



Operation mode switch, T3, 32 A, flush mounting, 4 contact unit(s),  
 Contacts: 8, 60 °, maintained, With 0 (Off) position, 0-1-2, Design number  
 15551

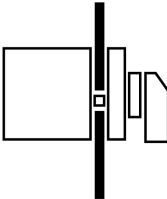
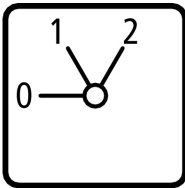


Part no. **T3-4-15551/E**  
 Catalog No. **036961**



Similar to illustration

### Delivery program

| Product range                                      |                |                 | Control switches  |     |   |   |   |  |   |   |   |  |     |   |   |   |  |  |   |   |   |   |     |   |   |   |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |
|--|----------------|-----------------|---|-----|---|---|---|--|---|---|---|--|-----|---|---|---|--|--|---|---|---|---|-----|---|---|---|---|--|----|---|---|--|-----|----|---|--|--|--|----|---|--|---|-----|----|---|--|---|--|----|---|--|---|-----|----|---|--|---|--|----|---|---|--|-----|----|---|--|--|--|----|---|--|---|-----|----|---|--|---|--|----|---|--|---|-----|----|---|--|---|--|
| Part group reference                               |                |                 | T3  |     |   |   |   |  |   |   |   |  |     |   |   |   |  |  |   |   |   |   |     |   |   |   |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |
| Basic function                                     |                |                 | Operation mode switch<br>with black thumb grip and front plate  |     |   |   |   |  |   |   |   |  |     |   |   |   |  |  |   |   |   |   |     |   |   |   |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |
| Contacts   |                |                 | 8   |     |   |   |   |  |   |   |   |  |     |   |   |   |  |  |   |   |   |   |     |   |   |   |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |
| Degree of Protection                               |                |                 | Front IP65  |     |   |   |   |  |   |   |   |  |     |   |   |   |  |  |   |   |   |   |     |   |   |   |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |
| Design   |                |                 | flush mounting<br>  |     |   |   |   |  |   |   |   |  |     |   |   |   |  |  |   |   |   |   |     |   |   |   |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |
| Contact sequence                                   |                |                 | <table border="1"> <thead> <tr> <th></th> <th>0</th> <th>1</th> <th>2</th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>○</td> <td>X</td> <td></td> <td>2.4</td> </tr> <tr> <td>2</td> <td>○</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>○</td> <td>X</td> <td>X</td> <td>3.1</td> </tr> <tr> <td>4</td> <td>○</td> <td>X</td> <td>X</td> <td></td> </tr> <tr> <td>21</td> <td>○</td> <td>X</td> <td></td> <td>5.1</td> </tr> <tr> <td>22</td> <td>○</td> <td></td> <td></td> <td></td> </tr> <tr> <td>25</td> <td>○</td> <td></td> <td>X</td> <td>6.5</td> </tr> <tr> <td>26</td> <td>○</td> <td></td> <td>X</td> <td></td> </tr> <tr> <td>27</td> <td>○</td> <td></td> <td>X</td> <td>2.3</td> </tr> <tr> <td>28</td> <td>○</td> <td></td> <td>X</td> <td></td> </tr> <tr> <td>29</td> <td>○</td> <td>X</td> <td></td> <td>5.3</td> </tr> <tr> <td>30</td> <td>○</td> <td></td> <td></td> <td></td> </tr> <tr> <td>31</td> <td>○</td> <td></td> <td>X</td> <td>5.2</td> </tr> <tr> <td>32</td> <td>○</td> <td></td> <td>X</td> <td></td> </tr> <tr> <td>33</td> <td>○</td> <td></td> <td>X</td> <td>5.2</td> </tr> <tr> <td>34</td> <td>○</td> <td></td> <td>X</td> <td></td> </tr> </tbody> </table> |     | 0 | 1 | 2 |  | 1 | ○ | X |  | 2.4 | 2 | ○ | X |  |  | 3 | ○ | X | X | 3.1 | 4 | ○ | X | X |  | 21 | ○ | X |  | 5.1 | 22 | ○ |  |  |  | 25 | ○ |  | X | 6.5 | 26 | ○ |  | X |  | 27 | ○ |  | X | 2.3 | 28 | ○ |  | X |  | 29 | ○ | X |  | 5.3 | 30 | ○ |  |  |  | 31 | ○ |  | X | 5.2 | 32 | ○ |  | X |  | 33 | ○ |  | X | 5.2 | 34 | ○ |  | X |  |
|  | 0              | 1               | 2   |     |   |   |   |  |   |   |   |  |     |   |   |   |  |  |   |   |   |   |     |   |   |   |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |
| 1  | ○              | X               |   | 2.4 |   |   |   |  |   |   |   |  |     |   |   |   |  |  |   |   |   |   |     |   |   |   |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |
| 2  | ○              | X               |   |     |   |   |   |  |   |   |   |  |     |   |   |   |  |  |   |   |   |   |     |   |   |   |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |
