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T0-1-8214/I1 - Changeoverswitches, T0, 20 A, surface mounting, 1 contact unit(s), Contacts: 2, 45 °, momentary, With 0 (Off) position, with spring-return from both directions to 0, 1>0<2, design no. 8214



^{™]} 207077 T0-1-8214/l1 Overview Specifications Resources

BBQ





- Delivery program
- Technical data
- Design verification as per IEC/EN 61439
- Technical data ETIM 7.0
- Dimensions

207077 T0-1-8214/I1

Changeoversw itches, T0, 20 A, surface mounting, 1 contact unit(s), Contacts: 2, 45 °, momentary, With 0 (Off) position, with spring-return from both directions to 0, 1>0<2, design no. 8214 EL-Nummer (Norway) 1456415

Changeover switch, Product range: Control switches, Part group reference: T0, with black thumb grip and front plate, Contacts: 2, Degree of Protection: IP65, Design: surface mounting, Switching angle: 45 °, Switching performance: momentary, With 0 (Off) position, with spring-return from both directions to 0, front plate: 2>0<1, Motor rating AC-23A, 50 - 60 Hz 400 V: P = 5.5 kW, Rated uninterrupted current: lu = 20 A, 1 contact unit(s), Standards: IEC/EN 60947, VDE 0660, IEC/EN 60204, Switch-disconnector according to IEC/EN 60947-3

Delivery program

Product range Control switches Part group reference

T0 Basic function Changeoverswitches with black thumb grip and front plate Contacts 2 Degree of Protection

IP65 totally insulated Design

surface mounting



Contact sequence



FS 4011 front plate 1>0<2Motor rating AC-23A, 50 - 60 Hz [P] $400 \lor$ [P] 5.5 kWRated uninterrupted current [I_u] 20 A Note on rated uninterrupted current I_u Rated uninterrupted current I_u is specified for max. cross-section. Number of contact units 1 contact unit(s)

Technical data

General Standards IEC/EN 60947, VDE 0660, IEC/EN 60204 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 temperatureEnclosed -25 - +40 °C Overvoltage category/pollution degree Ⅲ/3 Rated impulse withstand voltage [U_{imp}] 6000 V AC Mechanical shock resistance 15 g Mounting position As required Contacts Bectrical characteristicsRated operational voltage [Ua] 690 V AC Bectrical characteristicsRated uninterrupted current [Iu] 20 A Electrical characteristicsNote on rated uninterrupted current lu Rated uninterrupted current I_{u} is specified for max. cross-section. Load rating with intermittent operation, class 12AB 25 % DF 2 x le Load rating with intermittent operation, class 12AB 40 % DF 1.6 x le Load rating with intermittent operation, class 12AB 60 % DF 1.3 x L Short-circuit ratingFuse 20 A gG/gL Rated short-time withstand current (1 s current) [I_{cw}] 320 Arms Note on rated short-time withstand current lcw Current for a time of 1 second

Rated conditional short-circuit current [la] 6 kA Switching capacity 130 A Rated breaking capacity cos ϕ to IEC 60947-3230 V 100 A Rated breaking capacity cos \$\phi\$ to IEC 60947-3400/415 V 110 A Rated breaking capacity cos ϕ to IEC 60947-3500 V 80 A Rated breaking capacity cos ϕ to IEC 60947-3690 V 60 A Safe isolation to EN 61140between the contacts 440 V AC Safe isolation to EN 61140Current heat loss per contact at le 0.6 W Safe isolation to EN 61140Current heat loss per auxiliary circuit at le (AC-15/230 V) 0.6 00 Lifespan, mechanical [Operations] > 0.4 x 10⁶ Maximum operating frequency [Operations/h] 1200 ACAC-3Rating, motor load switch [P]220 V 230 V [P] 3 kW ACAC-3Rating, motor load switch [P]230 V Star-delta [P] 5.5 kW ACAC-3Rating, motor load switch [P]400 V 415 V [P] 5.5 kW ACAC-3Rating, motor load switch [P]400 V Star-delta [P] 7.5 kW ACAC-3Rating, motor load switch [P]500 V [P] 5.5 kW ACAC-3Rating, motor load switch [P]500 V Star-delta [P] 7.5 kW ACAC-3Rating, motor load switch [P]690 V [P] 4 kW ACAC-3Rating, motor load switch [P]690 V Star-delta [P] 5.5 kW ACAC-3Rated operational current motor load switch230 V [la] 11.5 A ACAC-3Rated operational current motor load switch230 V star-delta [le] 20 A ACAC-3Rated operational current motor load switch400V 415 V [le] 11.5 A ACAC-3Rated operational current motor load switch400 V star-delta [le] 20 A ACAC-3Rated operational current motor load switch500 V [le] 9 A ACAC-3Rated operational current motor load switch500 V star-delta [le] 15.6 A ACAC-3Rated operational current motor load switch690 V [le] 4.9 A ACAC-3Rated operational current motor load switch690 V star-delta [le] 8.5 A ACAC-23AMotor rating AC-23A, 50 - 60 Hz [P]230 V [P] 3 kW ACAC-23ANbtor rating AC-23A, 50 - 60 Hz [P]400 V 415 V [P] 5.5 kW ACAC-23AMotor rating AC-23A, 50 - 60 Hz [P]500 V [P] 7.5 kW ACAC-23AMotor rating AC-23A, 50 - 60 Hz [P]690 V [P] 5.5 kW ACAC-23ARated operational current motor load switch230 V [le] 13.3 A ACAC-23ARated operational current motor load switch400 V 415 V [le] 13.3 A ACAC-23ARated operational current motor load switch500 V [le] 13.3 A

