PRODUCT-DETAILS

# TAE75-30-00RT 17-32V DC

# TAE75-30-00RT 17-32V DC Contactor



## General Information

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|---|---|
| Extended Product Type | TAE75-30-00RT 17-32V DC |
| Product ID | 1SBL419060R5100 |
| EAN | 3471522244819 |
| Catalog Description | TAE75-30-00RT 17-32V DC Contactor |
| Long Description | TAE75 contactors are mainly used for controlling 3-phase motors and generally for controlling power circuits up to 690 V AC / 1000 V AC or 220 V DC. The contactors can also be used for many other applications such as isolation, capacitor switching, lighting. The TAE..RT contactors are the Ring Tongue terminal version of the TAE... range. The TAE... series 1-stack 3-pole contactors are of the block type design. - Main poles and auxiliary contact blocks: 3 main poles, front and side-mounted add-on auxiliary contact blocks - Control circuit: DC operated with standard double-winding DC coils (with add-on factory-mounted lagging contact for insertion of the"holding" winding). TAE... contactors offer a large coil voltage range - Accessories: a wide range of accessories is available. |

## Ordering

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| Minimum Order Quantity | 1 piece |
| Customs Tariff Number | 85364900 |

## Popular Downloads

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|---|---|
| Data Sheet, Technical Information | 1SNC001003C0202 |
| Instructions and Manuals | FPTC407767P0002 |

## Dimensions

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| Product Net Width | 82 mm |
| Product Net Depth / Length | 108 mm |
| Product Net Height | 110 mm |
| Product Net Weight | 1.2 kg |

## Technical

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|---|---|
| Number of Main Contacts NO | 3 |
| Number of Main Contacts NC | 0 |
| Number of Auxiliary Contacts NO | 0 |
| Number of Auxiliary Contacts NC | 0 |
| Rated Operational Voltage | Main Circuit 1000 V |
| Rated Frequency (f) | Main Circuit 50 / 60 Hz |
| Conventional Free-air Thermal Current ($I_{th}$) | acc. to IEC 60947-4-1, Open Contactors Θ = 40 °C 125 A |
| Rated Operational Current AC-1 ($I_e$) | (690 V) 40 °C 125 A<br>(690 V) 55 °C 105 A<br>(690 V) 70 °C 85 A |
| Rated Operational Current AC-3 ($I_e$) | (415 V) 55 °C 72 A<br>(440 V) 55 °C 70 A<br>(500 V) 55 °C 65 A<br>(690 V) 55 °C 46 A<br>(1000 V) 55 °C 28 A<br>(380 / 400 V) 55 °C 75 A<br>(220 / 230 / 240 V) 55 °C 75 |
| Rated Operational Power AC-3 ($P_e$) | (415 V) 40 kW<br>(440 V) 40 kW<br>(500 V) 45 kW<br>(690 V) 40 kW<br>(1000 V) 37 kW<br>(380 / 400 V) 37 kW<br>(220 / 230 / 240 V) 22 kW |
| Rated Breaking Capacity AC-3 | 8 x Ie AC-3 |
| Rated Making Capacity AC-3 | 10 x Ie AC-3 |
| Short-Circuit Protective Devices | gG Type Fuses 160 A |
| Rated Short-time Withstand Current Low Voltage ($I_{cw}$) | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 650 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 135 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 250 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1000 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 370 A |
| Maximum Breaking Capacity | cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 440 V 1300 A<br>cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 690 V 630 A |
| Maximum Electrical Switching Frequency | (AC-1) 300 cycles per hour<br>(AC-2 / AC-4) 150 cycles per hour<br>(AC-3) 300 cycles per hour |
| Rated Insulation Voltage ($U_i$) | acc. to IEC 60947-4-1 1000 V<br>acc. to UL/CSA 600 V |
| Rated Impulse Withstand Voltage ($U_{imp}$) | 8 kV |
| Mechanical Durability | 5 million |
| Maximum Mechanical Switching Frequency | 3600 cycles per hour |

