DATASHEET - PN1-4-63



Switch-disconnector 4p, 63A

Part no. PN1-4-63 265999 EL Number 4358827 (Norway)



| General specifications | |
|--|---|
| Product name | Eaton Moeller series NZM switch-disconnector |
| Part no. | PN1-4-63 |
| EAN | 4015082659998 |
| Product Length/Depth | 88 millimetre |
| Product height | 145 millimetre |
| Product width | 120 millimetre |
| Product weight | 1.076 kilogram |
| Compliances | RoHS conform |
| Certifications | IEC IEC/EN 60947 |
| Product Tradename | NZM |
| Product Type | Switch-disconnector |
| Product Sub Type | None |
| Delivery program | |
| Application | Use in unearthed supply systems at 690 V |
| Туре | Switch-disconnector |
| Circuit breaker frame type | PN1 |
| Number of poles | Four-pole |
| Amperage Rating | 63 A |
| Features | Version as main switch Version as maintenance-/service switch Version as emergency stop installation |
| Special features | Main switch characteristics including positive drive to IEC/EN 60204 and VDE 0113. Isolating characteristics to IEC/EN 60947-3 and VDE 0660. Busbar tag shroud to VDE 0160 Part 100. Rated current = rated uninterrupted current: 63 A |
| Technical Data - Electrical | |
| Voltage rating | 690 V - 690 V |
| Rated operating voltage (Ue) at AC - max | 690 V |
| Rated insulation voltage (Ui) | 690 V |
| Rated impulse withstand voltage (Uimp) at auxiliary contacts | 6000 V |
| Rated impulse withstand voltage (Uimp) at main contacts | 6000 V |
| Rated conditional short-circuit current (Iq) | 0 kA |
| Rated operational current | 160 A (415 V AC-22/23A, making and breaking capacity) 160 A (690 V AC-22/23A, making and breaking capacity) |
| Rated permanent current at AC-21, 400 V | 0 A |
| Rated permanent current at AC-23, 400 V | 0 A |
| Rated conditional short-circuit current with back-up fuse | 80 kA at 690 V 100 kA at 400/415 V 63 gG/gL |
| Rated conditional short-circuit current with downstream fuse | 100 kA at 400/415 V 10 kA at 690 V 63 gG/gL |
| Rated short-time withstand current (Icw) | 2 kA |
| Rated short-time withstand current (t = 0.3 s) | 2 kA |
| Rated short-time withstand current (t = 1 s) | 2 kA |
| Rated operating frequency | 50 Hz |
| Rated short-circuit making capacity Icm at 690 V, 50/60 Hz | 2.8 kA |
| Rated operating power at AC-3, 400 V | 0 kW |
| Rated operating power at AC-23, 400 V | 30 kW |
| Switching power at 400 V | 0 kW |
| | |

