



Changeoverswitches, T3, 32 A, flush mounting, 2 contact unit(s), Contacts: 4, 45 °, maintained, With 0 (Off) position, 2-0-1, design no. 15422

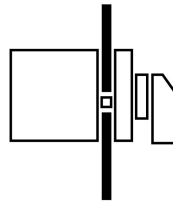
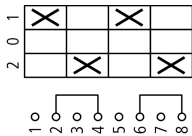
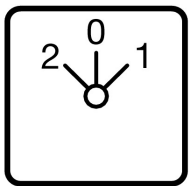


Referencia **T3-2-15422/E**  
 Catalog No. **073730**



Similar to illustration

**Delivery program**

|  |                |                 |   |
|--|----------------|-----------------|---|
| Product range                                      |                |                 | Control switches  |
| Part group reference                               |                |                 | T3  |
| Basic function                                     |                |                 | Changeoverswitches<br>with black thumb grip and front plate   |
| Contacts   |                |                 | 4   |
| Degree of Protection                               |                |                 | Front IP65  |
| Design   |                |                 | flush mounting<br>  |
| Contact sequence                                   |                |                 |                    |
| Switching angle                                    |                | °               | 45  |
| Switching performance                              |                |                 | maintained<br>With 0 (Off) position   |
| Design number                                      |                |                 | 15422   |
| Front plate no.                                    |                |                 | <br><b>FS 429</b> |
| front plate  |                |                 | 2-0-1   |
| <b>Motor rating AC-23A, 50 - 60 Hz</b>             |                |                 |   |
| 400 V  | P              | kW              | 15  |
| Rated uninterrupted current                        | I <sub>u</sub> | A               | 32  |
| Note on rated uninterrupted current I <sub>u</sub> |                |                 | Rated uninterrupted current I <sub>u</sub> is specified for max. cross-section.                       |
| Number of contact units                            |                | contact unit(s) | 2   |

**Technical data**

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

|                                       |           |      |             |
|---------------------------------------|-----------|------|-------------|
| Overvoltage category/pollution degree |           |      | III/3       |
| Rated impulse withstand voltage       | $U_{imp}$ | V AC | 6000        |
| Mechanical shock resistance           |           | g    | 15          |
| Mounting position                     |           |      | As required |

## Contacts

|   |          |              |  |
|---|----------|--------------|--|
| Electrical characteristics                          |          |              |  |
| Rated operational voltage                           | $U_e$    | V AC         | 690  |
| Rated uninterrupted current                         | $I_u$    | A            | 32   |
| Note on rated uninterrupted current $I_u$           |          |              | Rated uninterrupted current $I_u$ is specified for max. cross-section. |
| Load rating with intermittent operation, class 12   |          |              |  |
| AB 25 % DF  |          | $\times I_e$ | 2  |
| AB 40 % DF  |          | $\times I_e$ | 1.6  |
| AB 60 % DF  |          | $\times I_e$ | 1.3  |
| Short-circuit rating                                |          |              |  |
| Fuse  |          | A gG/gL      | 35   |
| Rated short-time withstand current (1 s current)    | $I_{cw}$ | $A_{rms}$    | 650  |
| Note on rated short-time withstand current $I_{cw}$ |          |              | Current for a time of 1 second   |
| Rated conditional short-circuit current             | $I_q$    | kA           | 1  |