ACAC-23ARated operational current motor load switch690 V [la] 7.6 A DCDC-1, Load-break switches L/R = 1 msRated operational current [L] 10 A DCDC-1, Load-break switches L/R = 1 msVoltage per contact pair in series 60 V DCDC-21A [le] Rated operational current [le] 1 A DCDC-21A [le]Contacts 1 Quantity DCDC-23A, motor load switch L/R = 15 ms24 VRated operational current [L] 10 A DCDC-23A, motor load switch L/R = 15 ms24 VContacts 1 Quantity DCDC-23A, motor load switch L/R = 15 ms48 VRated operational current [l_] 10 A DCDC-23A, motor load switch L/R = 15 ms48 VContacts 2 Quantity DCDC-23A, motor load switch L/R = 15 ms60 VRated operational current [l_] 10 A DCDC-23A, motor load switch L/R = 15 ms60 VContacts 3 Quantity DCDC-23A, motor load switch L/R = 15 ms120 VRated operational current [L] 5 A DCDC-23A, motor load switch L/R = 15 ms120 VContacts 3 Quantity DCDC-23A, motor load switch L/R = 15 ms240 VRated operational current [l_] 5 A DCDC-23A, motor load switch L/R = 15 ms240 VContacts 5 Quantity DCDC-13, Control switches L/R = 50 msRated operational current [L] 10 A DCDC-13, Control switches L/R = 50 msVoltage per contact pair in series 32 V Control circuit reliability at 24 V DC, 10 mA [Fault probability] < 10⁻⁵,< 1 failure in 100,000 switching operations H_E Terminal capacities Solid or stranded 1 x (1 - 2,5) 2 x (1 - 2,5) mm² Flexible with ferrules to DIN 46228 1 x (0.75 - 2.5) 2 x (0.75 - 2.5) mm² Terminal screw **MB.5** Tightening torque for terminal screw 1 Nm Technical safety parameters: Notes B10_d values as per EN ISO 13849-1, table C1 Rating data for approved types Terminal capacity Terminal screw **MB.5** Terminal capacity Tightening torque 8.83 lb-in

Design verification as per IEC/EN 61439

Technical data for design verification Rated operational current for specified heat dissipation [I_n] 20 A Heat dissipation per pole, current-dependent [P_{iid}] 0.6 W Equipment heat dissipation, current-dependent [P_{vid}] 0 W Static heat dissipation, non-current-dependent [P_{vs}] 0 W Heat dissipation capacity [P_{diss}] 0 W Operating ambient temperature min. -25 °C Operating ambient temperature max. +40 °C IEC/EN 61439 design verification 10.2 Strength of materials and parts10.2.2 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 parts10.2.3.2 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 parts10.2.4 Resistance to ultra-violet (UV) radiation UV resistance only in connection with protective shield. 10.2 Strength of materials and parts 10.2.5 Lifting Does not apply, since the entire switchgear needs to be evaluated. 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 parts10.2.7 Inscriptions Meets the product standard's requirements. 10.3 Degree of protection of ASSEVBLIES 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 Pow er-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 7.0

Low-voltage industrial components (EG000017) / Off-load switch (EC001105) Bectric 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 With 0 (off) position Yes With retraction in 0-position Yes Rated permanent current lu 20 A Rated operation current le at AC-3, 400 V 11.5 A Rated operation power at AC-3, 400 V 4 kW

Degree of protection (IP), front side IP65 Degree of protection (NEVA), front side Other 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 Suitable for ground mounting Yes Suitable for front mounting 4-hole No Suitable for distribution board installation No Suitable for intermediate mounting No Complete device in housing Yes Material housing Plastic Type of control element Toggle Type of electrical connection of main circuit Screw connection

Dimensions

Drilling dimensions base

CAD data

- Product-specific CAD data
 (Web)
- 3D Preview (Web)

DWG files

• DA-CD-bauform2 File (Web)

edz files

• DA-CE-ETN.T0-1-8214_I1 File (Web)

Step files

• DA-CS-bauform2 File (Web)

Wiring diagram



Changeover switch with 0 position

Dimensions single product

- [°] 115X113 Line drawing Layout, drilling dimensions
- ^D 115X160 Line drawing Layout

Product photo



3D drawing

1150DRW-3 Line drawing Surface mounting type

Instruction Leaflet

 T0 Cam switches: Surface mounting enclosure (IL03801007Z) Asset former AVVA1150-1688 (PDF, 06/2021, multilingual)

Symbol



000Z078 Graphic Rotary switches, surface mounting

• totally insulated 000Z083

Logo

totally insulated (en, de, fr, es, it, zh, ru, nl, sv, cs, pl, tr)



FS 4011 115K007 Graphic FS4011 standard front plate

Declaration of Conformity

EU

 Rotary Cam Switch T0 (DA-DC-00003632) Asset (PDF)

UK

• Rotary Cam Switch T0 (DA-DC-00004000) Asset (PDF)

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