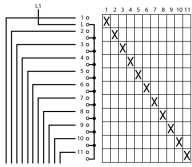



**T5, 100 A, rear mounting, Basic switch, 6 contact unit(s), Contacts: 11, 30 °, design no. 15252**

**Part no. T5-6-15252/X**  
**Catalog No. 094878**

Similar to illustration

### Delivery program

|   |       |                 |   |
|---|-------|-----------------|---|
| Product range                             |       |                 | Control switches  |
| Part group reference                      |       |                 | T5  |
| Contacts                                  |       |                 | 11  |
| Design                                    |       |                 | rear mounting<br>Basic switch   |
| Contact sequence                          |       |                 |             |
| Switching angle                           |       | °               | 30  |
| Design number                             |       |                 | 15252   |
| Front plate no.                           |       |                 | <br>FS 302 |
| <b>Motor rating AC-23A, 50 - 60 Hz</b>    |       |                 |   |
| 400 V                                     | P     | kW              | 55  |
| Rated uninterrupted current               | $I_u$ | A               | 100   |
| Note on rated uninterrupted current $I_u$ |       |                 | Rated uninterrupted current $I_u$ is specified for max. cross-section.                        |
| Number of contact units                   |       | contact unit(s) | 6   |

### Technical data

|                                       |           |      |   |
|---------------------------------------|-----------|------|---|
| <b>General</b>                        |           |      |   |
| Standards                             |           |      | IEC/EN 60947, VDE 0660, IEC/EN 60204<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

|  |       |              |  |
|--|-------|--------------|--|
| <b>Electrical characteristics</b>                        |       |              |  |
| Rated operational voltage                                | $U_e$ | V AC         | 690  |
| Rated uninterrupted current                              | $I_u$ | A            | 100  |
| Note on rated uninterrupted current $I_u$                |       |              | Rated uninterrupted current $I_u$ is specified for max. cross-section. |
| <b>Load rating with intermittent operation, class 12</b> |       |              |  |
| AB 25 % DF   |       | $\times I_e$ | 2  |
| AB 40 % DF   |       | $\times I_e$ | 1.6  |

|   |                 |                   |                                |
|---|-----------------|-------------------|--------------------------------|
| AB 60 % DF  |                 | x I <sub>e</sub>  | 1.3                            |
| Short-circuit rating  |                 |                   |                                |
| Fuse  |                 | A gG/gL           | 100                            |
| Rated short-time withstand current (1 s current)                        | I <sub>cw</sub> | A <sub>rms</sub>  | 1700                           |
| Note on rated short-time withstand current I <sub>cw</sub>              |                 |                   | Current for a time of 1 second |
| Rated conditional short-circuit current                                 | I <sub>q</sub>  | kA                | 2                              |
| <b>Switching capacity</b>   |                 |                   |                                |
| cos φ rated making capacity as per IEC 60947-3                          |                 | A                 | 950                            |
| Rated breaking capacity cos φ to IEC 60947-3                            |                 | A                 |                                |
| 230 V   |                 | A                 | 760                            |
| 400/415 V   |                 | A                 | 740                            |
| 500 V   |                 | A                 | 590                            |
| 690 V   |                 | A                 | 420                            |
| Safe isolation to EN 61140  |                 |                   |                                |
| between the contacts  |                 | V AC              | 440                            |
| Current heat loss per contact at I <sub>e</sub>                         |                 | W                 | 7.5                            |
| Current heat loss per auxiliary circuit at I <sub>e</sub> (AC-15/230 V) |                 | CO                | 7.5                            |
| Lifespan, mechanical  | Operations      | x 10 <sup>6</sup> | > 0.5                          |
| Maximum operating frequency   | Operations/h    |                   | 1200                           |
| <b>AC</b>   |                 |                   |                                |
| <b>AC-3</b>   |                 |                   |                                |
| Rating, motor load switch   | P               | kW                |                                |
| 220 V 230 V   | P               | kW                | 22                             |
| 230 V Star-delta  | P               | kW                | 30                             |
| 400 V 415 V   | P               | kW                | 30                             |
| 400 V Star-delta  | P               | kW                | 45                             |
| 500 V   | P               | kW                | 30                             |
| 500 V Star-delta  | P               | kW                | 45                             |
| 690 V   | P               | kW                | 15                             |
| 690 V Star-delta  | P               | kW                | 22                             |
| Rated operational current motor load switch                             |                 |                   |                                |
| 230 V   | I <sub>e</sub>  | A                 | 71                             |
| 230 V star-delta  | I <sub>e</sub>  | A                 | 100                            |
| 400V 415 V  | I <sub>e</sub>  | A                 | 55                             |
| 400 V star-delta  | I <sub>e</sub>  | A                 | 95.3                           |
| 500 V   | I <sub>e</sub>  | A                 | 44                             |
| 500 V star-delta  | I <sub>e</sub>  | A                 | 76.2                           |
| 690 V   | I <sub>e</sub>  | A                 | 17                             |
| 690 V star-delta  | I <sub>e</sub>  | A                 | 29.4                           |
| <b>AC-23A</b>   |                 |                   |                                |
| Motor rating AC-23A, 50 - 60 Hz   | P               | kW                |                                |
| 230 V   | P               | kW                | 30                             |
| 400 V 415 V   | P               | kW                | 55                             |
| 500 V   | P               | kW                | 37                             |
| 690 V   | P               | kW                | 30                             |
| Rated operational current motor load switch                             |                 |                   |                                |
| 230 V   | I <sub>e</sub>  | A                 | 100                            |
| 400 V 415 V   | I <sub>e</sub>  | A                 | 100                            |
| 500 V   | I <sub>e</sub>  | A                 | 55                             |
| 690 V   | I <sub>e</sub>  | A                 | 32                             |
| <b>DC</b>   |                 |                   |                                |
| <b>DC-1, Load-break switches L/R = 1 ms</b>                             |                 |                   |                                |
| Rated operational current   | I <sub>e</sub>  | A                 | 80                             |
| Voltage per contact pair in series                                      |                 | V                 | 60                             |

