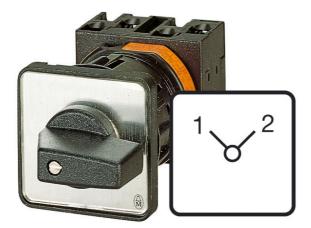


Type: **T0–1–8220/EZ** Article No.: **095799** Sales text **2 WAY SWITCH**



With black thumb-grip and grey front plate

| Ordering information | | | |
|-----------------------------|------------|----|--------------------------|
| Design | | | Centre mounting |
| Description | | | Without 0 (Off) position |
| Description | | | Changeover switches |
| No. of poles | | М | 1 |
| Max. motor rating | | | |
| AC-23A 400/415 V 50-60 Hz | Р | kW | 6.5 |
| Rated uninterrupted current | <i>I</i> u | А | 20 |

Contact sequence



Front plate no.



General

Standards

IEC/EN 60947, VDE 0660, IEC/EN 60204, CSA, UL Switch–disconnectors to IEC/EN 60947–3

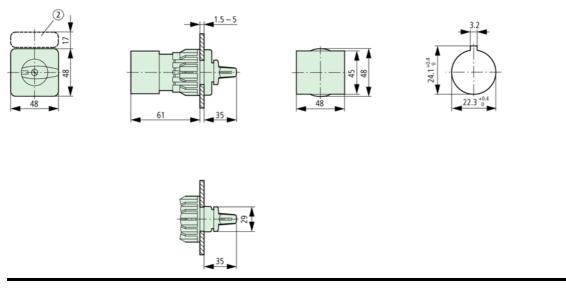
| | | | Load-break switches to |
|---|--------------------------------|-------------------|--|
| | Orientiane | 1.06 | IEC/EN 60947–3 |
| Lifespan, mechanical | Operations | × 10 ⁶ | 1 |
| Maximum operating frequency | Operations/h | | 3000 |
| Climatic proofing | | | Damp heat, constant, to IEC 60068–2–78; Damp heat, cyclical, to IEC 60068–2–30 |
| Ambient temperature | | | |
| Open | | °C | -2550 |
| Enclosed | | °C | -2540 |
| Mounting position | | | As required |
| Mechanical shock resistance to IEC 60068–2–27 | Half–sinusoidal shock 20 ms | g | > 15 |
| Contacts | | - | |
| Rated operational voltage | Ue | V AC | 690 |
| Rated impulse withstand voltage | $U_{ m imp}$ | V AC | 6000 |
| Overvoltage category/pollution degree | | | III/3 |
| Rated uninterrupted current | | | |
| open | <i>I</i> u | А | 20 |
| Enclosed | <i>I</i> u | А | 20 |
| Load rating with intermittent operation, class 12 | | | |
| AB 25 % DF | | × Ie | 2 |
| AB 40 % DF | | × Ie | 1,6 |
| AB 60 % DF | | × Ie | 1,3 |
| Short-circuit rating | | | |
| Fuse | | A gG/gL | 20 |
| Rated short-time withstand current (1 s current) | I _{cw} | A _{rms} | 320 |
| Safe isolation to VDE 0106 Part 101 and Part 101/A1 | | | |
| between the contacts | | V AC | 440 |
| Switching angles | | o | 90 60 45 30 |
| Contact units | | | 11 |
| Double-break contacts | | | max. 22 |
| Current heat loss per contact at $I_{\rm e}$ | | W | 0,6 |
| Terminal capacities | | | |

| Solid or stranded | | mm ² | $1 \times (1 - 2.5)$ |
|---|----------------|-----------------|--------------------------------------|
| Flexible with ferrule to DIN | | | $2 \times (1 - 2.5)$ |
| 46228 | | mm ² | 1 × (0.75 – 1.5) 2 × (0.75 – 1.5) |
| Terminal screw | | | M3.5 |
| Tightening torque | | Nm | 1 |
| Switching capacity | | | |
| AC | | | |
| Rated making capacity cos = 0.35 | | А | 130 |
| Rated breaking capacity, motor load switch $\cos = 0.35$ | | | |
| 230 V | | А | 100 |
| 400 V | | А | 110 |
| 500 V | | А | 80 |
| 690 V | | А | 60 |
| Rated operational current 440 V load-break switch AC-21A | <i>l</i> e | А | 20 |
| AC–3 motor load switch motor rating | | | |
| 230 V | Р | kW | 1,1 |
| 230 V Star-delta | Р | kW | 4 |
| 400 V | Р | kW | 1,3 |
| 400 V Star-delta | Р | kW | 5,5 |
| 500 V | Р | kW | 5,5 |
| 500 V Star-delta | Р | kW | 7,5 |
| 690 V | Р | kW | 4 |
| 690 V Star-delta | Р | kW | 5,5 |
| AC–23A Motor load switches (main switches maintenance switches) | | | |
| 230 V | Р | kW | 3,5 |
| 400 V | Р | kW | 6,5 |
| 500 V | Р | kW | 13 |
| Rated operational current control switch AC-15 | | | |
| 230 V | l _e | А | 6 |
| 400 V | l _e | А | 4 |
| 500 V | l _e | А | 2 |
| DC | | | |
| | | | |
| | | | |

