

TGJ1 Series Contactor Relay

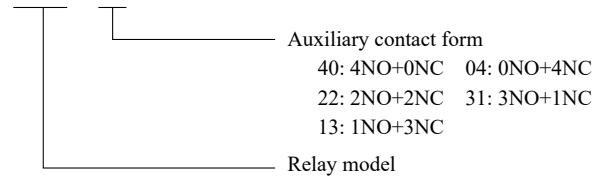


1 Overview

TGJ1 series contactor relays are mainly used in AC 50Hz or 60Hz control circuits with rated working voltage up to 660V for controlling various electromagnetic coils and for amplification and transfer of electrical signals. This relay is a necessary low-voltage electrical appliance for automatic and remote control.

2 Type Designation

TGJ1 - 40



TGJ1 contactor type relay selection table

| Contact | | Item description |
|-------------|--------------|------------------|
| Normal open | Normal close | |
| 4 | 0 | TGJ1-40* |
| 0 | 4 | TGJ1-04* |
| 1 | 3 | TGJ1-13* |
| 3 | 1 | TGJ1-31* |
| 2 | 2 | TGJ1-22* |

3 Technical Parameters

| Main technical parameters | |
|---------------------------------------|---|
| Rated insulation voltage U_i V | 690 |
| Free air resistive current I_{th} A | 10 |
| Rated working current I_e A | AC-15 380V: 0.95 |
| | DC-13 220V: 0.15 |
| Contact combination | 2NO+2NC、3NO+1NC、4NO+0NC、1NO+3NC、0NO+4NC |

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Table, continued

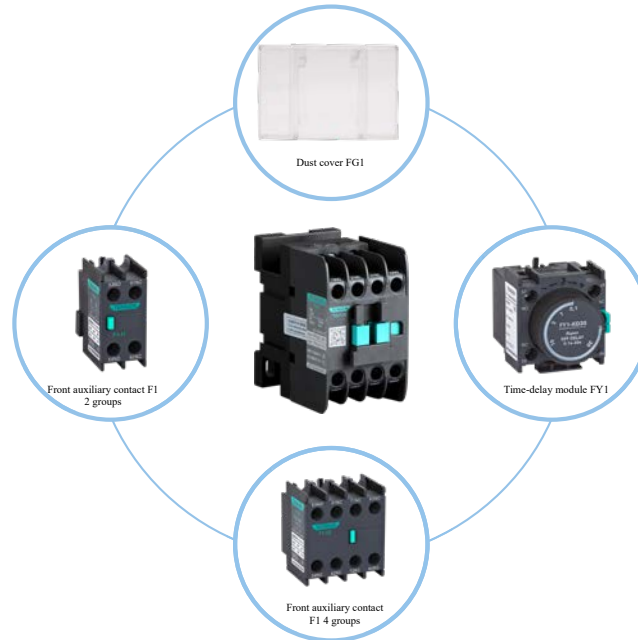
| | | | | | | | | | |
|----------------------------------|--------------|------------------------------|----|----|-----|-----|-----|-----|-----|
| Electrical life | 10,000 times | 110 | | | | | | | |
| Mechanical life | 10,000 times | 1600 | | | | | | | |
| Operating frequency | Times/h | 1200 | | | | | | | |
| Rated control circuit voltage Us | 50Hz | 24、36、48、110、220、380、400、415 | | | | | | | |
| | 50/60Hz | 24、36、48、110、220、380、400、415 | | | | | | | |
| Pull-in voltage range | | AC 85%~110% Us | | | | | | | |
| Release voltage range | | AC 20%~75% Us | | | | | | | |
| Certificate | | CE、CCC | | | | | | | |
| Coil voltage specification table | | | | | | | | | |
| Coil voltage | V | 24 | 36 | 48 | 110 | 220 | 380 | 400 | 415 |
| Coil voltage code | 50Hz | B5 | C5 | E5 | F5 | M5 | Q5 | V5 | N5 |
| | 50/60Hz | B7 | C7 | E7 | F7 | M7 | Q7 | V7 | N7 |

4 Operating Conditions

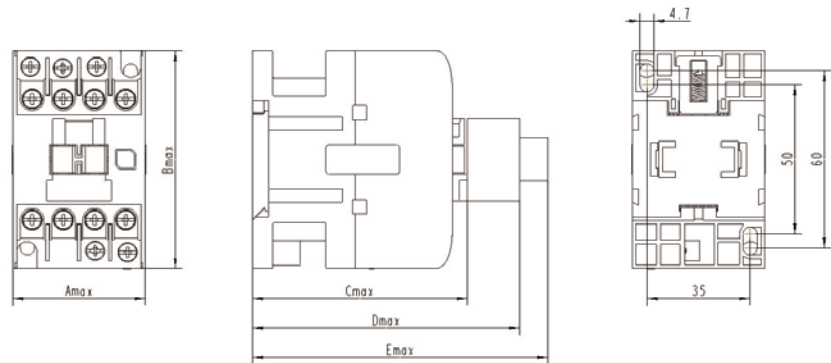
- 4.1 Ambient temperature: limit working temperature: $-35^{\circ}\text{C} \sim +70^{\circ}\text{C}$; normal working temperature: $-5^{\circ}\text{C} \sim +40^{\circ}\text{C}$; the average value within 24 hours does not exceed $+35^{\circ}\text{C}$;
- 4.2 Installation conditions: The inclination between the mounting surface and the vertical surface is not more than $\pm 22.5^{\circ}\text{C}$, and the installation category is Class III;
- 4.3 Pollution degree: 3;
- 4.4 Altitude: No more than 2,000 meters;
- 4.5 Atmospheric conditions: The relative humidity of the atmospheric air does not exceed 50% at $+40^{\circ}\text{C}$. Higher relative humidity is allowed at lower temperatures. The monthly mean minimum temperature of the wettest month does not exceed $+25^{\circ}\text{C}$, the monthly mean maximum relative humidity of that month does not exceed 90%, and the condensation occurred on the product due to temperature changes shall be considered;
- 4.6 The product should be installed and used in a place where there is no obvious shaking, impact and vibration.

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5 Accessory Installation Diagram



6 Outline and Installation Dimensions



Unit: mm

| Spec. & Model | A_{max} | B_{max} | C_{max} | D_{max} | E_{max} | a | b | c | d |
|---------------|-----------|-----------|-----------|-----------|-----------|----|-----------|---|---|
| TGJ1 | 45 | 74 | 73 | 111 | 131 | 35 | 50.6~60.2 | - | - |