



Representative Image

## Alternate Catalog No. TBC7-30-01-68 Catalog No. GJL1313061R6018

**Description:** TBC7-30-01-68 Mini Contactor 140-260VDC

**UPC No** 4013614321603

**Home > Contactors & Starters > UL Listed IEC Contactors > AF Contactors**

The TBC7-30-01 mini contactor is a compact 3 pole contactor with 1 auxiliary contact and screw terminals. They are ideally suited for applications where reliability is a must and space is at a premium. Mini contactors are used in residential buildings, commercial buildings and industrial applications for the control of single or three-phase loads up to 5.5 kW (AC-3) and 20 A / 690 V (AC-1) or switching of control signals. Further features are the noiseless and hum-free coil, a switch position indication and the integrated possibility for rail or wall mounting.

### Descriptors

|          |               |
|----------|---------------|
| Category | AF Contactors |
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### Specifications

|                                                    |                                                                                                                                                        |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Type                                       | Mini Contactors (B6, B7)                                                                                                                               |
| General Use Rating UL/CSA                          | (600 V AC) 16 A                                                                                                                                        |
| Object Classification Code                         | Q                                                                                                                                                      |
| Terminal Type                                      | Screw Terminals                                                                                                                                        |
| Rated Control Circuit Voltage                      | 200 V DC                                                                                                                                               |
| Number of Main Contacts NO                         | 3                                                                                                                                                      |
| Number of Main Contacts NC                         | 0                                                                                                                                                      |
| Maximum Operating Voltage UL/CSA                   | Main Circuit 600 V AC                                                                                                                                  |
| Resistance to Vibrations acc. to IEC 60068-2-6     | 5g / 5 ... 150 Hz                                                                                                                                      |
| Number of Auxiliary Contacts NO                    | 0                                                                                                                                                      |
| RoHS Status                                        | Following EU Directive 2011/65/EU                                                                                                                      |
| Reference Ambient Air Temperature                  | Operation -30 ... +70 °C<br>Storage -40 ... +85 °C                                                                                                     |
| Rated Operational Voltage                          | Auxiliary Circuit 12 ... 240 V DC<br>Auxiliary Circuit 12 ... 500 V AC / DC<br>Main Circuit 12 ... 690 V AC / DC<br>Main Circuit 690 V AC              |
| Resistance to Shock acc. to IEC 60068-2-27         | 11 ms Pulse 15g                                                                                                                                        |
| Number of Auxiliary Contacts NC                    | 1                                                                                                                                                      |
| Maximum Operating Altitude Permissible             | 2000 m                                                                                                                                                 |
| Rated Operational Current AC-1                     | (220 / 240 V) 40 °C 20 A<br>(220 / 240 V) 55 °C 16 A<br>(380 / 440 V) 40 °C 20 A<br>(380 / 440 V) 55 °C 16 A<br>(690 V) 40 °C 6 A<br>(690 V) 55 °C 6 A |
| Standards                                          | IEC/EN 60947-1<br>IEC/EN 60947-4-1<br>IEC/EN 60947-5-1                                                                                                 |
| Rated Operational Power AC-3                       | (220 / 230 / 240 V) 3 kW<br>(400 V) 5.5 kW<br>(400 V) Three Phase 5.5 kW<br>(440 V) 5.5 kW<br>(500 V) 5.5 kW<br>(690 V) 3 kW                           |
| Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1 | 8 x Ie / AC-3                                                                                                                                          |