| 3  | ○              | X               | X   | 3.1 |   |   |   |  |   |   |   |  |     |   |   |   |  |  |   |   |   |   |     |   |   |   |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |
| 4  | ○              | X               | X   |     |   |   |   |  |   |   |   |  |     |   |   |   |  |  |   |   |   |   |     |   |   |   |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |
| 21   | ○              | X               |   | 5.1 |   |   |   |  |   |   |   |  |     |   |   |   |  |  |   |   |   |   |     |   |   |   |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |
| 22   | ○              |                 |   |     |   |   |   |  |   |   |   |  |     |   |   |   |  |  |   |   |   |   |     |   |   |   |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |
| 25   | ○              |                 | X   | 6.5 |   |   |   |  |   |   |   |  |     |   |   |   |  |  |   |   |   |   |     |   |   |   |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |
| 26   | ○              |                 | X   |     |   |   |   |  |   |   |   |  |     |   |   |   |  |  |   |   |   |   |     |   |   |   |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |
| 27   | ○              |                 | X   | 2.3 |   |   |   |  |   |   |   |  |     |   |   |   |  |  |   |   |   |   |     |   |   |   |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |
| 28   | ○              |                 | X   |     |   |   |   |  |   |   |   |  |     |   |   |   |  |  |   |   |   |   |     |   |   |   |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |
| 29   | ○              | X               |   | 5.3 |   |   |   |  |   |   |   |  |     |   |   |   |  |  |   |   |   |   |     |   |   |   |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |
| 30   | ○              |                 |   |     |   |   |   |  |   |   |   |  |     |   |   |   |  |  |   |   |   |   |     |   |   |   |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |
| 31   | ○              |                 | X   | 5.2 |   |   |   |  |   |   |   |  |     |   |   |   |  |  |   |   |   |   |     |   |   |   |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |
| 32   | ○              |                 | X   |     |   |   |   |  |   |   |   |  |     |   |   |   |  |  |   |   |   |   |     |   |   |   |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |
| 33   | ○              |                 | X   | 5.2 |   |   |   |  |   |   |   |  |     |   |   |   |  |  |   |   |   |   |     |   |   |   |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |
| 34   | ○              |                 | X   |     |   |   |   |  |   |   |   |  |     |   |   |   |  |  |   |   |   |   |     |   |   |   |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |
| Switching angle                                    |                | °               | 60  |     |   |   |   |  |   |   |   |  |     |   |   |   |  |  |   |   |   |   |     |   |   |   |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |
| Switching performance                              |                |                 | maintained<br>With 0 (Off) position   |     |   |   |   |  |   |   |   |  |     |   |   |   |  |  |   |   |   |   |     |   |   |   |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |
| Design number                                      |                |                 | 15551   |     |   |   |   |  |   |   |   |  |     |   |   |   |  |  |   |   |   |   |     |   |   |   |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |
| Front plate no.                                    |                |                 | <br><b>FS 614</b>   |     |   |   |   |  |   |   |   |  |     |   |   |   |  |  |   |   |   |   |     |   |   |   |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |
| front plate  |                |                 | 0-1-2   |     |   |   |   |  |   |   |   |  |     |   |   |   |  |  |   |   |   |   |     |   |   |   |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |
| <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) | 4   |     |   |   |   |  |   |   |   |  |     |   |   |   |  |  |   |   |   |   |     |   |   |   |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |    |   |   |  |     |    |   |  |  |  |    |   |  |   |     |    |   |  |   |  |    |   |  |   |     |    |   |  |   |  |