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|---|---|
| Rated Control Circuit Voltage ($U_c$) | DC Operation 17 ... 32 V |
| Coil Consumption | Holding DC (Umin / Umax) 1.7 / 6.5 W<br>Pull-in DC (Umin / Umax) 120 / 250 W |
| Operate Time | Between Coil De-energization and NC Contact Closing 8 ... 18 ms<br>Between Coil De-energization and NO Contact Opening 5 ... 15 ms<br>Between Coil Energization and NC Contact Opening 10 ... 27 ms<br>Between Coil Energization and NO Contact Closing 30 ... 30 ms |
| Mounting on DIN Rail | TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715<br>TH75-25 (75 x 25 mm Mounting Rail) acc. to IEC 60715 |
| Mounting by Screws (not supplied) | 2 x M6 screws placed diagonally |
| Connecting Capacity Auxiliary Circuit | Solid 1 ... 4 mm² |
| Degree of Protection | acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP10<br>acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP10 |
| Terminal Type | Ring-Tongue Terminals |

## Technical UL/CSA

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|---|---|
| General Use Rating UL/CSA | (600 V AC) 105 A |
| Horsepower Rating UL/CSA | (200 ... 208 V AC) Three Phase 25 hp<br>(220 ... 240 V AC) Three Phase 30 hp<br>(440 ... 480 V AC) Three Phase 60 hp<br>(550 ... 600 V AC) Three Phase 75 hp |

## Environmental

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| Ambient Air Temperature | Close to Contactor without Thermal O/L Relay -40 ... 55 °C<br>Close to Contactor without Thermal O/L Relay (Ucmin-Ucmax) according to IEC 60077 -40 ... +70 °C<br>Close to Contactor for Storage -60 ... +80 °C |
| Climatic Withstand | acc. to IEC 60068-2-30 and 60068-2-11 - UTE C 63-100 specification II |
| Maximum Operating Altitude Permissible | Without Derating 3000 m |
| Resistance to Shock acc. to IEC 60068-2-27 | Closed, Shock Direction: B1 10 g<br>Open, Shock Direction: B1 5 g<br>Shock Direction: A 20 g<br>Shock Direction: B2 15 g<br>Shock Direction: C1 20 g<br>Shock Direction: C2 20 g |

## Material Compliance

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|---|---|
| Conflict Minerals Reporting Template (CMRT) | 9AKK108467A5658 |
| REACH Declaration | 2CMT2021-006202 |
| RoHS Information | 2CMT2021-006277 |
| RoHS Status | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |
| WEEE B2C / B2B | Business To Business |
| WEEE Category | 5. Small Equipment (No External Dimension More Than 50 cm) |

## Certificates and Declarations

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|---|---|
| CB Certificate | CB_FR_701506-A1 |
| CQC Certificate | CQC2018010304129269 |
| Declaration of Conformity - CCC | 2020980304001621 |
| Declaration of Conformity - CE | 1SBD250806U1000 |
| Declaration of Conformity | 1SBD250823U1000 |

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| GOST Certificate | GOST POCCFRME77B07175 |

## Container Information

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| Package Level 1 Units | 1 piece |
| Package Level 1 Width | 140 mm |
| Package Level 1 Depth / Length | 146 mm |
| Package Level 1 Height | 96 mm |
| Package Level 1 Gross Weight | 1.2 kg |
| Package Level 1 EAN | 3471522244819 |
| Package Level 2 Units | box 20 piece |
| Package Level 2 Gross Weight | 24 kg |

## Classifications

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|---|---|
| Object Classification Code | Q |
| ETIM 7 | EC000066 - Power contactor, AC switching |
| ETIM 8 | EC000066 - Power contactor, AC switching |
| ETIM 9 | EC000066 - Power contactor, AC switching |
| eClass | V11.0 : 27371003 |
| UNSPSC | 39121529 |

## Categories

Low Voltage Products and Systems → Control Products → Contactors → Block Contactors → TAL and TAE Contactors → TAE75



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