| DC-1, Load-break switches L/R = 1 msImage: switches L/R = 1 msImage: switches L/R = 0Rated operational current l_{θ} A10Oklage per contact pair in seriesV60DC-21AQuantity1Rated operational current 240 V l_{θ} A1240 V ContactsQuantity1DC-23A, motor load switch L/R = 15 msQuantity124 VImage: switches L/R = 0A10ContactsQuantity124 VImage: switches L/R = 0A10ContactsQuantity2Image: switches L/R = 0Rated operational current l_e A10ContactsQuantity3Image: switches L/R = 0Rated operational current l_e A10ContactsQuantity3Image: switches L/R = 0Rated operational current l_e A5ContactsQuantity3Image: switches L/R = 0Rated operational current l_e A10Voltage per contact pair in seriesV32Control switches L/R = 50 msFault probabilityHF<10 - 5, <1 fault in 10000 operationsNotesV32Image: switches L/R sistance: T3 | | | | |
|---|------------------------------------|-------------------|-------------|---|
| Voltage per contact pair in seriesV60DC-21AIIRated operational current 240 V l_e A1240 V ContactsQuantity1DC-23A, motor load switch L/RII15 msIII24 VIIIRated operational current l_e A10ContactsQuantity1IRated operational current l_e A10ContactsIQuantity260 VIIIContactsQuantity260 VIII120 VIIRated operational current l_e A10ContactsQuantity3I120 VIIIRated operational current l_e A5ContactsQuantity3I240 VIIIRated operational current l_e A5ContactsQuantityII240 VIIIRated operational current l_e A5ContactsIQuantityI240 VIIIRated operational current l_e A5ContactsIIIIDC-13, Control switches L/R =IIIOntrol circuit reliability at 24 VFault probabilityH _F I I I I I I I I I I I I I I I I I I I | | | | |
| DC-21AImage: constraint of the set of th | Rated operational current | l _e | А | 10 |
| Rated operational current 240 V l_{b} A1240 V ContactsQuantity1DC-23A, motor load switch L/R = 15 ms | Voltage per contact pair in series | | V | 60 |
| 240 V ContactsImage: control load switch L/R = 15 msImage: control load switch L/R = 15 msImage: control load switch L/R = 15 msImage: control load switch L/R = 16 msImage: control Loa | DC-21A | | | |
| DC-23A, motor load switch L/R = 15 msImage: second secon | Rated operational current 240 V | l _e | А | 1 |
| = 15 msImage: state st | 240 V Contacts | | Quantity | 1 |
| Rated operational current l_6 A10ContactsQuantity148 VImage: ContactsQuantity2Rated operational current l_6 A10ContactsQuantity2160 VImage: ContactsQuantity260 VImage: ContactsQuantity3120 VImage: ContactsQuantity3120 VImage: ContactsQuantity3120 VImage: ContactsQuantity3240 VImage: ContactsQuantity3240 VImage: ContactsQuantity3240 VImage: ContactsQuantity3240 VImage: ContactsQuantity3240 VImage: ContactsQuantity3ContactsQuantity5Image: ContactsContactsQuantity5Image: ContactsDC-13, Control switches L/R = 50 msImage: Contact pair in seriesV32Control circuit reliability at 24 V DC, 10 mAFault probability H_F $resistance: T3f$ | | | | |
| ContactsQuantity148 VImage: Contacts of the contact of the | 24 V | | | |
| 48 VImage: constraint of the set of the | Rated operational current | <i>I</i> e | А | 10 |
| Rated operational current l_{e} A10ContactsQuantity260 VIIRated operational current l_{e} A10ContactsQuantity3120 VIIRated operational current l_{e} A5ContactsQuantity3240 VIIRated operational current l_{e} A5ContactsQuantity3240 VIIRated operational current l_{e} A5ContactsQuantity5DC-13, Control switches L/R = 50 msIQuantity5Rated operational current l_{e} A10Voltage per contact pair in seriesV32Control circuit reliability at 24 V DC, 10 mAFault probability H_F For mechanical shock resistances T3/>12g Applies to T0(3)/SVB: isolating characteristics to isolating characteristics to intervNotesIIIIIIIIIIII< | Contacts | | Quantity | 1 |
| ContactsQuantityQuantityQuantity60 VIIRated operational current l_e A10ContactsQuantity3120 VIIRated operational current l_e A5ContactsQuantity3240 VIIRated operational current l_e A5ContactsQuantity3240 VIIRated operational current l_e A5ContactsQuantity5DC-13, Control switches L/R = 50 msIIRated operational current l_e A10Voltage per contact pair in series Control circuit reliability at 24 V DC, 10 mAFault probabilityH _F $<10^{-5}, < 1$ fault in 100000 operationsNotesIFault probabilityH _F For mechanical shock resistance: T3/L>12g Applies to T0(3)/SVB: isolating characteristics to IEC/EN 60947 Ufor rated operational voltage up to 500 V AC Applies to rated uninterrupted current l_u of the contact: with | 48 V | | | |
| 60 VImage: series of the series | Rated operational current | <i>l</i> e | А | 10 |