## Technical data

### General

|                                       |           |      |  |
|---------------------------------------|-----------|------|--|
| 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  |          | x $I_e$   | 2  |
| AB 40 % DF  |          | x $I_e$   | 1.6  |
| AB 60 % DF  |          | x $I_e$   | 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   | x $10^6$ | > 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 <sub>e</sub>    | A              | 32   |
| 500 V   | I <sub>e</sub>    | A              | 23.7   |
| 500 V star-delta                              | I <sub>e</sub>    | A              | 32   |
| 690 V   | I <sub>e</sub>    | A              | 14.7   |
| 690 V star-delta                              | I <sub>e</sub>    | A              | 25.5   |
| <b>AC-21A</b>                                 |                   |                |  |
| Rated operational current switch              |                   |                |  |
| 440 V   | I <sub>e</sub>    | A              | 32   |
| <b>AC-23A</b>                                 |                   |                |  |
| Motor rating AC-23A, 50 - 60 Hz               |                   |                |  |
| 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   |
| <b>DC</b>                                     |                   |                |  |
| <b>DC-1, Load-break switches L/R = 1 ms</b>   |                   |                |  |
| Rated operational current                     |                   |                |  |
|   | I <sub>e</sub>    | A              | 25   |
| Voltage per contact pair in series            |                   |                |  |
|   |                   | V              | 60   |
| <b>DC-21A</b>                                 |                   |                |  |
| Rated operational current                     |                   |                |  |
|   | I <sub>e</sub>    | A              | 1  |
| Contacts                                      |                   |                |  |
|   |                   | Quantity       | 1  |
| <b>DC-23A, motor load switch L/R = 15 ms</b>  |                   |                |  |
| 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  |
| <b>DC-13, Control switches L/R = 50 ms</b>    |                   |                |  |
| 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:

| Notes                                    |                |       | B10 <sub>d</sub> values as per EN ISO 13849-1, table C1 |
|--|----------------|-------|---|
| <b>Rating data for approved types</b>    |                |       |   |
| <b>Contacts</b>                          |                |       |   |
| Rated operational voltage                | U <sub>e</sub> | V AC  | 600   |
| Rated uninterrupted current max.         |                |       |   |
| <b>Main conducting paths</b>             |                |       |   |
| General use                              |                | A     | 25  |
| <b>Auxiliary contacts</b>                |                |       |   |
| General Use                              | I <sub>U</sub> | A     | 10  |
| Pilot Duty                               |                |       | A 600   |
| <b>Switching capacity</b>                |                |       |   |
| <b>Maximum motor rating</b>              |                |       |   |
| <b>Single-phase</b>                      |                |       |   |
| 120 V AC                                 |                | HP    | 1.5   |
| 200 V AC                                 |                | HP    | 3   |
| 240 V AC                                 |                | HP    | 3   |
| <b>Three-phase</b>                       |                |       |   |
| 200 V AC                                 |                | HP    | 3   |
| 240 V AC                                 |                | HP    | 3   |
| 480 V AC                                 |                | HP    | 7.5   |
| 600 V AC                                 |                | HP    | 10  |
| <b>Short Circuit Current Rating</b>      |                |       |   |
| <b>Basic Rating</b>                      |                |       |   |
| Basic Rating                             |                | kA    | 5   |
| max. Fuse                                |                | A     | 40  |
| <b>High fault rating</b>                 |                |       |   |
| High fault rating                        |                | kA    | 10  |
| max. Fuse                                |                | A     | 40, Class J   |
| <b>Terminal capacity</b>                 |                |       |   |
| 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

|  |                   |    |  |
|--|-------------------|----|--|
| <b>Technical data for design verification</b>  |                   |    |  |
| Rated operational current for specified heat dissipation   | I <sub>n</sub>    | A  | 32   |
| Heat dissipation per pole, current-dependent   | P <sub>vid</sub>  | W  | 1.1  |
| 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   |
| <b>IEC/EN 61439 design verification</b>  |                   |    |  |
| <b>10.2 Strength of materials and parts</b>  |                   |    |  |
| <b>10.2.2 Corrosion resistance</b>   |                   |    |  |
| 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.                         |

