DATASHEET - T0-1-8220/EZ



Changeoverswitches, Contacts: 2, 20 A, front plate: 1-2, 90 °, maintained, centre mounting



| Part no. | T0-1-8220/EZ |
|-------------|--------------|
| Catalog No. | 095799 |

EL-Nummer

(Norway)

0001456151

Delivery program

| Product range | | | Control switches |
|--|----------------|--------------------|--|
| Part group reference | | | ТО |
| Basic function | | | Changeoverswitches |
| | | | with black thumb grip and front plate |
| Contacts | | | 2 |
| Degree of Protection | | | Front IP65 |
| Design | | | centre mounting |
| | | | |
| Contact sequence | | | 4 0 0 1 0 4 0 0 1 2 4 0 0 1 2 7 2 7 2 7 2 |
| Switching angle | | • | 90 |
| Switching performance | | | maintained Without 0 (Off) position |
| Design number | | | 8220 |
| Front plate no. | | | ¹ √ ² FS 943 |
| front plate | | | 1-2 |
| Motor rating AC-23A, 50 - 60 Hz | | | |
| 400 V | Р | kW | 5.5 |
| Rated uninterrupted current | l _u | А | 20 |
| Note on rated uninterrupted current !u | | | Rated uninterrupted current I_u is specified for max. cross-section. |
| Number of contact units | | contact unit(s) | |

Technical data

| General | | |
|---------------------|----|--|
| Standards | | IEC/EN 60947, VDE 0660, IEC/EN 60204, CSA, UL Switch-disconnector according to IEC/EN 60947-3 |
| Climatic proofing | | Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 |
| Ambient temperature | | |
| Open | °C | -25 - +50 |
| Enclosed | °C | -25 - +40 |