## Switching capacity

|  |              |               |       |
|--|--------------|---------------|-------|
| cos $\phi$ rated making capacity as per IEC 60947-3            |              | A             | 320   |
| Rated breaking capacity cos $\phi$ to IEC 60947-3              |              | A             |       |
| 230 V  |              | A             | 260   |
| 400/415 V  |              | A             | 260   |
| 500 V  |              | A             | 240   |
| 690 V  |              | A             | 170   |
| Safe isolation to EN 61140                                     |              |               |       |
| between the contacts   |              | V AC          | 440   |
| Current heat loss per contact at $I_e$                         |              | W             | 1.1   |
| Current heat loss per auxiliary circuit at $I_e$ (AC-15/230 V) |              | CO            | 1.1   |
| Lifespan, mechanical   | Operations   | $\times 10^6$ | > 0.5 |
| Maximum operating frequency                                    | Operations/h |               | 1200  |
| AC   |              |               |       |
| AC-3   |              |               |       |
| Rating, motor load switch                                      | P            | kW            |       |
| 220 V 230 V  | P            | kW            | 5.5   |
| 230 V Star-delta   | P            | kW            | 7.5   |
| 400 V 415 V  | P            | kW            | 11    |
| 400 V Star-delta   | P            | kW            | 15    |
| 500 V  | P            | kW            | 15    |
| 500 V Star-delta   | P            | kW            | 18.5  |
| 690 V  | P            | kW            | 11    |
| 690 V Star-delta   | P            | kW            | 22    |
| Rated operational current motor load switch                    |              |               |       |
| 230 V  | $I_e$        | A             | 23.7  |
| 230 V star-delta   | $I_e$        | A             | 32    |
| 400V 415 V   | $I_e$        | A             | 23.7  |
| 400 V star-delta   | $I_e$        | A             | 32    |
| 500 V  | $I_e$        | A             | 23.7  |
| 500 V star-delta   | $I_e$        | A             | 32    |
| 690 V  | $I_e$        | A             | 14.7  |
| 690 V star-delta   | $I_e$        | A             | 25.5  |
| AC-23A   |              |               |       |
| Motor rating AC-23A, 50 - 60 Hz                                | P            | kW            |       |
| 230 V  | P            | kW            | 7.5   |

|   |                   |                |  |
|---|-------------------|----------------|--|
| 400 V 415 V                                   | P                 | kW             | 15   |
| 500 V   | P                 | kW             | 15   |
| 690 V   | P                 | kW             | 15   |
| Rated operational current motor load switch   |                   |                |  |
| 230 V   | I <sub>e</sub>    | A              | 32   |
| 400 V 415 V                                   | I <sub>e</sub>    | A              | 32   |
| 500 V   | I <sub>e</sub>    | A              | 26.4   |
| 690 V   | I <sub>e</sub>    | A              | 17   |
| DC  |                   |                |  |
| DC-1, Load-break switches L/R = 1 ms          |                   |                |  |
| Rated operational current                     | I <sub>e</sub>    | A              | 25   |
| Voltage per contact pair in series            |                   | V              | 60   |
| DC-21A  |                   |                |  |
| Rated operational current                     | I <sub>e</sub>    | A              | 1  |
| Contacts                                      |                   | Quantity       | 1  |
| DC-23A, motor load switch L/R = 15 ms         |                   |                |  |
| 24 V  |                   |                |  |
| Rated operational current                     | I <sub>e</sub>    | A              | 25   |
| Contacts                                      |                   | Quantity       | 1  |
| 48 V  |                   |                |  |
| Rated operational current                     | I <sub>e</sub>    | A              | 25   |
| Contacts                                      |                   | Quantity       | 2  |
| 60 V  |                   |                |  |
| Rated operational current                     | I <sub>e</sub>    | A              | 25   |
| Contacts                                      |                   | Quantity       | 3  |
| 120 V   |                   |                |  |
| Rated operational current                     | I <sub>e</sub>    | A              | 12   |
| Contacts                                      |                   | Quantity       | 3  |
| 240 V   |                   |                |  |
| Rated operational current                     | I <sub>e</sub>    | A              | 5  |
| Contacts                                      |                   | Quantity       | 5  |
| DC-13, Control switches L/R = 50 ms           |                   |                |  |
| Rated operational current                     | I <sub>e</sub>    | A              | 20   |
| Voltage per contact pair in series            |                   | V              | 24   |
| Control circuit reliability at 24 V DC, 10 mA | Fault probability | H <sub>F</sub> | < 10 <sup>-5</sup> , < 1 failure in 100,000 switching operations |