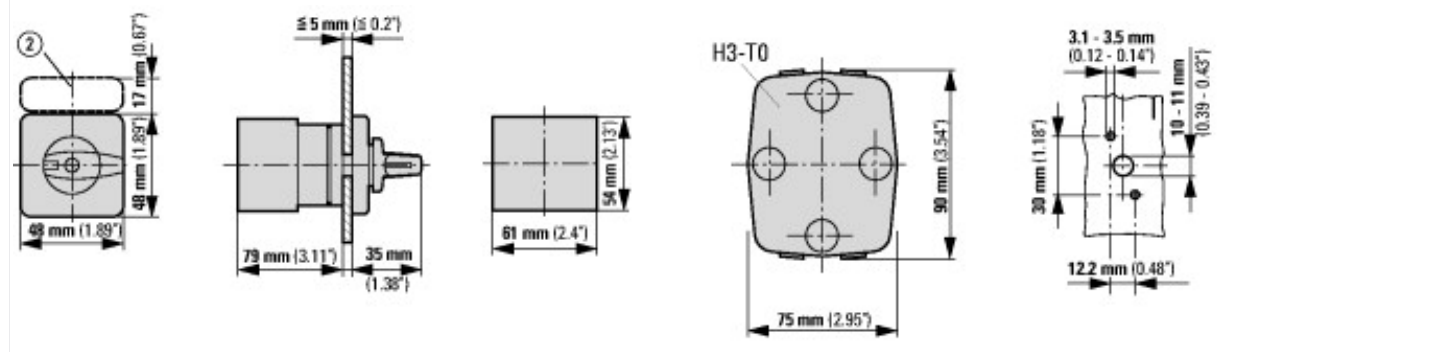
## Technical data ETIM 7.0

|  |   |                 |
|--|---|-----------------|
| 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   |   | Reverser        |
| Number of poles  |   | 0               |
| Max. rated operation voltage Ue AC   | V | 690             |
| Rated permanent current Iu   | A | 32              |
| Number of switch positions   |   | 3               |
| 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   |   | Yes             |
| Suitable for distribution board installation   |   | No              |
| Suitable for intermediate mounting   |   | No              |
| Complete device in housing   |   | No              |
| Type of control element  |   | Toggle          |
| Front shield size  |   | 48x48 mm        |
| Degree of protection (IP), front side  |   | IP65            |
| Degree of protection (NEMA), front side  |   | 12              |

## 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



② ZFS-... Label mount not included as standard

## Additional product information (links)

### IL03801020Z (AWA1150-0586) Cam switches: flush mounting

|  |   |
|--|---|
| IL03801020Z (AWA1150-0586) Cam switches: flush mounting      | <a href="ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03801020Z2018_05.pdf">ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03801020Z2018_05.pdf</a>                           |
| Display flip catalog page.                                   | <a href="http://ecat.moeller.net/flip-cat/?edition=K115A&amp;startpage=125">http://ecat.moeller.net/flip-cat/?edition=K115A&amp;startpage=125</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="ftp://ftp.moeller.net/DOCUMENTATION/PDF/MZ008005ZU_Orderform_Customized_Switch.pdf">ftp://ftp.moeller.net/DOCUMENTATION/PDF/MZ008005ZU_Orderform_Customized_Switch.pdf</a>             |
| Ordering form for SOND switches and SOND front plates(DE_EN) | <a href="ftp://ftp.moeller.net/DOCUMENTATION/PDF/MZ008006ZU_Orderform_Customized_Switch.pdf">ftp://ftp.moeller.net/DOCUMENTATION/PDF/MZ008006ZU_Orderform_Customized_Switch.pdf</a>             |