

Catalogue No: **DTC2540240D**  
**DIN CONTACTOR 25A 4NO 240V AC/DC COIL**

Power Distribution and Protection > Circuit Breakers > Miniature Circuit Breakers and Earth Leakage Protection (RCDs and RCBOs) > DIN-T Contactors > DIN-T DTC..D Contactors



Representative Photo Only  
 (actual product may vary based on configuration selections)

DIN Contactor 25A, 4NO, 240V AC/DC coil

- Standards IEC 60947-1, IEC 60947-4-1 and IEC 61095
- 16, 20, 25, 40 & 63A
- Silent operated, hum free AC/DC coils
- Integrated surge protection
- Low power consumption
- Indicator position flag Red/Green
- Space saving, no spacer required 16A & 20A models
- 9mm Spacer required 25, 40 & 63A models if duty time 1hour and ambient >40°C
- Add on auxiliary contact 2NO or 1NO/1NC
- DIN rail mount

**SPECIFICATIONS**

|  |                       |
|--|-----------------------|
| Product Series                                 | DIN-T                 |
| Component Type Power Distribution & Protection | Contactor             |
| Rated Frequency                                | DC, 50/60/400 Hz      |
| Coil Voltage, AC, Nom                          | 240 V AC              |
| Coil Voltage, DC, Nom                          | 240 V DC              |
| Contact Configuration                          | 4 NO                  |
| Ui, Rated Insulation Voltage, AC               | 500 V AC              |
| Rated Impulse Withstand Voltage                | ESB: 6 & EN: 4 / 6 kV |
| Ith, Thermal Current at 40°C                   | 25 A                  |
| Ue, Rated Operational Voltage, AC              | 400 V AC              |
| Ue, Rated Operational Voltage, DC              | 220 V DC              |
| Ie, Rated Operational Current, AC-1, 230V, 1Ø  | 25 A@230V 1Ø          |
| Ie, Rated Operational Current, AC-1, 240V      | 25 A@240V             |
| Ie, Rated Operational Current, AC-1, 230V, 3Ø  | 25 A@230V 3Ø          |
| Ie, Rated Operational Current, AC-1, 400V, 3Ø  | 25 A@400V 3Ø          |
| Ie, Rated Operational Current, AC-3, 230V, 1Ø  | 9 A@230V 1Ø           |
| Ie, Rated Operational Current, AC-3, 230V, 3Ø  | 9 A@230V 3Ø           |
| Ie, Rated Operational Current, AC-3, 400V, 3Ø  | 9 A@400V 3Ø           |
| Ie, Rated Operational Current, AC-7a, 230V, 1Ø | 25 A@230V 1Ø          |
| Ie, Rated Operational Current, AC-7a, 400V, 3Ø | 25 A@400V 3Ø          |
| Ie, Rated Operational Current, AC-7b, 230V, 1Ø | 9 A@230V 1Ø           |
| Ie, Rated Operational Current, AC-7b, 230V, 3Ø | 9 A@230V 3Ø           |
| Ie, Rated Operational Current, AC-7b, 400V, 3Ø | 9 A@400V 3Ø           |
| Pe, Rated Operational Power, AC 1, 230V AC, 1Ø | 5.8 kW@230V 1Ø        |
| Pe, Rated Operational Power, AC 1, 230V AC, 3Ø | 10 kW@230V 3Ø         |
| Pe, Rated Operational Power, AC 1, 240V AC, 1Ø | 6 kW@240V 1Ø          |
| Pe, Rated Operational Power, AC 1, 400V AC, 3Ø | 17.3 kW@400V 3Ø       |
| Pe, Rated Operational Power, AC 3, 230V AC, 1Ø | 1.3 kW@230V 1Ø        |