| Overvoltage category/pollution degree | | | 111/3 |
|---|--|---|---|
| Rated impulse withstand voltage | U _{imp} | V AC | 6000 |
| | Oimp | | |
| Mechanical shock resistance | | g | 15 |
| Mounting position | | | As required |
| Contacts Electrical characteristics | | | |
| | | V AC | 690 |
| Rated operational voltage | Ue | | |
| Rated uninterrupted current | Iu | A | 20 |
| Note on rated uninterrupted current !u | | | Rated uninterrupted current ${\rm I}_{\rm u}$ is specified for max. cross-section. |
| Load rating with intermittent operation, class 12 | | | |
| AB 25 % DF | | x I _e | 2 |
| AB 40 % DF | | x l _e | 1.6 |
| AB 60 % DF | | x l _e | 1.3 |
| Short-circuit rating | | | |
| Fuse | | A gG/gL | 20 |
| Rated short-time withstand current (1 s current) | I _{cw} | A _{rms} | 320 |
| Note on rated short-time withstand current lcw | | | Current for a time of 1 second |
| Rated conditional short-circuit current | 1 | kA | 6 |
| Switching capacity | Iq | | Ŭ. |
| cos φ rated making capacity as per IEC 60947-3 | | A | 130 |
| Rated breaking capacity cos φ to IEC 60947-3 | | A | |
| 230 V | | A | 100 |
| 400/415 V | | A | 110 |
| | | A | |
| 500 V | | | 80 |
| 690 V | | A | 60 |
| Safe isolation to EN 61140 | | | |
| between the contacts | | V AC | 440 |
| | | | |
| Current heat loss per contact at le | | W | 0.6 |
| Current heat loss per contact at I _e Current heat loss per auxiliary circuit at I _e (AC-15/230 V) | | w co | 0.6 0.6 |
| | Operations | | |
| Current heat loss per auxiliary circuit at $\rm I_{e}$ (AC-15/230 V) | Operations Operations/h | CO | 0.6 |
| Current heat loss per auxiliary circuit at I _e (AC-15/230 V) Lifespan, mechanical | | CO | 0.6 > 0.4 |
| Current heat loss per auxiliary circuit at I _e (AC-15/230 V) Lifespan, mechanical Maximum operating frequency | | CO | 0.6 > 0.4 |
| Current heat loss per auxiliary circuit at I _e (AC-15/230 V) Lifespan, mechanical Maximum operating frequency AC | | CO | 0.6 > 0.4 |
| Current heat loss per auxiliary circuit at I _e (AC-15/230 V) Lifespan, mechanical Maximum operating frequency AC AC-3 | Operations/h | CO x 10 ⁶ | 0.6 > 0.4 |
| Current heat loss per auxiliary circuit at I _e (AC-15/230 V) Lifespan, mechanical Maximum operating frequency AC AC-3 Rating, motor load switch | Operations/h | CO x 10 ⁶ kW | 0.6 > 0.4 1200 |
| Current heat loss per auxiliary circuit at I _e (AC-15/230 V) Lifespan, mechanical Maximum operating frequency AC AC-3 Rating, motor load switch 220 V 230 V | Operations/h P P | CO × 10 ⁶ kW kW | 0.6 > 0.4 1200 3 |
| Current heat loss per auxiliary circuit at I _e (AC-15/230 V) Lifespan, mechanical Maximum operating frequency AC AC-3 Rating, motor load switch 220 V 230 V 230 V Star-delta 400 V 415 V | Operations/h P P P | CO x 10 ⁶ kW kW kW kW | 0.6 > 0.4 1200 3 5.5 5.5 |
| Current heat loss per auxiliary circuit at I _e (AC-15/230 V) Lifespan, mechanical Maximum operating frequency AC AC-3 Rating, motor load switch 220 V 230 V 230 V Star-delta 400 V 415 V 400 V Star-delta | Operations/h P P P P | CO × 10 ⁶ kW kW kW kW kW | 0.6 > 0.4 1200 |
| Current heat loss per auxiliary circuit at I _e (AC-15/230 V) Lifespan, mechanical Maximum operating frequency AC AC-3 Rating, motor load switch 220 V 230 V 230 V Star-delta 400 V 415 V 400 V Star-delta 500 V | Operations/h P P P P P P P | CO x 10 ⁶ kW kW kW kW kW kW | 0.6 > 0.4 1200 3 3 5.5 5.5 7.5 5.5 |
| Current heat loss per auxiliary circuit at I _e (AC-15/230 V) Lifespan, mechanical Maximum operating frequency AC AC-3 Rating, motor load switch 220 V 230 V 230 V Star-delta 400 V 415 V 400 V Star-delta 500 V 500 V Star-delta | Operations/h P P P P P P P P | CO x 10 ⁶ kW kW kW kW kW kW kW | 0.6 > 0.4 1200 3 3 5.5 5.5 7.5 5.5 7.5 |