### Terminal capacities

|                                      |  |                 |                                  |
|--------------------------------------|--|-----------------|----------------------------------|
| Solid or stranded                    |  | mm <sup>2</sup> | 1 x (1 - 6)<br>2 x (1 - 6)       |
| Flexible with ferrules to DIN 46228  |  | mm <sup>2</sup> | 1 x (0.75 - 4)<br>2 x (0.75 - 4) |
| Terminal screw                       |  |                 | M4                               |
| Tightening torque for terminal screw |  | Nm              | 1.6                              |

### Technical safety parameters:

|              |  |  |   |
|--------------|--|--|---|
| <b>Notes</b> |  |  | B10 <sub>d</sub> values as per EN ISO 13849-1, table C1 |
|--------------|--|--|---|

### Rating data for approved types

|                                  |                |      |       |
|----------------------------------|----------------|------|-------|
| Contacts                         |                |      |       |
| Rated operational voltage        | U <sub>e</sub> | V AC | 600   |
| Rated uninterrupted current max. |                |      |       |
| Main conducting paths            |                |      |       |
| General use                      |                | A    | 25    |
| Auxiliary contacts               |                |      |       |
| General Use                      | I <sub>U</sub> | A    | 10    |
| Pilot Duty                       |                |      | A 600 |
| Switching capacity               |                |      |       |
| Maximum motor rating             |                |      |       |

|  |       |             |  |
|--|-------|-------------|--|
| Single-phase                             |       |             |  |
| 120 V AC                                 | HP    | 1.5         |  |
| 200 V AC                                 | HP    | 3           |  |
| 240 V AC                                 | HP    | 3           |  |
| Three-phase                              |       |             |  |
| 200 V AC                                 | HP    | 3           |  |
| 240 V AC                                 | HP    | 3           |  |
| 480 V AC                                 | HP    | 7.5         |  |
| 600 V AC                                 | HP    | 10          |  |
| Short Circuit Current Rating             | SCCR  |             |  |
| Basic Rating                             | kA    | 5           |  |
| max. Fuse                                | A     | 40          |  |
| High fault rating                        | kA    | 10          |  |
| max. Fuse                                | A     | 40, Class J |  |
| Terminal capacity                        |       |             |  |
| Solid or flexible conductor with ferrule | AWG   | 14 - 10     |  |
| Terminal screw                           |       | M4          |  |
| Tightening torque                        | lb-in | 17.7        |  |

