

Safety switch, P3, 63 A, 3 pole, Emergency switching off function, With red rotary handle and yellow locking ring, Lockable in position 0 with cover interlock, with warning label „safety switch“

**Part no. P3-63/I4-SI
207361**

| General specifications | | |
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| Product name | | Eaton Moeller® series P3 Accessory Insulated enclosure |
| Part no. | | P3-63/I4-SI |
| EAN | | 4015082073619 |
| Product Length/Depth | | 139 millimetre |
| Product height | | 240 millimetre |
| Product width | | 160 millimetre |
| Product weight | | 1.002 kilogram |
| Compliances | | VDE |
| Certifications | | EN 60204 EN 60947 IEC 60947 VDE VDE 0660 IEC/EN 60947 IEC/EN 60204 IEC/EN 60947-3 |
| Product Tradename | | P3 |
| Product Type | | Accessory |
| Product Sub Type | | Insulated enclosure |
| Catalog Notes | | Rated Short-time Withstand Current (Icw) for a time of 1 second |
| Features & Functions | | |
| Features | | Version as safety switch Version as emergency stop installation |
| Fitted with: | | Red rotary handle and yellow locking ring Warning label "Safety switch" |
| Functions | | Emergency switching off function Interlockable |
| Locking facility | | Lockable in the 0 (Off) position (cover interlock) |
| Number of poles | | Three-pole |
| General information | | |
| Accessories | | Auxiliary contact or neutral conductor fitted by user. |
| Degree of protection | | NEMA 12 |
| Degree of protection (front side) | | IP65 |
| Lifespan, mechanical | | 100,000 Operations |
| Mounting method | | Surface mounting |
| Mounting position | | As required |
| Operating frequency | | 1200 Operations/h |
| Overvoltage category | | III |
| Pollution degree | | 3 |
| Rated impulse withstand voltage (Uimp) | | 6000 V AC |
| Safe isolation | | 440 V AC, Between the contacts, According to EN 61140 |
| Safety parameter (EN ISO 13849-1) | | B10d values as per EN ISO 13849-1, table C.1 |
| Shock resistance | | 15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms |
| Suitable for | | Ground mounting |
| Climatic environmental conditions | | |
| Ambient operating temperature - min | | -25 °C |
| Ambient operating temperature - max | | 40 °C |
| Ambient operating temperature (enclosed) - min | | -25 °C |
| Ambient operating temperature (enclosed) - max | | 40 °C |
| Climatic proofing | | Damp heat, cyclic, to IEC 60068-2-30 |