|   |                   |                |  |
|---|-------------------|----------------|--|
| 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 (2,5 - 35)<br>2 x (2,5 - 16) |
| Flexible with ferrules to DIN 46228  |  | mm <sup>2</sup> | 1 x (1 - 25)<br>2 x (1.5 - 10)   |
| Terminal screw                       |  |                 | M6                               |
| Tightening torque for terminal screw |  | Nm              | 4                                |

### Technical safety parameters:

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

### Rating data for approved types

|                   |  |  |    |
|-------------------|--|--|----|
| Terminal capacity |  |  |    |
| Terminal screw    |  |  | M6 |

## Design verification as per IEC/EN 61439

|  |                   |    |  |
|--|-------------------|----|--|
| Technical data for design verification   |                   |    |  |
| Rated operational current for specified heat dissipation   | I <sub>n</sub>    | A  | 100  |
| Heat dissipation per pole, current-dependent   | P <sub>vid</sub>  | W  | 7.5  |
| Equipment heat dissipation, current-dependent  | P <sub>vid</sub>  | W  | 0  |
| Static heat dissipation, non-current-dependent   | P <sub>vs</sub>   | W  | 0  |
| Heat dissipation capacity  | P <sub>diss</sub> | 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. 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) / Control switch (EC002611)   |  |  |              |
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Control switch (ecl@ss10.0.1-27-37-14-14 [ACN998011]) |  |  |              |
| Type of switch   |  |  | Level switch |

|  |   |                 |
|--|---|-----------------|
| Number of poles                              |   | 1               |
| Max. rated operation voltage Ue AC           | V | 690             |
| Rated permanent current Iu                   | A | 100             |
| Number of switch positions                   |   | 11              |
| With 0 (off) position                        |   | Yes             |
| With retraction in 0-position                |   | No              |
| Device construction                          |   | Built-in device |
| Width in number of modular spacings          |   | 0               |
| Suitable for ground mounting                 |   | No              |
| Suitable for front mounting 4-hole           |   | No              |
| Suitable for distribution board installation |   | No              |
| Suitable for intermediate mounting           |   | No              |
| Complete device in housing                   |   | No              |
| Type of control element                      |   | Other           |
| Front shield size                            |   | Other           |
| Degree of protection (IP), front side        |   | Other           |
| Degree of protection (NEMA), front side      |   | Other           |

## Additional product information (links)

|  |   |
|--|---|
| Display flip catalog page.                         | <a href="http://ecat.moeller.net/flip-cat/?edition=K115A&amp;startpage=171">http://ecat.moeller.net/flip-cat/?edition=K115A&amp;startpage=171</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> |