| Current heat loss per auxiliary circuit at I _e (AC-15/230 V) Lifespan, mechanical Maximum operating frequency AC AC-3 Rating, motor load switch 220 V 230 V 230 V Star-delta 400 V 415 V 400 V Star-delta 500 V 500 V 690 V | Operations/h P P P P P P P P P P | CO × 10 ⁶ kW kW kW kW kW kW kW | 0.6 > 0.4 200 200 3 5.5 5.5 5.5 5.5 5.5 7.5 7.5 7.5 |
| Current heat loss per auxiliary circuit at I _e (AC-15/230 V) Lifespan, mechanical Maximum operating frequency AC AC-3 Rating, motor load switch 220 V 230 V 230 V Star-delta 400 V 415 V 400 V Star-delta 500 V 500 V Star-delta 690 V 690 V Star-delta | Operations/h P P P P P P P P | CO x 10 ⁶ kW kW kW kW kW kW kW | 0.6 > 0.4 1200 3 3 5.5 5.5 7.5 5.5 7.5 |
| Current heat loss per auxiliary circuit at I _e (AC-15/230 V) Lifespan, mechanical Maximum operating frequency AC AC-3 Rating, motor load switch 220 V 230 V 230 V Star-delta 400 V 415 V 400 V Star-delta 500 V 500 V 690 V 690 V Star-delta Rated operational current motor load switch | Operations/h P P P P P P P P P P P P P P P P P P P | CO × 10 ⁶ kW kW kW kW kW kW kW kW kW | 0.6 > 0.4 200 3 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5 |
| Current heat loss per auxiliary circuit at I _e (AC-15/230 V) Lifespan, mechanical Maximum operating frequency AC AC-3 Rating, motor load switch 220 V 230 V 230 V Star-delta 400 V 415 V 400 V Star-delta 500 V 500 V 690 V 690 V Star-delta 230 V 300 V 530 V 230 V Star-delta 230 V | Operations/h P P P P P P P P P P P P P P | CO x 10 ⁶ kW kW kW kW kW kW kW kW kW kW kW kW | 0.6 > 0.4 1200 |
| Current heat loss per auxiliary circuit at I _e (AC-15/230 V) Lifespan, mechanical Maximum operating frequency AC AC-3 Rating, motor load switch 220 V 230 V 230 V Star-delta 400 V 415 V 400 V Star-delta 500 V 500 V 690 V 690 V 690 V 230 V Star-delta | Operations/h P P P P P P P P P P P P P P P P P P P | CO × 10 ⁶ kW kW kW kW kW kW kW kW kW kW kW | 0.6 > 0.4 200 200 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 |
| Current heat loss per auxiliary circuit at I _e (AC-15/230 V) Lifespan, mechanical Maximum operating frequency AC AC-3 Rating, motor load switch 220 V 230 V 230 V Star-delta 400 V 415 V 400 V Star-delta 500 V 500 V 690 V 690 V Star-delta 230 V 300 V 530 V 230 V Star-delta 230 V | Operations/h P P P P P P P P P P P P P P | CO x 10 ⁶ kW kW kW kW kW kW kW kW kW kW kW kW | 0.6 > 0.4 1200 |
| Current heat loss per auxiliary circuit at I _e (AC-15/230 V) Lifespan, mechanical Maximum operating frequency AC AC-3 Rating, motor load switch 220 V 230 V 230 V Star-delta 400 V 415 V 400 V Star-delta 500 V 500 V 690 V 690 V 690 V 230 V Star-delta | Operations/h P P P P P P P P P P P P P P P P P P P | CO × 10 ⁶ kW kW kW kW kW kW kW kW kW kW kW | 0.6 > 0.4 200 200 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 |
| Current heat loss per auxiliary circuit at I _e (AC-15/230 V) Lifespan, mechanical Maximum operating frequency AC AC-3 Rating, motor load switch 220 V 230 V 230 V Star-delta 400 V 415 V 400 V Star-delta 500 V 500 V 690 V 690 V 690 V Star-delta 230 V Star-delta 400 V 415 V | Operations/h P P P P P P P P P P P P P P P P P P P | CO x 10 ⁶ kW kW kW kW kW kW kW kW kW kW kW kW kW | 0.6 > 0.4 200 200 3 3 5.5 5.5 5.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 |
| Current heat loss per auxiliary circuit at I _e (AC-15/230 V) Lifespan, mechanical Maximum operating frequency AC AC-3 Rating, motor load switch 220 V 230 V 230 V Star-delta 400 V 415 V 400 V Star-delta 500 V 500 V 690 V 690 V 690 V 230 V Star-delta 400 V 415 V 400 V 415 V 400 V 5tar-delta 500 V 500 V 500 V 230 V Star-delta 400 V 415 V | Operations/h P P P P P P P P P P P P P P P P P P P | CO × 10 ⁶ kW kW kW kW kW kW kW kW kW kW kW kW kW | 0.6 > 0.4 200 200 3 5 5 5 5 5 5 5 5 5 5 5 5 5 |