## Design verification as per IEC/EN 61439

|  |            |    |  |
|--|------------|----|--|
| Datos técnicos para la verificación del diseño   |            |    |  |
| Intensidad asignada de empleo para disipación térmica específica   | $I_n$      | A  | 32   |
| Disipación térmica por polo, en función de la intensidad   | $P_{vid}$  | W  | 1.1  |
| Disipación térmica del equipo, en función de la intensidad   | $P_{vid}$  | W  | 0  |
| Disipación térmica estática, en función de la intensidad   | $P_{vs}$   | W  | 0  |
| Capacidad de disipación térmica  | $P_{diss}$ | W  | 0  |
| Temperatura ambiente mínima de funcionamiento  |            | °C | -25  |
| Temperatura ambiente máxima de funcionamiento  |            | °C | 50   |
| Verificación de diseño IEC / EN 61439  |            |    |  |
| 10.2 Resistencia de materiales y piezas  |            |    |  |
| 10.2.2 Resistencia a la corrosión  |            |    | Cumple con los requisitos de la norma del producto.  |
| 10.2.3.1 Verificación de la estabilidad térmica de los armarios  |            |    | Cumple con los requisitos de la norma del producto.  |
| 10.2.3.2 Verificación de la resistencia de los materiales aislantes en condiciones de calor normales                                       |            |    | Cumple con los requisitos de la norma del producto.  |
| 10.2.3.3. Verificación de la resistencia de los materiales aislantes al calor excesivo y al fuego debido a los efectos eléctricos internos |            |    | Cumple con los requisitos de la norma del producto.  |
| 10.2.4 Resistencia a radiación ultravioleta (UV)   |            |    | UV resistance only in connection with protective shield.   |
| 10.2.5 Elevación   |            |    | No se aplica, ya que todo el equipo de conmutación debe ser evaluado.  |
| 10.2.6 Impacto mecánico  |            |    | No se aplica, ya que todo el equipo de conmutación debe ser evaluado.  |
| 10.2.7 Inscripciones   |            |    | Cumple con los requisitos de la norma del producto.  |
| 10.3 Grado de protección de montajes   |            |    | No se aplica, ya que todo el equipo de conmutación debe ser evaluado.  |
| 10.4 Distancias de separación y fuga   |            |    | Cumple con los requisitos de la norma del producto.  |
| 10.5 Protección contra descargas eléctricas  |            |    | No se aplica, ya que todo el equipo de conmutación debe ser evaluado.  |
| 10.6 Incorporación de dispositivos y componentes de conmutación  |            |    | No se aplica, ya que todo el equipo de conmutación debe ser evaluado.  |
| 10.7 Conexiones y circuitos eléctricos internos  |            |    | Es responsabilidad del cuadrista.  |
| 10.8 Conexiones de conductores externos  |            |    | Es responsabilidad del cuadrista.  |
| 10.9 Propiedades de aislamiento  |            |    |  |
| 10.9.2 Resistencia eléctrica de frecuencia de alimentación   |            |    | Es responsabilidad del cuadrista.  |
| 10.9.3 Tensión de impulso soportada  |            |    | Es responsabilidad del cuadrista.  |
| 10.9.4 Pruebas de armarios hechos de material aislante   |            |    | Es responsabilidad del cuadrista.  |
| 10.10 Aumento de la temperatura  |            |    | El cuadrista es responsable del cálculo del aumento de la temperatura. Eaton proporcionará datos de disipación de calor para los dispositivos. |
| 10.11 Resistencia a los cortocircuitos   |            |    | Es responsabilidad del cuadrista. Deben tenerse en cuenta las especificaciones de la aparamenta.   |
| 10.12 Compatibilidad electromagnética  |            |    | Es responsabilidad del cuadrista. Deben tenerse en cuenta las especificaciones de la aparamenta.   |

