# DATASHEET - T5-4-3/E

**Star-delta switches, T5, 100 A, flush mounting, 4 contact unit(s), Contacts: 8, 60 °, maintained, With 0 (Off) position, 0-Y-D, Design number 3**

**Part no.** **T5-4-3/E**
**096062**

| | |
|---|---|
| Product name | Eaton Moeller® series T5 Insulated enclosure |
| Part no. | T5-4-3/E |
| EAN | 4015080960621 |
| Product Length/Depth | 141 millimetre |
| Product height | 88 millimetre |
| Product width | 88 millimetre |
| Product weight | 0.725 kilogram |
| Certifications | IEC/EN 60947-3<br>IEC/EN 60947<br>IEC/EN 60204<br>VDE 0660 |
| Product Tradename | T5 |
| Product Type | Insulated enclosure |
| Product Sub Type | None |
| Catalog Notes | Rated Short-time Withstand Current (Icw) for a time of 1 second |
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| Enclosure material | Plastic |
| Fitted with: | Black thumb grip and front plate<br>0 (off) position |
| Inscription | 0-Y-D |
| Number of poles | 3 |
| | |
| Degree of protection (front side) | IP65<br>NEMA 12 |
| Lifespan, mechanical | 500,000 Operations |
| Model | Star-delta switch |
| Mounting method | Flush mounting |
| Mounting position | As required |
| Number of contact units | 4 |
| Operating frequency | 1200 Operations/h |
| Overvoltage category | III |
| Pollution degree | 3 |
| Rated impulse withstand voltage (Uimp) | 6000 V AC |
| Safe isolation | 440 V AC, Between the contacts, According to EN 61140 |
| Safety parameter (EN ISO 13849-1) | B10d values as per EN ISO 13849-1, table C.1 |
| Shock resistance | 15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms |
| Suitable for | Front mounting |
| Switching angle | 60 ° |
| Type | Star-delta switch |
| | |
| Ambient operating temperature - min | -25 °C |
| Ambient operating temperature - max | 50 °C |
| Ambient operating temperature (enclosed) - min | -25 °C |
| Ambient operating temperature (enclosed) - max | 40 °C |
| Climatic proofing | Damp heat, constant, to IEC 60068-2-78<br>Damp heat, cyclic, to IEC 60068-2-30 |
| | |
| Terminal capacity (flexible with ferrule) | 1 x (1 - 25) $mm^2$, ferrules to DIN 46228<br>2 x (1.5 - 10) $mm^2$, ferrule to DIN 46228 |
| Terminal capacity (solid/stranded) | 1 x (2.5 - 35) $mm^2$ |