| Current heat loss per auxiliary circuit at I _e (AC-15/230 V) Lifespan, mechanical Maximum operating frequency AC AC-3 Rating, motor load switch 220 V 230 V 230 V Star-delta 400 V 415 V 400 V Star-delta 500 V 500 V 690 V 690 V Star-delta 230 V Star-delta 690 V 500 V 230 V Star-delta 690 V 500 V 230 V Star-delta 690 V Star-delta 690 V 690 V Star-delta 230 V 230 V 230 V 230 V star-delta 690 V 690 V Star-delta 690 V 230 V 230 V 230 V 230 V star-delta 400V 415 V 400 V star-delta 500 V | Operations/h P P P P P P P P P P P P P P P P P P P | CO x 10 ⁶ kW kW kW kW kW kW kW kW kW kW kW kW kW | 0.6 > 0.4 200 200 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 |
| Current heat loss per auxiliary circuit at l _e (AC-15/230 V)Lifespan, mechanicalMaximum operating frequencyACAC-3Rating, motor load switch220 V 230 V230 V Star-delta400 V 415 V400 V Star-delta500 V500 V Star-delta690 V690 V Star-delta230 V Star-delta690 V690 V Star-delta500 V Star-delta690 V690 V Star-delta500 V Star-delta690 V690 V Star-delta690 V690 V690 V690 V690 V690 V | Operations/h P P P P P P P P P P P I e I e I e I e I | C0 x 10 ⁶ kW kW kW kW kW kW kW kW kW kW kW kW kW | 0.6 > 0.4 1200 1200 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| Current heat loss per auxiliary circuit at I _e (AC-15/230 V) Lifespan, mechanical Maximum operating frequency AC AC-3 Rating, motor load switch 220 V 230 V 230 V Star-delta 400 V 415 V 400 V Star-delta 500 V 500 V 500 V 500 V Star-delta 690 V 690 V Star-delta 230 V Star-delta 690 V 690 V Star-delta 90 V Star-delta 90 V Star-delta 690 V 230 V Star-delta 690 V Star-delta 90 V Star-delta < | Operations/h P P P P P P P P P P P P P P P P P P P | CO × 10 ⁶ kW kW kW kW kW kW kW kW kW kW kW kW kW | 0.6 > 0.4 1200 1200 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| Current heat loss per auxiliary circuit at I _e (AC-15/230 V) Lifespan, mechanical Maximum operating frequency AC AC-3 Rating, motor load switch 220 V 230 V 230 V Star-delta 400 V 415 V 400 V Star-delta 500 V 500 V Star-delta 690 V 690 V 230 V Star-delta 690 V 500 V Star-delta 690 V 690 V 230 V Star-delta 690 V 690 V 500 V Star-delta 690 V 690 V 690 V 690 V 500 V Star-delta 690 V 230 V 230 V 230 V 230 V 230 V 230 V 500 V star-delta 600 V 500 V star-delta 690 V 690 V star-delta 690 V star-delta 690 V star-delta 690 V star-delta 690 V star-delta <td>Operations/h P P P P P P P P P P P I e I e I e I e I</td> <td>C0 x 10⁶ kW kW kW kW kW kW kW kW kW kW kW kW kW</td> <td>0.6 > 0.4 1200 1200 1 1 1 1 1 1 1 1 1 1 1 1 1</td> | Operations/h P P P P P P P P P P P I e I e I e I e I | C0 x 10 ⁶ kW kW kW kW kW kW kW kW kW kW kW kW kW | 0.6 > 0.4 1200 1200 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| Current heat loss per auxiliary circuit at l _e (AC-15/230 V) Lifespan, mechanical Maximum operating frequency AC AC-3 Rating, motor load switch 220 V 230 V 230 V Star-delta 400 V 415 V 400 V Star-delta 500 V 500 V 500 V 500 V Star-delta 690 V 690 V 230 V Star-delta 400V 415 V 400 V Star-delta 500 V 500 V Star-delta 690 V 690 V Star-delta 230 V 230 V 230 V 230 V 230 V star-delta 690 V 230 V star-delta 690 V Star-delta 500 V 500 V star-delta 500 V Star-delta 690 V 500 V star-delta 690 V 690 V star-delta 690 V 690 V star-delta 690 V 690 V star-delta | Operations/h P P P P P P P P P P P I e I e I e I e I | C0 x 10 ⁶ kW kW kW kW kW kW kW kW kW kW kW kW kW | 0.6 > 0.4 200 200 200 200 200 200 200 200 200 20 |