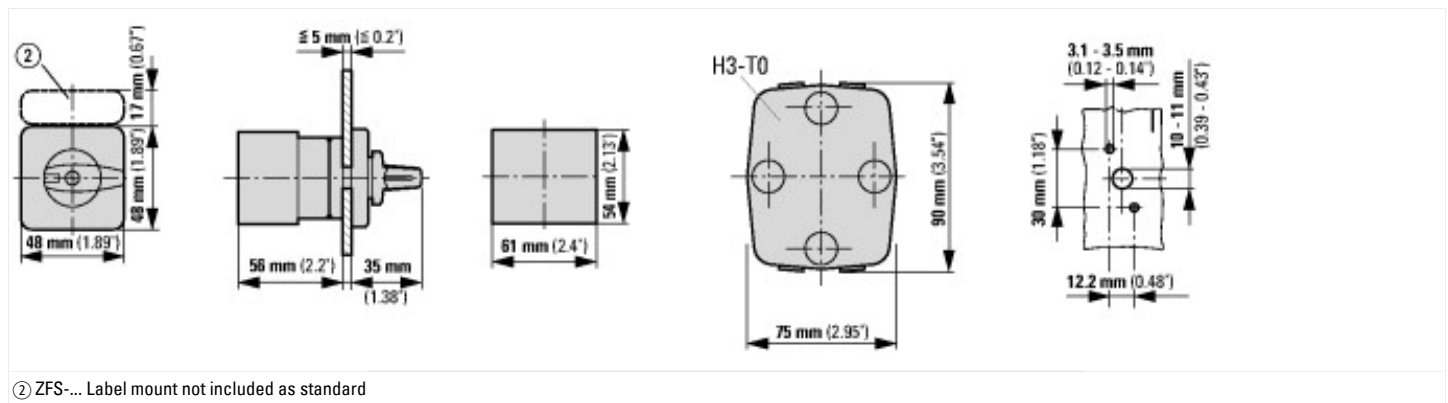
## Technical data ETIM 7.0

| Conmutadores en baja tensión (EG000017) / Conmutador de carga (EC001105)   |                                       |
|--|---------------------------------------|
| Tecnología electrónica, de automatización y de mando de procesos / Tecnología de conmutación de baja tensión / Conmutador de carga, seccionador de ruptura de carga, conmutador de control / Conmutador (ecl@ss10.0.1-27-37-14-05 [AKF062013]) |                                       |
| Modelo   | Interruptor de conexión / desconexión |
| Número de polos  | 2                                     |
| Con posición 0 (desconexión)   | Sí                                    |
| Con retracción en la posición 0  | No                                    |
| Intensidad permanente nominal Iu   | Ampere 32                             |
| Intensidad de funcionamiento nominal Ie a CA-3, 400 V  | Ampere 23.7                           |
| Potencia de funcionamiento nominal en CA-3, 400 V  | Kilowatt 12                           |
| Grado de protección (IP), lado delantero   | IP65                                  |
| Número de contactos auxiliares como contacto normalmente cerrado   | 0                                     |
| Número de contactos auxiliares como contacto normalmente abierto   | 0                                     |
| Número de contactos auxiliares como contacto de intercambio  | 0                                     |
| Compatible para montaje en suelo   | No                                    |
| Compatible con montaje frontal de 4 orificios  | Sí                                    |
| Compatible para instalación de panel de distribución   | No                                    |
| Compatible para montaje intermedio   | No                                    |
| Dispositivo completo en alojamiento  | No                                    |
| Material de la carcasa   | Plástico                              |
| Tipo de elemento de control  | Agarre corto para pulgar              |
| Tipo de conexión del circuito de corriente principal   | Conexión enroscada                    |

## 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  |
| Specially designed for North America | Yes, with an alternative front plate and/or terminal markings to those of the IEC type in combination with "+NA" (105864) |
| Suitable for                         | Branch circuits, suitable as motor disconnect   |
| Degree of Protection                 | IEC: IP65; UL/CSA Type 1, 12  |

## Dimensions



## Additional product information (links)

|  |   |
|--|---|
| <b>IL03801020Z (AWA1150-0586) Cam switches: flush mounting</b> |   |
| IL03801020Z (AWA1150-0586) Cam switches: flush mounting        | <a href="https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL03801020Z2021_06.pdf">https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL03801020Z2021_06.pdf</a> |
| Display flip catalog page.                                     | <a href="http://ecat.moeller.net/flip-cat/?edition=K115A&amp;startpage=108">http://ecat.moeller.net/flip-cat/?edition=K115A&amp;startpage=108</a>                                 |

|   |   |
|---|---|
| Technical overview cam switch, switch-disconnector            | <a href="http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.2">http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.2</a>                                     |
| System overview cam switch T                                  | <a href="http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.4">http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.4</a>                                     |
| System overview switch-disconnector P                         | <a href="http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.6">http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.6</a>                                     |
| Key to part numbers Cam switch                                | <a href="http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.8">http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.8</a>                                     |
| Key to part numbers Switch-disconnector                       | <a href="http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.8">http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.8</a>                                     |
| Switches for ATEX   | <a href="http://www.coopercrouse-hinds.eu/en/products/25-ex-safety-and-main-current-switches.html">http://www.coopercrouse-hinds.eu/en/products/25-ex-safety-and-main-current-switches.html</a> |
| Ordering form for SOND switches and SOND front plates(DE_EN)  | <a href="https://es-assets.eaton.com/DOCUMENTATION/PDF/MZ008006ZU_Orderform_Customized_Switch.pdf">https://es-assets.eaton.com/DOCUMENTATION/PDF/MZ008006ZU_Orderform_Customized_Switch.pdf</a> |
| Ordering form for SOND switches and SOND front plates(DE_EN)] | <a href="https://es-assets.eaton.com/DOCUMENTATION/PDF/MZ008005ZU_Orderform_Customized_Switch.pdf">https://es-assets.eaton.com/DOCUMENTATION/PDF/MZ008005ZU_Orderform_Customized_Switch.pdf</a> |