



## Capacitor Duty Contactors

# Capacitor Duty Contactors

## Characteristics, Specifications & Dimensions

### Why special Capacitor Duty Contactor



TC1-D12K02XX

#### Product Range

415V AC rating 10kVAR thru 60 kVAR, available in eight ratings, conforming to IEC - 60947, IS 13947-4-1

#### Benefits

- Conforms to utilization category AC6b as per IS 13947-4-1/IEC 60947-4-1
- Saves cost of expensive replacements
- High electrical life
- Reduced watt loss during 'ON' condition, saves energy
- High Safety
- No risk of dangerous voltage
- Switching of Capacitor bank in parallel without de-rating
- Less maintenance & down-time



### Specifications

| KVAR* rating at 50/60 Hz<br>$\theta < 55^{\circ}\text{C}$ (3) |              |              | Instantaneous<br>Auxiliary Contacts |        | Maximum<br>Operating Rate | Electrical Life<br>at rated load | Catalog Number               |
|---|--------------|--------------|-------------------------------------|--------|---------------------------|----------------------------------|------------------------------|
| 200V<br>240V  | 400V<br>440V | 660V<br>690V | NO                                  | NC     | Operations hour           | Operations                       |                              |
| 5.5   | 10.0         |              | 1                                   | 1      | 240                       | 200000                           | TC1-D10K11XX<br>TC1-D10K02XX |
| 6.7   | 12.5         | 18           | 1<br>0                              | 1<br>2 | 240                       | 200000                           | TC1-D12K11XX<br>TC1-D12K02XX |
| 8.5   | 16.7         | 25           | 1<br>0                              | 1<br>2 | 240                       | 200000                           | TC1-D16K11XX<br>TC1-D16K02XX |
| 10.0  | 20.0         | 30           | 1<br>0                              | 1<br>2 | 240                       | 100000                           | TC1-D20K11XX<br>TC1-D20K02XX |
| 15.0  | 25.0         | 36           | 1<br>0                              | 1<br>2 | 240                       | 100000                           | TC1-D25K11XX<br>TC1-D25K02XX |
| 20.0  | 33.3         | 48           | 1                                   | 2      | 240                       | 100000                           | TC1-D33K12XX                 |
| 25.0  | 40.0         | 58           | 1                                   | 2      | 100                       | 100000                           | TC1-D40K12XX                 |
| 40.0  | 60.0         | 92           | 1                                   | 2      | 100                       | 100000                           | TC1-D60K12XX                 |



TC1-D20K11XX

#### Notes

- (1) Additional Aux. Contact block (Side mounted) type TA8DN11 or TA8DN20 can be mounted, if required
- (2) Contactor Type TC1D12K - TC1D25K : Suitable type clip-on mountin into 35mm DIN rail  
Contactor Type TC1D33K-TC1D60K : Suitable type clip-on mounting into 35mm & 75mm DIN rail
- (3) Average temperature over a 24-hour period, in accordance with IEC 70 and 831

### Replace XX with voltage code from table - 1

Table-1 : XX-AC Coil Voltages

| Volts AC | 24 | 48 | 110 | 120 | 208 | 220 | 230 | 240 | 277 | 380 | 400 | 415 | 440 | 480 | 575 | 600 |
|----------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 50 Hz    | B5 | E5 | F5  |     |     | M5  | P5  | U5  |     | Q5  | V5  | N5  | R5  |     |     |     |
| 60 Hz    | B6 | E6 | F6  | G6  | L6  | M6  |     | U6  | W6  | Q6  |     |     | R6  | T6  | S6  | X6  |
| 50/60 Hz | B7 | E7 | F7  | G7  |     | M7  | P7  | U7  |     | Q7  | V7  | N7  | R7  |     |     |     |

TC1-D10K ,D12K,D16K,D20K,D25K

TC1-D33K, D40K, D60K



TC1-D60K12XX