| Rated operational current l_{e} A10ContactsQuantity3120 VIIRated operational current l_{e} A5ContactsQuantity3240 VIIRated operational current l_{e} A5ContactsQuantity5ContactsQuantity5DC-13, Control switches L/R = 50 msIQuantityRated operational current l_{e} A10Voltage per contact pair in seriesV32Control circuit reliability at 24 V DC, 10 mAFault probability H_F c10 $^{-5}$, < 1 fault in 100000 operationsNotesNotesFor mechanical shock resistance: T3/l >12g Applies to T0(3)SVB: isolating characteristics to IEC/EN 60947 Ufor rated operational voltage up to 500 V AC Applies to rated uninterrupted current l_{u} of the contact: with | Contacts | | Quantity | 2 |
| ContactsQuantity3120 VIIRated operational current l_e A5ContactsQuantity3240 VIIRated operational current l_e A5ContactsQuantity5ContactsQuantity5DC-13, Control switches L/R = 50 msIISo msI l_e A10Rated operational current l_e A10Voltage per contact pair in seriesV32Control circuit reliability at 24 V DC, 10 mAFault probability H_F $c^{10-5}, < 1$ fault in 100000 operationsNotesFor mechanical shock resistance: T3/l >12g Applies to T0(3)/SVB: isolating characteristics to IEC/EN 60947 Ufor rated operational voltage up to 500 V AC Applies to rated uninterrupted current l_u of the contact: with | 60 V | | | |
| 120 VImage: set of the set of | Rated operational current | l _e | А | 10 |
| Rated operational currentImage: Image: I | Contacts | | Quantity | 3 |
| ContactsQuantity3240 VImage: Generational current l_e A5Rated operational current l_e A5ContactsQuantity5Image: Generational current l_e ADC-13, Control switches L/R = 50 msImage: Generational current l_e A10Notage per contact pair in seriesImage: Generational current l_e A10Voltage per contact pair in seriesImage: Generational current l_e A10NotesFault probability H_F $< 10^{-5}, < 1$ fault in 100000 operationsImage: Generational currentNotesImage: Generational currentImage: Generational currentImage: Generational currentImage: Generational currentNotesFault probability H_F $< 10^{-5}, < 1$ fault in 100000 operationsImage: Generational currentNotesImage: Generational current c | 120 V | | | |
| 240 VImage: set of the set of | Rated operational current | l _e | А | 5 |
| Rated operational currentIA5ContactsQuantity5DC-13, Control switches L/R = 50 msIIRated operational currentIA10Voltage per contact pair in seriesV32Control circuit reliability at 24 V DC, 10 mAFault probabilityHF<10 -5, < 1 fault in 100000 operationsNotesVSistematic seriesIINotesIIIINotesIII< | Contacts | | Quantity | 3 |
| ContactsQuantity5DC-13, Control switches L/R = 50 msImage: Simple state | 240 V | | | |
| DC-13, Control switches L/R = 50 msImage: Second systemRated operational current l_e ANotage per contact pair in seriesV32Control circuit reliability at 24 V DC, 10 mAFault probability H_F $<10^{-5}, <1$ fault in 100000 operationsNotesFor mechanical shock resistance: T3/l >12g Applies to T0(3)/SVB: isolating characteristics to IEC/EN 60947 <i>U</i> for rated operational voltage up to 500 V AC Applies to rated uninterrupted current l_u of the contact: with | Rated operational current | l _e | А | 5 |
| 50 msImage: second | Contacts | | Quantity | 5 |
| Voltage per contact pair in seriesV32Control circuit reliability at 24 V DC, 10 mAFault probabilityHF<10 ⁻⁵ , < 1 fault in 100000 operationsNotesFormechanical shock resistance: T3/I >12g Applies to T0(3)/SVB: isolating characteristics to IEC/EN 60947 <i>U</i> for rated operational voltage up to 500 V AC Applies to rated uninterrupted current <i>I</i> _u of the contact: with | | | | |
| Control circuit reliability at 24 V DC, 10 mAFault probabilityHF< 10 -5, < 1 fault in 100000 operationsNotesNotesNotesFor mechanical shock resistance: T3/I >12g Applies to T0(3)/SVB: isolating characteristics to IEC/EN 60947 <i>U</i> for rated operational voltage up to 500 V AC Applies to rated uninterrupted current <i>I</i> _u of the contact: with | Rated operational current | l _e | А | 10 |
| DC, 10 mAPault probabilityHFoperationsNotesFor mechanical shock resistance: T3/I >12g Applies to T0(3)/SVB: isolating characteristics to IEC/EN 60947 <i>U</i> for rated operational voltage up to 500 V AC Applies to rated uninterrupted current <i>I</i> _u of the contact: with | Voltage per contact pair in series | | V | 32 |
| NotesFor mechanical shock resistance: T3/I >12g Applies to T0(3)/SVB: isolating characteristics to IEC/EN 60947 Ufor rated operational voltage up to 500 V AC Applies to rated uninterrupted current lu of the contact: with | • | Fault probability | $H_{\rm F}$ | |
| resistance: T3/I >12g Applies to T0(3)/SVB: isolating characteristics to IEC/EN 60947 <i>U</i> for rated operational voltage up to 500 V AC Applies to rated uninterrupted current <i>I</i> _u of the contact: with | Notes | | | |
| | Notes | | | resistance: T3/I >12g Applies to T0(3)/SVB: isolating characteristics to IEC/EN 60947 <i>U</i> for rated operational voltage up to 500 V AC Applies to rated uninterrupted current I_u of the contact: with |