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| | 2 x (2.5 - 16) $mm^2$ |
| Screw size | M6, Terminal screw |
| Tightening torque | 4 Nm, Screw terminals |
| | |
| Rated breaking capacity at 220/230 V (cos phi to IEC 60947-3) | 760 A |
| Rated breaking capacity at 400/415 V (cos phi to IEC 60947-3) | 740 A |
| Rated breaking capacity at 500 V (cos phi to IEC 60947-3) | 590 A |
| Rated breaking capacity at 660/690 V (cos phi to IEC 60947-3) | 420 A |
| Rated operational current (Ie) | 76.2 A at AC-3, 500 V star-delta<br>100 A at AC-3, 230 V star-delta<br>29.4 A at AC-3, 690 V star-delta<br>95.3 A at AC-3, 400 V star-delta |
| Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V | 71 A |
| Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V | 55 A |
| Rated operational current (Ie) at AC-3, 500 V | 44 A |
| Rated operational current (Ie) at AC-3, 660 V, 690 V | 17 A |
| Rated operational current (Ie) at AC-21, 440 V | 100 A |
| Rated operational current (Ie) at AC-23A, 230 V | 100 A |
| Rated operational current (Ie) at AC-23A, 400 V, 415 V | 100 A |
| Rated operational current (Ie) at AC-23A, 500 V | 55 A |
| Rated operational current (Ie) at AC-23A, 690 V | 32 A |
| Rated operational current (Ie) at DC-1, load-break switches l/r = 1 ms | 80 A |
| Rated operational power at AC-3, 380/400 V, 50 Hz | 45 kW |
| Rated operational power at AC-3, 415 V, 50 Hz | 30 kW |
| Rated operational power at AC-3, 690 V, 50 Hz | 15 kW |
| Rated operational power at AC-23A, 220/230 V, 50 Hz | 30 kW |
| Rated operational power at AC-23A, 400 V, 50 Hz | 55 kW |
| Rated operational power at AC-23A, 500 V, 50 Hz | 37 kW |
| Rated operational power at AC-23A, 690 V, 50 Hz | 30 kW |
| Rated operational power star-delta at 220/230 V, 50 Hz | 30 kW |
| Rated operational power star-delta at 380/400 V, 50 Hz | 45 kW |
| Rated operational power star-delta at 500 V, 50 Hz | 45 kW |
| Rated operational power star-delta at 690 V, 50 Hz | 22 kW |
| Rated operational voltage (Ue) at AC - max | 600 V |
| Rated uninterrupted current (Iu) | 100 A |
| Uninterrupted current | Rated uninterrupted current Iu is specified for max. cross-section. |
| | |
| Rated conditional short-circuit current (Iq) | 2 kA |
| Rated short-time withstand current (Icw) | 1,7 kA, Contacts, 1 second |
| Short-circuit protection rating | 100 A gG/gL, Fuse, Contacts |
| | |
| Load rating | 2 x I# (with intermittent operation class 12, 25 % duty factor)<br>1.3 x I# (with intermittent operation class 12, 60 % duty factor)<br>1.6 x I# (with intermittent operation class 12, 40 % duty factor) |
| Switching capacity (main contacts, general use) | 65 A, Rated uninterrupted current max. (UL/CSA) |
| Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3) | 950 A |
| Voltage per contact pair in series | 60 V |
| | |
| Control circuit reliability | 1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA) |
| Number of auxiliary contacts (change-over contacts) | 0 |
| Number of auxiliary contacts (normally closed contacts) | 0 |
| Number of auxiliary contacts (normally open contacts) | 0 |
| Number of contacts | 8 |
| | |
| Actuator function | Maintained<br>With 0 (Off) position |
| Actuator type | Short thumb-grip |

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| Equipment heat dissipation, current-dependent Pvid | | 0 W |
| Heat dissipation capacity Pdiss | | 0 W |
| Heat dissipation per pole, current-dependent Pvid | | 7.5 W |
| Rated operational current for specified heat dissipation (In) | | 100 A |
| Static heat dissipation, non-current-dependent Pvs | | 0 W |
| 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 Resist. of insul. mat. to abnormal heat/fire by internal elect. 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. |
| 10.9.2 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 8.0

Low-voltage industrial components (EG000017) / Off-load switch (EC001105)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Changeover switch (ecl@ss10.0.1-27-37-14-05 [AKF062013])

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|---|---|---|
| Model | | Star-delta switch |
| Number of poles | | 3 |
| With zero (off) position | | Yes |
| With retraction in 0-position | | No |
| Rated permanent current Iu | A | 100 |
| Rated operation current Ie at AC-3, 400 V | A | 55 |
| Rated operation power at AC-3, 400 V | kW | 45 |
| Degree of protection (IP), front side | | IP65 |
| Degree of protection (NEMA), front side | | 12 |
| 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 |
| Suitable for floor mounting | | No |
| Suitable for front mounting | | Yes |
| Suitable for distribution board installation | | No |
| Suitable for intermediate mounting | | No |
| Complete device in housing | | No |
| Material housing | | Plastic |
| Type of control element | | Short thumb-grip |
| Type of electrical connection of main circuit | | Screw connection |

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