Iq | kA | 0 |
| Number of poles |  | 4 |
| Number of auxiliary contacts as normally closed contact |  | 0 |
| Number of auxiliary contacts as normally open contact |  | 0 |
| Number of auxiliary contacts as change-over contact |  | 0 |
| Motor drive optional |  | Yes |
| Motor drive integrated |  | No |
| Voltage release optional |  | Yes |
| Device construction |  | Built-in device fixed built-in technique |
| Suitable for floor mounting |  | Yes |
| Suitable for front mounting 4-hole |  | No |
| Suitable for front mounting centre |  | No |

Suitable for distribution board installation Yes

Suitable for intermediate mounting
Colour control element ..... Black
Type of control element
Interlockable
Rocker lever
Type of electrical connection of main circuit
Yes
With pre-assembled cabling ..... No
Degree of protection (IP), front side ..... IP20
Degree of protection (NEMA) ..... Other
Width ..... mm ..... 280
Height ..... 207
Depth mm401Width in number of modular spacings