| 40.004 | | | |
|---|----------------|---------------------|---|
| AC-23A | Р | kW | |
| Motor rating AC-23A, 50 - 60 Hz 230 V | P | | 2 |
| | | kW | 3 |
| 400 V 415 V | P | kW | 5.5 |
| 500 V | P | kW | 7.5 |
| 690 V | Р | kW | 5.5 |
| Rated operational current motor load switch | | | |
| 230 V | le | A | 13.3 |
| 400 V 415 V | l _e | A | 13.3 |
| 500 V | l _e | A | 13.3 |
| 690 V | l _e | A | 7.6 |
| DC | | | |
| DC-1, Load-break switches L/R = 1 ms | | | |
| Rated operational current | l _e | А | 10 |
| Voltage per contact pair in series | | V | 60 |
| DC-21A | le | А | |
| Rated operational current | le | А | 1 |
| Contacts | | Quantity | 1 |
| DC-23A, motor load switch L/R = 15 ms | | | |
| 24 V | | | |
| Rated operational current | l _e | A | 10 |
| Contacts | | Quantity | 1 |
| 48 V | | | |
| Rated operational current | l _e | A | 10 |
| Contacts | | Quantity | 2 |
| 60 V | | | |
| Rated operational current | le | A | 10 |
| Contacts | U C | Quantity | |
| 120 V | | , | |
| Rated operational current | le | A | 5 |
| Contacts | U C | Quantity | 3 |
| 240 V | | , | |
| Rated operational current | l _e | A | 5 |
| Contacts | C | Quantity | |
| DC-13, Control switches L/R = 50 ms | | Quantity | |
| Rated operational current | l _e | A | 10 |
| Voltage per contact pair in series | ·e | V | 32 |
| Control circuit reliability at 24 V DC, 10 mA | Fault | V H _F | |
| | probability | 115 | < 10 ⁻⁵ , $<$ 1 fault in 100000 operations |
| Terminal capacities | | | |
| Solid or stranded | | mm ² | 1 x (1 - 2,5) 2 x (1 - 2,5) |
| Flexible with ferrules to DIN 46228 | | mm ² | 1 x (0.75 - 2.5) |
| | | mm~ | 2 x (0.75 - 2.5) |
| Terminal screw | | | M3.5 |
| Tightening torque for terminal screw | | Nm | 1 |
| Technical safety parameters: | | | |
| Notes | | | B10 _d values as per EN ISO 13849-1, table C1 |
| Rating data for approved types Contacts | | | |
| | | V AC | 003 |
| Rated operational voltage | U _e | V AU | 600 |
| Rated uninterrupted current max. | | | |
| Main conducting paths | | | |
| General use | | A | 16 |
| Auxiliary contacts | | | |
| General Use | lu | Α | 10 |

