



Contacts: 2, 32 A, 90 °, rear mounting, Basic switch

**Part no.** T3-1-15108/XZ  
**Article no.** 016424

## Delivery program

|  |       |                 |                               |
|--|-------|-----------------|-------------------------------|
| Product range                          |       |                 | Control switches              |
| Part group reference                   |       |                 | T3                            |
| Contacts                               |       |                 | 2                             |
| Design                                 |       |                 | rear mounting<br>Basic switch |
| Contact sequence                       |       |                 |                               |
| Switching angle                        |       | °               | 90                            |
| Front plate no.                        |       |                 | <br>FS 926                    |
| <b>Motor rating AC-23A, 50 - 60 Hz</b> |       |                 |                               |
| 400 V                                  | P     | kW              | 15                            |
| Rated uninterrupted current            | $I_u$ | A               | 32                            |
| Number of contact units                |       | contact unit(s) | 1                             |

## Technical data

### General

|   |           |      |   |
|---|-----------|------|---|
| 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   |
| Protection against direct contact when actuated from front (EN 50274) |           |      | Finger and back-of-hand proof   |

### 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 <sub>q</sub> | kA                | 1     |
| <b>Switching capacity</b>   |                |                   |       |
| cos φ rated making capacity as per IEC 60947-3                          |                | A                 | 320   |
| Rated breaking capacity cos φ 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 <sub>e</sub>                         |                | W                 | 1.1   |
| Current heat loss per auxiliary circuit at I <sub>e</sub> (AC-15/230 V) |                | CO                | 1.1   |
| 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                | 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 <sub>e</sub> | A                 | 23.7  |
| 230 V star-delta  | I <sub>e</sub> | A                 | 32    |
| 400V 415 V  | I <sub>e</sub> | 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   | 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    |
| <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   |
| 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 fault in 100000 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                               |
| Max. tightening torque              |  | Nm              | 1.6                              |

### Technical safety parameters:

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

### Rating data for approved types

|                   |  |  |    |
|-------------------|--|--|----|
| Terminal capacity |  |  |    |
| Terminal screw    |  |  | M4 |

## Design verification as per IEC/EN 61439

|  |  |    |     |
|--|--|----|-----|
| Technical data for design verification |  |    |     |
| Operating ambient temperature min.     |  | °C | -25 |
| Operating ambient temperature max.     |  | °C | 50  |

## Technical data ETIM 6.0

|  |  |    |           |
|--|--|----|-----------|
| Low-voltage industrial components (EG000017) / Switch disconnecter (EC000216)  |  |    |           |
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnecter (ecl@ss8.1-27-37-14-03 [AKF060010]) |  |    |           |
| Version as main switch   |  |    | No        |
| Version as maintenance-/service switch   |  |    | No        |
| Version as safety switch   |  |    | No        |
| Version as emergency stop installation   |  |    | No        |
| Version as reversing switch  |  |    | No        |
| Max. rated operation voltage U <sub>e</sub> AC   |  | V  | 690       |
| Rated operating voltage  |  | V  | 690 - 690 |
| Rated permanent current I <sub>u</sub>   |  | A  | 32        |
| Rated permanent current at AC-21, 400 V  |  | A  | 32        |
| Rated operation power at AC-3, 400 V   |  | kW | 11        |
| Rated short-time withstand current I <sub>cw</sub>   |  | kA | 0.65      |
| Rated operation power at AC-23, 400 V  |  | kW | 15        |
| Switching power at 400 V   |  | kW | 15        |

|   |    |  |
|---|----|--|
| Conditioned rated short-circuit current Iq              | kA | 1  |
| Number of poles   |    | 2  |
| Number of auxiliary contacts as normally closed contact |    | 0  |
| Number of auxiliary contacts as normally open contact   |    | 0  |
| Number of auxiliary contacts as change-over contact     |    | 0  |
| Motor drive optional                                    |    | No                                       |
| Motor drive integrated                                  |    | No                                       |
| Voltage release optional                                |    | No                                       |
| Device construction                                     |    | Built-in device fixed built-in technique |
| Suitable for ground mounting                            |    | Yes                                      |
| Suitable for front mounting 4-hole                      |    | No                                       |
| Suitable for front mounting center                      |    | No                                       |
| Suitable for distribution board installation            |    | Yes                                      |
| Suitable for intermediate mounting                      |    | Yes                                      |
| Colour control element                                  |    | Black                                    |
| Type of control element                                 |    | Toggle                                   |
| Interlockable   |    | No                                       |
| Type of electrical connection of main circuit           |    | Screw connection                         |
| Degree of protection (IP), front side                   |    | IP00                                     |

## Additional product information (links)

### IL03801006Z (AWA1150-1686) Cam switches: service distribution board

IL03801006Z (AWA1150-1686) Cam switches: service distribution board [ftp://ftp.moeller.net/DOCUMENTATION/AWA\\_INSTRUCTIONS/IL03801006Z2016\\_09.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03801006Z2016_09.pdf)

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