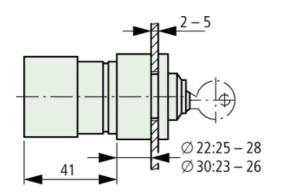
| | For terminal capacity solid, stranded and flexible: T0(3), (6), (8): Maximum of 2 cross–section sizes difference admissible between 2 conductors T5(B)–: Maximum of 1 cross–section size difference admissible between 2 conductors For type T8–3–8342/ the following applies: switching angle = 90° and flat connection = 1 busbar 25 × |
|--|---|
| | • |

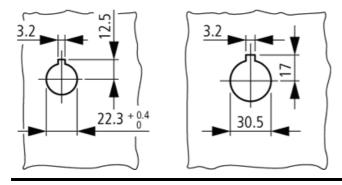
Dimensions



not included Depth of a contact unit: 9.5 mm

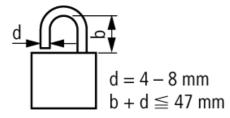
Dimensions



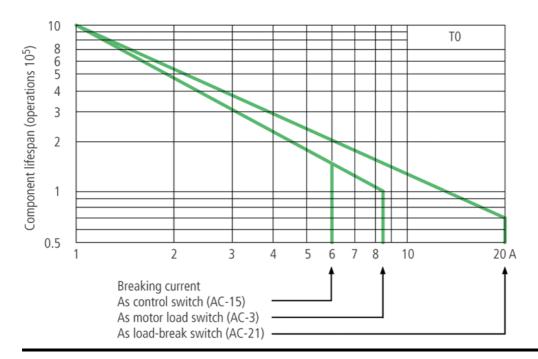


T0-1-.../EZ "Y T0-1-.../E + EZ-T0 + S-(SOND-)T0

Dimensions



Characteristic curve



For utilisation category AC-4 (extreme load: 100 % inching, reversing or plugging) The blocked rotor current of the motor should not exceed the rated current of the switch for AC-21A to ensure a reasonable device lifespan.

Moeller GmbH, Hein–Moeller–Str. 7–11, D–53115 Bonn E–Mail: catalog@moeller.net, Internet: www.moeller.net, http://catalog.moeller.net HPL–C2007G V2.1 © 2007 by Moeller GmbH

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