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| | | Damp heat, constant, to IEC 60068-2-78 |
| Terminal capacities | | |
| Terminal capacity | | 1 x (1.5 - 25) mm ² , flexible with ferrules to DIN 46228 2 x (1.5 - 6) mm ² , flexible with ferrules to DIN 46228 1 x (2.5 - 35) mm ² , solid or stranded 2 x (2.5 - 10) mm ² , solid or stranded |
| Screw size | | M5, Terminal screw |
| Tightening torque | | 3 Nm, Screw terminals 26.5 lb-in, Screw terminals |
| Electrical rating | | |
| Rated breaking capacity at 220/230 V (cos phi to IEC 60947-3) | | 640 A |
| Rated breaking capacity at 400/415 V (cos phi to IEC 60947-3) | | 600 A |
| Rated breaking capacity at 500 V (cos phi to IEC 60947-3) | | 590 A |
| Rated breaking capacity at 660/690 V (cos phi to IEC 60947-3) | | 340 A |
| Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V | | 51 A |
| Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V | | 55 A |
| Rated operational current (Ie) at AC-3, 500 V | | 44 A |
| Rated operational current (Ie) at AC-3, 660 V, 690 V | | 22.1 A |
| Rated operational current (Ie) at AC-21, 440 V | | 63 A |
| Rated operational current (Ie) at AC-23A, 230 V | | 63 A |
| Rated operational current (Ie) at AC-23A, 400 V, 415 V | | 63 A |
| Rated operational current (Ie) at AC-23A, 500 V | | 63 A |
| Rated operational current (Ie) at AC-23A, 690 V | | 63 A |
| Rated operational current (Ie) at DC-1, load-break switches I/r = 1 ms | | 63 A |
| Rated operational current (Ie) at DC-23A, 24 V | | 50 A |
| Rated operational current (Ie) at DC-23A, 48 V | | 50 A |
| Rated operational current (Ie) at DC-23A, 60 V | | 50 A |
| Rated operational current (Ie) at DC-23A, 120 V | | 25 A |
| Rated operational power at AC-3, 380/400 V, 50 Hz | | 30 kW |
| Rated operational power at AC-3, 415 V, 50 Hz | | 30 kW |
| Rated operational power at AC-3, 500 V, 50 Hz | | 30 kW |
| Rated operational power at AC-3, 690 V, 50 Hz | | 30 kW |
| Rated operational power at AC-23A, 220/230 V, 50 Hz | | 18.5 kW |
| Rated operational power at AC-23A, 400 V, 50 Hz | | 30 kW |
| Rated operational power at AC-23A, 500 V, 50 Hz | | 45 kW |
| Rated operational power at AC-23A, 690 V, 50 Hz | | 55 kW |
| Rated operational voltage (Ue) at AC - max | | 690 V |
| Rated uninterrupted current (Iu) | | 63 A |
| Uninterrupted current | | Rated uninterrupted current Iu is specified for max. cross-section. |
| Short-circuit rating | | |
| Rated conditional short-circuit current (Iq) | | 4 kA (Load side) 100 kA (Supply side) |
| Rated short-time withstand current (Icw) | | 1.26 kA |
| Short-circuit protection rating | | 80 A gG/gL, Fuse, Contacts |
| Switching capacity | | |
| Load rating | | 2 x I# (with intermittent operation class 12, 25 % duty factor) 1.6 x I# (with intermittent operation class 12, 40 % duty factor) 1.3 x I# (with intermittent operation class 12, 60 % duty factor) |
| Number of contacts in series at DC-23A, 24 V | | 1 |
| Number of contacts in series at DC-23A, 48 V | | 2 |
| Number of contacts in series at DC-23A, 60 V | | 2 |
| Number of contacts in series at DC-23A, 120 V | | 3 |
| Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3) | | 800 A |
| Voltage per contact pair in series | | 60 V |
| Contacts | | |
| Control circuit reliability | | 1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA) |
| Number of auxiliary contacts (change-over contacts) | | 0 |

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| Number of auxiliary contacts (normally closed contacts) | | 0 |
| Number of auxiliary contacts (normally open contacts) | | 0 |
| Actuator | | |
| Actuator color | | Red |
| Actuator type | | Short thumb-grip |
| Design verification | | |
| Equipment heat dissipation, current-dependent P _{vid} | | 4.5 W |
| Heat dissipation capacity P _{diss} | | 0 W |
| Heat dissipation per pole, current-dependent P _{vid} | | 4.5 W |
| Rated operational current for specified heat dissipation (I _n) | | 63 A |
| Static heat dissipation, non-current-dependent P _{vs} | | 0 W |
| 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 | | UV resistance only in connection with protective shield. |
| 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. |

Technical data ETIM 8.0

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| Low-voltage industrial components (EG000017) / Switch disconnecter (EC000216) | | |
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnecter (ec@ss10.0.1-27-37-14-03 [AKF060013]) | | |
| Version as main switch | | No |
| Version as maintenance-/service switch | | No |
| Version as safety switch | | Yes |
| Version as emergency stop installation | | No |
| Version as reversing switch | | No |
| Number of switches | | 1 |
| Max. rated operation voltage U _e AC | V | 690 |
| Rated operating voltage | V | 690 - 690 |
| Rated permanent current I _u | A | 63 |
| Rated permanent current at AC-23, 400 V | A | 63 |
| Rated permanent current at AC-21, 400 V | A | 63 |
| Rated operation power at AC-3, 400 V | kW | 30 |
| Rated short-time withstand current I _{cw} | kA | 1.26 |
| Rated operation power at AC-23, 400 V | kW | 30 |
| Switching power at 400 V | kW | 30 |
| Conditioned rated short-circuit current I _q | kA | 100 |

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| Number of poles | | | 3 |
| 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 | | | Complete device in housing |
| Suitable for floor mounting | | | Yes |
| Suitable for front mounting 4-hole | | | No |
| Suitable for front mounting centre | | | No |
| Suitable for distribution board installation | | | No |
| Suitable for intermediate mounting | | | No |
| Colour control element | | | Red |
| Type of control element | | | Short thumb-grip |
| Interlockable | | | No |
| Type of electrical connection of main circuit | | | Screw connection |
| Degree of protection (IP), front side | | | IP65 |
| Degree of protection (NEMA) | | | 12 |