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|   |  |
|---|--|
| Pe, Rated Operational Power, AC 3, 230V AC, 3Ø      | 2.3 kW@230V 3Ø   |
| Pe, Rated Operational Power, AC 3, 400V AC, 3Ø      | 4 kW@400V 3Ø   |
| kW Rating, AC-7a, 230V, 1Ø                          | 5.8 kW @230V 1Ø  |
| kW Rating, AC-7a, 230V, 3Ø                          | 10 kW @230V 3Ø   |
| kW Rating, AC-7a, 400V, 3Ø                          | 17.3 kW @400V 3Ø   |
| kW Rating, AC-7b, 230V, 1Ø                          | 1.3 kW @230V 1Ø  |
| kW Rating, AC-7b, 230V, 3Ø                          | 2.3 kW @230V 3Ø  |
| kW Rating, AC-7b, 400V, 3Ø                          | 4 kW @400V 3Ø  |
| Ie, Rated Operational Current, DC-1, 24V, 3Pole     | 24 A@24V 3Pole   |
| Ie, Rated Operational Current, DC-1, 48V, 3Pole     | 24 A@48V 3Pole   |
| Ie, Rated Operational Current, DC-1, 110V, 3Pole    | 24 A@110V 3Pole  |
| Ie, Rated Operational Current, DC-1, 220V, 3Pole    | 13 A@220V 3Pole  |
| Ie, Rated Operational Current, DC-3, 24V, 3 Pole    | 24 A@24V 3Pole   |
| Ie, Rated Operational Current, DC-3, 48V, 3 Pole    | 24 A@48V 3Pole   |
| Ie, Rated Operational Current, DC-3, 110V, 3 Pole   | 16 A@110V 3Pole  |
| Ie, Rated Operational Current, DC-3, 220V, 3 Pole   | 4 A@220V 3Pole   |
| Coil Operating Limits Range acc. to IEC/EN60947-4-1 | 0.85 ... 1.1 x Coil Voltage (at $\theta \leq 55^\circ\text{C}$ ) |
| Coil Pull In Consumption                            | 4 W  |
| Coil Pull In Consumption 50Hz                       | 4 VA   |
| Coil Pull In Consumption 60Hz                       | 4 VA   |
| Coil Holding Consumption                            | 4 W  |
| Coil Holding Consumption 50Hz                       | 4 VA   |
| Coil Holding Consumption 60Hz                       | 4 VA   |
| Motor FLC, 220-240V, 3Ø                             | 9.6 A  |
| Motor FLC, 440-480V, 3Ø                             | 7.6 A  |
| Cmax, Compensating Capacity per Phase               | 100 $\mu\text{F}$  |
| Power Loss Per Pole                                 | 2 W  |
| Wire / Conductor Size (Min)                         | 1 x 1.5mm <sup>2</sup> & 2 x 1.5mm <sup>2</sup> min              |
| Wire / Conductor Size (Max)                         | 1 x 10mm <sup>2</sup> & 2 x 4mm <sup>2</sup>                     |
| Tightening Torque (Main Circuit)                    | 1 Nm   |
| Wire / conductor size, control, min                 | 1 x 1mm <sup>2</sup> & 2 x 1mm <sup>2</sup>                      |
| Wire / conductor size, control, max                 | 1 x 4mm <sup>2</sup> & 2 x 2.5mm <sup>2</sup>                    |
| Tightening Torque (Control Circuit)                 | 0.9 Nm   |
| Vibration Rating IEC60068-2-6                       | 1g/3-150 Hz  |
| Shock (Half-Sine) Category                          | Category E   |
| Shock (Half-Sine) Rating IEC/EN 60068-2-27 (Ea)     | 15g/11ms   |
| Rated Making Capacity AC-3                          | 10 x Ie /AC-3  |
| Rated Breaking Capacity AC-3                        | 8 x Ie /AC-3   |
| Electrical Durability, AC-1/AC-7a                   | 130000 Cycles  |
| Electrical Durability, AC-3/AC-7b                   | 500000 Cycles  |
| Max. Electrical Switching Frequency, AC-1/AC-7a     | 300 Cycles/h   |
| Max. Electrical Switching Frequency, AC-3/AC-7b     | 600 Cycles/h   |
| Height  | 85 mm  |
| Width   | 36 mm  |
| Depth   | 58 mm  |
| Operating Temperature, Min                          | -25 °C min   |
| Operating Temperature, Max                          | 55 °C max  |
| Storage Temperature, Min                            | -40 °C min   |
| Storage Temperature, Max                            | 80 °C max  |
| Altitude, Operating, Max                            | 2000 m   |