**by ABB**

## Specifications

|                                                  |                                                                                                                                                                                                                 |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Horsepower Rating UL/CSA                         | (208 V AC) Three Phase 1 hp<br>(220 ... 240 V AC) Single Phase 1.5 hp<br>(220 ... 240 V AC) Three Phase 3 hp<br>(440 ... 480 V AC) Three Phase 5 hp<br>(550 ... 600 V AC) Three Phase 5 hp                      |
| Conventional Free-air Thermal Current            | Main Circuit 20 A                                                                                                                                                                                               |
| Rated Operational Current AC-15                  | (120 V) 4 A<br>(220 / 240 V) 4 A<br>(24 V) 4 A<br>(380 / 400 V) 3 A<br>(500 V) 2 A                                                                                                                              |
| Rated Frequency                                  | Control Circuit DC<br>Main Circuit 60 Hz<br>Main Circuit 50Hz<br>Main Circuit DC                                                                                                                                |
| Rated Short-time Withstand Current               | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 96 A                                                                                                                                                 |
| Rated Operational Current AC-3                   | (220 / 230 / 240 V) 55 °C 11.3 A<br>(380 / 400 V) 55 °C 11.5 A<br>(440 V) 55 °C 10.1 A<br>(500 V) 55 °C 9.2 A<br>(690 V) 55 °C 3.8 A                                                                            |
| Rated Making Capacity AC-3 acc. to IEC 60947-4-1 | 10 x I <sub>e</sub> / AC-3                                                                                                                                                                                      |
| Maximum Electrical Switching Frequency           | AC-1 300 cycles per hour<br>AC-15 600 cycles per hour<br>AC-3 600 cycles per hour<br>DC-1 600 cycles per hour<br>DC-13 600 cycles per hour<br>DC-3 600 cycles per hour                                          |
| Short-Circuit Protective Devices                 | gG Type Fuses Type 1&2 25 A                                                                                                                                                                                     |
| Rated Insulation Voltage                         | 690 V<br>acc. to UL/CSA 600 V                                                                                                                                                                                   |
| Mechanical Durability                            | 10000000 cycle                                                                                                                                                                                                  |
| Coil Operating Limits                            | (acc. to IEC 60947-4-1) for DC supply U <sub>c</sub> Min. ... U <sub>c</sub> Max. (at $\theta \leq 55$ °C)                                                                                                      |
| Secondary Rated Impulse Withstand Voltage        | Auxiliary Circuit 6 kV<br>Main Circuit 6 kV                                                                                                                                                                     |
| Connecting Capacity Main Circuit                 | Flexible with Ferrule 1/2x 1 ... 2.5 square mm<br>Flexible with Insulated Ferrule 1/2x 1 ... 2.5 square mm<br>Flexible 1/2x 1 ... 2.5 square mm<br>Rigid 1/2x 1 ... 4 square mm                                 |
| Rated Operational Current DC-13                  | (110 V) 0.7 A<br>(220 / 240 V) 0.4 A<br>(24 V) 2.5 A                                                                                                                                                            |
| Connecting Capacity Control Circuit              | Flexible with Ferrule 1/2x 1 ... 2.5 square mm<br>Flexible with Insulated Ferrule 1/2x 1 ... 2.5 square mm<br>Flexible 1/2x 1 ... 2.5 square mm<br>Rigid 1/2x 1 ... 4 square mm                                 |
| Coil Consumption                                 | Average Holding Value DC 5 W<br>Average Pull-in Value DC 5 W                                                                                                                                                    |
| Degree of Protection                             | Auxiliary Circuit Terminals IP20<br>Control Circuit Terminals IP20<br>Main Circuit Terminals IP20                                                                                                               |
| Connecting Capacity Auxiliary Circuit            | Flexible with Ferrule 1/2x 1 ... 2.5 square millimetre<br>Flexible with Insulated Ferrule 1/2x 1 ... 2.5 square millimetre<br>Flexible 1/2x 1 ... 2.5 square millimetre<br>Rigid 1/2x 1 ... 4 square millimetre |
| Mounting on DIN Rail                             | TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715<br>TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715                                                                                                  |
| Screw Terminal Type                              | Screw Terminals                                                                                                                                                                                                 |
| Wire Stripping Length                            | Auxiliary Circuit 9 mm<br>Main Circuit 9 mm                                                                                                                                                                     |

## Classifications

|          |                                           |
|----------|-------------------------------------------|
| ETIM 4   | EC000066 - Magnet contactor, AC-switching |
| ETIM 6.0 | EC000066 - Power contactor, AC switching  |
| ETIM 7   | EC000066 - Power contactor, AC switching  |
| ETIM 5.0 | EC000066 - Magnet contactor, AC-switching |

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| <b>Classifications</b> |  |
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| eClass | 7.0 27371003 |
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| <b>Dimensions</b> |  |
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|                            |         |
|----------------------------|---------|
| Product Net Weight         | 0.185kg |
| Product Net Depth / Length | 57.5 mm |
| Product Net Width          | 52.5 mm |
| Product Net Height         | 46.5 mm |

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| <b>Package Information</b> |  |
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|--------------------------------|---------------|
| Package Level 1 Width          | 115 mm        |
| Package Level 1 Height         | 54 mm         |
| Package Level 1 Depth / Length | 280 mm        |
| Package Level 1 EAN            | 4013614418853 |
| Package Level 1 Units          | 10 piece      |
| Package Level 1 Gross Weight   | 1.92 kg       |

|                 |  |
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| <b>Ordering</b> |  |
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| Minimum Order Quantity | 1        |
| Customs Tariff Number  | 85365080 |