| Pilot Duty | | | A 600 P 600 |
|--|---|-------|----------------|
| Switching capacity | | | |
| Maximum motor rating | | | |
| Single-phase | | | |
| 120 V AC | ł | HP | 0.5 |
| 200 V AC | ł | HP | 1 |
| 240 V AC | ł | HP | 1.5 |
| Three-phase | | | |
| 200 V AC | ł | HP | 3 |
| 240 V AC | ł | HP | 3 |
| 480 V AC | H | HP | 7.5 |
| 600 V AC | ł | HP | 7.5 |
| Short Circuit Current Rating | 5 | SCCR | |
| Basic Rating | k | kA | 5 |
| max. Fuse | ł | A | 50 |
| High fault rating | k | kA | 10 |
| max. Fuse | ł | A | 20, Class J |
| Terminal capacity | | | |
| Solid or flexible conductor with ferrule | ł | AWG | 18 - 14 |
| Terminal screw | | | M3.5 |
| Tightening torque | I | lb-in | 8.8 |

Design verification as per IEC/EN 61439

| boolgii formoution do por iEo, Eit of ioo | | | |
|--|-------------------|----|--|
| Technical data for design verification | | | |
| Rated operational current for specified heat dissipation | In | А | 20 |
| Heat dissipation per pole, current-dependent | P _{vid} | W | 0.6 |
| Equipment heat dissipation, current-dependent | P _{vid} | W | 0 |
| Static heat dissipation, non-current-dependent | P _{vs} | W | 0 |
| Heat dissipation capacity | P _{diss} | W | 0 |
| Operating ambient temperature min. | | °C | -25 |
| Operating ambient temperature max. | | °C | 50 |
| IEC/EN 61439 design verification | | | |
| 10.2 Strength of materials and parts | | | |
| 10.2.2 Corrosion resistance | | | Meets the product standard's requirements. |
| 10.2.3.1 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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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 Insulation properties | | | |
| 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. observed. |
|-------------------------------------|---|
| 10.12 Electromagnetic compatibility | Is the panel builder's responsibility. observed. |
| 10.13 Mechanical function | The device meets the requirements leaflet (IL) is observed. |

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 7.0

Low-voltage industrial components (EG000017) / Off-load switch (EC001105)