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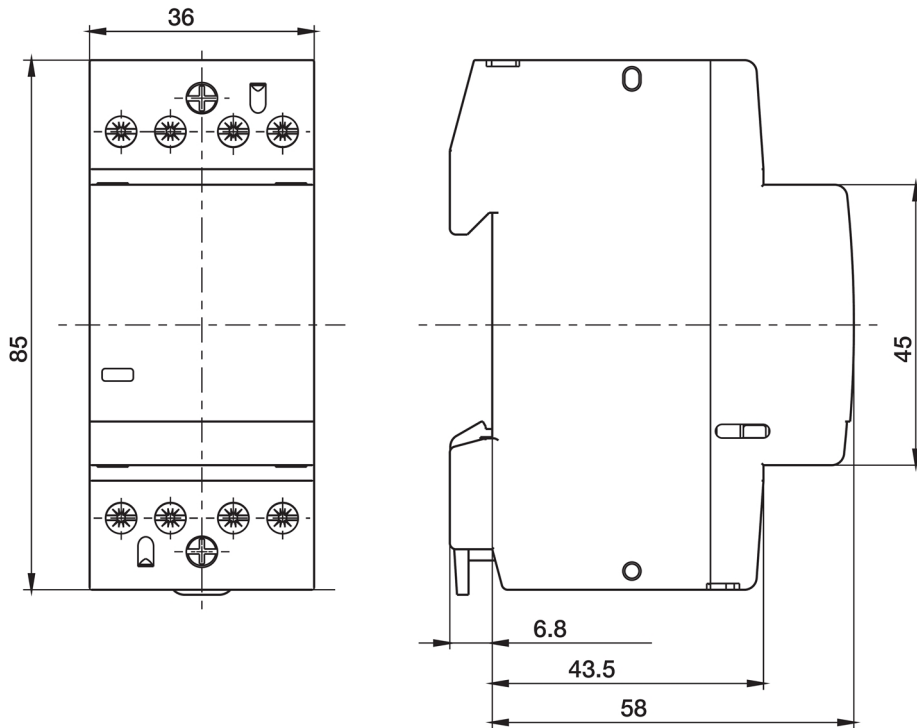
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|                       |                              |
|-----------------------|------------------------------|
| Mechanical Durability | 100000 Cycles                |
| Standards Compliance  | IEC 60947-1<br>IEC 60947-5-1 |

**REFERENCES**

|   |                                 |
|---|---------------------------------|
| IECEx Certificate                           | -                               |
| Supplier Declaration of Conformity:         | -                               |
| Installation Guide:                         | <a href="#">Lamp Load Table</a> |
| User Manual:                                | -                               |
| Manufacturer Datasheet:                     | -                               |
| Manufacturer Catalogue & Product Selection: | -                               |



Dimension Diagram

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| Lamp Load Table                                     |  | DTC16..D  | DTC20..D | DTC24..D | DTC40..D | DTC63..D |
|---|--|---|----------|----------|----------|----------|
| Rated Current (A)                                   |  | 16  | 20       | 25       | 40       | 63       |
| Permitted compensating capacity per phase Cmax (µF) |  | 45  | 75       | 100      | 350      | 500      |
| Lamp types  |  | Maximum load of the current paths during switching of electric lamps I <sub>e</sub> (A) |          |          |          |          |
| Incandescent and halogen lamps (230 V)              |  | 4   | 6        | 7        | 20       | 30       |
| Mixing lamps without ballast                        |  | 4   | 6        | 7        | 20       | 30       |
| Fluorescent lamps with conventional ballast         | Single lamp uncompensated              | 14  | 18       | 22       | 36       | 56       |
|   | Single lamp parallel compensated       | 2   | 3        | 3.5      | 10       | 15       |
|   | Series compensation, duo circuit       | 14  | 18       | 22       | 36       | 56       |
| Fluorescent lamps with electronic ballast or CFL    |  | 4   | 6        | 7        | 20       | 30       |
| LED lamps   |  | 4   | 6        | 7        | 20       | 30       |
| High pressure mercury-vapor lamps                   | Single lamp without compensation       | 7   | 9        | 11       | 18       | 28       |
|   | Single lamp with parallel compensation | 2   | 3        | 3.5      | 10       | 15       |
| Halogen metal-vapor lamps                           | Single lamp without compensation       | 7   | 9        | 11       | 18       | 28       |
|   | Single lamp with parallel compensation | 2   | 3        | 3.5      | 10       | 15       |
| High pressure sodium-vapor lamps                    | Single lamp without compensation       | 7   | 9        | 11       | 18       | 28       |
|   | Single lamp with parallel compensation | 2   | 3        | 3.5      | 10       | 15       |
| Low pressure sodium-vapor lamps                     | Single lamp without compensation       | 7   | 9        | 11       | 18       | 28       |
|   | Single lamp with parallel compensation | 2   | 3        | 3.5      | 10       | 15       |

### Technical Diagram