| Short-circuit protective device fuses - max | 125 A gL |
|--|--|
| Electrical connection type of main circuit | Frame clamp |
| Isolation | 500 V AC (between auxiliary contacts and main contacts) |
| | 300 V AC (between the auxiliary contacts) |
| Number of operations per hour - max | 120 |
| Handle type | Rocker lever |
| Overvoltage category | III. |
| Pollution degree | 3 |
| Lifespan, electrical | 10000 operations at 415 V AC-1 1000 operations at 690 V AC-23A 1000 operations at 415 V AC-23A 10000 operations at 400 V AC-1 1000 operations at 400 V AC-23A 7500 operations at 690 V AC-1 |
| Direction of incoming supply | As required |
| Technical Data - Mechanical | |
| Mounting Method | Built-in device fixed built-in technique Distribution board installation Ground mounting Intermediate mounting Fixed |
| Degree of protection | IP20 (basic protection type, in the area of the HMI devices) Other |
| Degree of protection (IP), front side | IP20 IP40 (with insulating surround) IP66 (with door coupling rotary handle) |
| Degree of protection (terminations) | IP00 (terminations, phase isolator and band terminal) IP10 (tunnel terminal) |
| Protection against direct contact | Finger and back-of-hand proof to DIN EN 50274/VDE 0106 part 110 |
| Shock resistance | 20 g (half-sinusoidal shock 20 ms) |
| 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 | Ι, Ο |
| Climatic proofing | Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 |
| Special features | Main switch characteristics including positive drive to IEC/EN 60204 and VDE 0113 Isolating characteristics to IEC/EN 60947-3 and VDE 0660. Busbar tag shroud to VDE 0160 Part 100. Rated current = rated uninterrupted current: 63 A |
| Lifespan, mechanical | 20000 operations |
| Technical Data - Mechanical - Terminals | |
| Standard terminals | Box terminal |
| Optional terminals | Connection on rear. Screw terminal. Tunnel terminal |
| Terminal capacity (aluminum solid conductor/cable) | 10 mm ² - 16 mm ² (2x) direct at switch rear-side connection 16 mm ² (1x) at tunnel terminal 10 mm ² - 16 mm ² (1x) direct at switch rear-side connection |
| Terminal capacity (aluminum stranded conductor/cable) | 25 mm ² - 95 mm ² (1x) at 1-hole tunnel terminal |
| Terminal capacity (copper busbar) | Max. 16 mm x 5 mm direct at switch rear-side connection M6 at rear-side screw connection Min. 12 mm x 5 mm direct at switch rear-side connection |
| Terminal capacity (copper solid conductor/cable) | 10 mm ² - 16 mm ² (1x) at box terminal 6 mm ² - 16 mm ² (2x) direct at switch rear-side connection 10 mm ² - 16 mm ² (1x) direct at switch rear-side connection 6 mm ² - 16 mm ² (2x) at box terminal 16 mm ² (1x) at tunnel terminal |
| Terminal capacity (copper stranded conductor/cable) | Terminal capacity hint: Up to 95 mm ² can be connected depending on the cable manufacturer 25 mm ² - 95 mm ² (1x) at 1-hole tunnel terminal 25 mm ² (2x) direct at switch rear-side connection 10 mm ² - 70 mm ² (1x) at box terminal 25 mm ² - 70 mm ² (1x) direct at switch rear-side connection 6 mm ² - 25 mm ² (2x) at box terminal |
| Terminal capacity (copper strip) | Min. 2 segments of 9 mm x 0.8 mm at box terminal Max. 9 segments of 9 mm x 0.8 mm at box terminal |
| Design verification as per IEC/EN 61439 - technical data | |

| Rated operational current for specified heat dissipation (In) 63 A Equipment heat dissipation, current-dependent 452 W Ambient operating temperature - min 70 °C Ambient operating temperature - max 40 °C Ambient storage temperature - max 70 °C Design verification as per IEC/EN 61439 Meets the product standard's requirements. 10.22 Corrosion resistance Meets the product standard's requirements. 10.23.1 Verification of thermal stability of enclosures Meets the product standard's requirements. 10.23.2 Verification of resistance of insulating materials to normal heat Meets the product standard's requirements. 10.24 Resistance to Utra-violet (UV) radiation Dees not apply, since the entire switchgear needs to be evaluated. 10.25 Lifting Dees not apply, since the entire switchgear needs to be evaluated. 10.24 Resistance to Utra-violet (UV) radiation Meets the product standard's requirements. 10.3 Degree of protection of assemblies Dees not apply, since the entire switchgear needs to be evaluated. 10.5 Protection against electric shock Dees not apply, since the entire switchgear needs to be evaluated. 10.4 Clearances and creepage distances Meets the product standard's requirements. 10.3 Degree of protection of assemblies Dees not apply, since the entire |
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| 10.11 Short-circuit rating |
| observed. |
| 10.12 Electromagnetic compatibility Is the panel builder's responsibility. The specifications for the switchgear most observed. |
| 10.13 Mechanical function The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. |
| Additional information |
| Functions Interlockable Disconnectors/main switches |

Technical data ETIM 9.0

Low-voltage industrial components (EG000017) / Switch disconnector (low voltage) (EC000216)

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])

| [AKFU6UU18]) | | |
|--|----|-----------|
| 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 | 690 |
| Rated operating voltage | V | 690 - 690 |
| Rated permanent current lu | А | 63 |
| Rated permanent current at AC-23, 400 V | А | 0 |
| Rated permanent current at AC-21, 400 V | А | 0 |
| Rated operation power at AC-3, 400 V | kW | 0 |
| Rated short-time withstand current lcw | kA | 2 |
| Rated operation power at AC-23, 400 V | kW | 30 |
| 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 | | No |
| Motor drive integrated | | No |
| Voltage release optional | | No |
| 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 | | Yes |
| Colour control element | | Black |
| Type of control element | | Rocker lever |
| Interlockable | | Yes |
| Type of electrical connection of main circuit | | Frame clamp |
| With pre-assembled cabling | | No |
| Degree of protection (IP), front side | | IP20 |
| Degree of protection (NEMA) | | Other |
| Width | mm | 120 |
| Height | mm | 145 |
| Depth | mm | 88 |
| Width in number of modular spacings | | |
| | | |