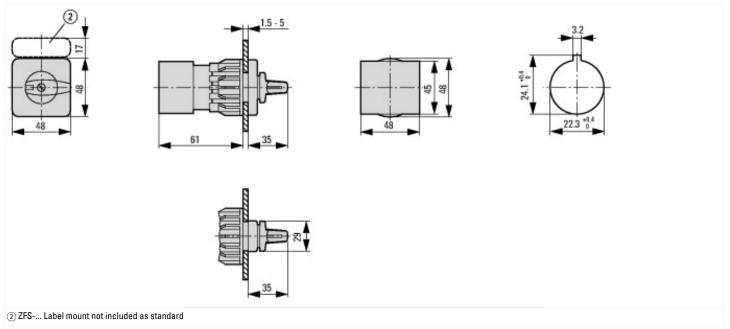
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Changeover switch (ecl@ss10.0.1-27-37-14-05 [AKF062013])

| Model Reverser Number of poles 1 With Order of poles 0 With Order of poles No With traction in 0-position No Rate operation user of the operation No Rate operation current le at AC-3, 400 V No Rate operation power AC-3, 400 V No Degree of protection (PM, front side No Degree of protection (PM, front side No Number of aukilary contacts as normally open contact No Number of aukilary contacts as normally open contact No Stabel for front mounting 4-hole No Stabel for intermediation No <t< th=""><th></th><th></th><th></th></t<> | | | |
|---|---|----|------------------|
| With 0 for sition No With 1 op sition No Rate operation current lu A 0 Rated operation current le at AC-3, 400 V A 15 Rated operation power at AC-3, 400 V KW 4 Degree of protection (NEMA), front side M 16 Degree of protection (NEMA), front side M 16 Number of auxiliary contacts as normally closed contact M 16 Number of auxiliary contacts as change-over contact M 16 Sutable for ground mounting M 16 Sutable for information M M Sutable for informationting M M | Model | | Reverser |
| With retraction in 0-position No Rated permanent current lu A 0 Rated operation current le at AC-3,400 V A 15 Rated operation power at AC-3,400 V KW 4 Degree of protection (IP), front side FB5 10 Degree of protection (NEMA), front side FB5 0 Number of auxiliary contacts as normally closed contact 0 0 Number of auxiliary contacts as normally closed contact 0 0 Suitable for ground mounting S 0 0 Suitable for front mounting 4-hole S S S Suitable for intermediate mounting S S S S Suitable for intermediate mounting S <td>Number of poles</td> <td></td> <td>1</td> | Number of poles | | 1 |
| Rated permanent current luADefended peration current le at AC-3,400 VADefended peration power at AC-3,400 VDefended p | With 0 (off) position | | No |
| Rated operation current le at AC-3, 400 V A 1.5 Rated operation power at AC-3, 400 V KW 4 Degree of protection (IP), front side IP65 Degree of protection (NEMA), front side 0 Number of auxiliary contacts as normally closed contact 0 Number of auxiliary contacts as normally contact Image: Contact Contact Number of auxiliary contacts as change-over contact Image: Contact Contact Contact Suitable for ground mounting No Suitable for intermediate mounting Vo Suitable for intermediate mounting No Suitable for intermediate mounting Togle | With retraction in 0-position | | No |
| Rate operation power at AC-3, 400 V KW 4 Pagree of protection (IP), front side P65 Degree of protection (NEMA), front side I Number of auxiliary contacts as normally closed contact 0 Number of auxiliary contacts as normally copen contact I Number of auxiliary contacts as change-over contact I Suitable for ground mounting I Suitable for front mounting 4-hole I Suitable for intermediate mounting I Topp of control element I | Rated permanent current lu | А | 20 |
| Degree of protection (IP), front sideP66Degree of protection (NEMA), front side2Number of auxiliary contacts as normally closed contact0Number of auxiliary contacts as normally open contact0Number of auxiliary contacts as normally open contact0Number of auxiliary contacts as change-over contact0Suitable for ground mounting0Suitable for front mounting 4-holeNoSuitable for intermediate mounting6Suitable for intermediate mounting6Suitable for intermediate mountingNoSuitable for intermediate mountingSectionSuitable for intermediate mountingSectionSuitable for intermediate mountingSectionSuitable for intermediate mountingSectionMaterial housingSectionType of control elementSectionSuitable for control elementSectionSuitable for intermediate mountingSectionSuitable for intermediate mountingSectionSuitable for intermediate mountingSectionSuitable for intermediate mountingSectionSectionSectionSectionSectionSectionSection </td <td>Rated operation current le at AC-3, 400 V</td> <td>А</td> <td>11.5</td> | Rated operation current le at AC-3, 400 V | А | 11.5 |
| Degree of protection (NEMA), front side 12 Number of auxiliary contacts as normally closed contact 0 Number of auxiliary contacts as normally open contact 0 Number of auxiliary contacts as normally open contact 0 Suitable for ground mounting 0 Suitable for front mounting 4-hole No Suitable for distribution board installation 6 No Suitable for intermediate mounting No No Young Complete device in housing No No Material housing No No Type of control element Wo No | Rated operation power at AC-3, 400 V | kW | 4 |
| Number of auxiliary contacts as normally closed contact 0 Number of auxiliary contacts as normally open contact 0 Number of auxiliary contacts as normally open contact 0 Number of auxiliary contacts as change-over contact 0 Suitable for ground mounting 0 Suitable for front mounting 4-hole Ves Suitable for distribution board installation Ves Suitable for intermediate mounting No Complete device in housing No Material housing Ves Type of control element Ves | Degree of protection (IP), front side | | IP65 |
| Number of auxiliary contacts as normally open contact Image: Content of auxiliary contacts as change-over contacts as change-over contacts Image: Content of auxiliary contacts | Degree of protection (NEMA), front side | | 12 |
| Number of auxiliary contacts as change-over contact Image: Content of auxiliary contacts as change-over contact Image: Content of auxiliary contacts as change-over contact Suitable for ground mounting Image: Content of auxiliary contacts as change-over contact Image: Content of auxiliary contacts as change-over contact Suitable for ground mounting 4-hole Image: Content of auxiliary contacts as change-over contact Image: Content of auxiliary contacts as change-over contacts Suitable for distribution board installation Image: Content of auxiliary contacts Image: Content of auxiliary contacts Suitable for intermediate mounting Image: Content of auxiliary contacts Image: Content of auxiliary contacts Material housing Image: Content of auxiliary contacts Image: Content of auxiliary contacts Image: Content of auxiliary contacts Type of control element Image: Content of auxiliary contacts Image: Content of auxiliary contacts Image: Content of auxiliary contacts | Number of auxiliary contacts as normally closed contact | | 0 |
| Suitable for ground mountingModeSuitable for front mounting 4-holeYesSuitable for distribution board installationModeSuitable for distribution board installationModeSuitable for intermediate mountingModeComplete device in housingModeMaterial housingModeType of control elementState of the state of the stateSuitable for intermediate mountingState of the stateSuitable for intermediate mountingModeSuitable for intermediate mountingMode <t< td=""><td>Number of auxiliary contacts as normally open contact</td><td></td><td>0</td></t<> | Number of auxiliary contacts as normally open contact | | 0 |
| Suitable for front mounting 4-hole Yes Suitable for distribution board installation Image: Complete device in housing Suitable for intermediate mounting Image: Complete device in housing Material housing Image: Complete device in housing Type of control element Image: Complete device in housing | Number of auxiliary contacts as change-over contact | | 0 |
| Suitable for distribution board installation Image: Constraint of the second of the | Suitable for ground mounting | | No |
| Suitable for intermediate mounting Image: Complete device in housing Image: | Suitable for front mounting 4-hole | | Yes |
| Complete device in housing Complete device in housing No Material housing Material housing Plastic Type of control element Galarian Toggle | Suitable for distribution board installation | | No |
| Material housing Material housing Plastic Type of control element Constant Toggle | Suitable for intermediate mounting | | No |
| Type of control element Toggle | Complete device in housing | | No |
| | Material housing | | Plastic |
| Type of electrical connection of main circuit Screw connection | Type of control element | | Toggle |
| | Type of electrical connection of main circuit | | Screw connection |

Approvals

| Product Standards | UL 60947-4-1;CSA - C22.2 No. 60947-4-1-14; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking |
|-----------------------------|--|
| UL File No. | E36332 |
| UL Category Control No. | NLRV |
| CSA File No. | 12528 |
| CSA Class No. | 3211-05 |
| North America Certification | UL listed, CSA certified |
| Suitable for | Branch circuits, suitable as motor disconnect |
| Degree of Protection | IEC: IP65; UL/CSA Type 1, 12 |

Dimensions



Assets (links)

Declaration of CE Conformity 00003075 Instruction Leaflets IL03801020Z2018_05