Catalogue No: **DTCBDC150C**

MCB DIN-T DC 6kA 1P 50A C CURVE

Power Distribution and Protection > Circuit Breakers > Miniature Circuit Breakers and Earth Leakage Protection (RCDs and RCBOs) > DIN-T Miniature Circuit Breakers > DIN-T DC Series > DIN-T DC 1 Pole C-Curve (5 - 10 In)




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

DIN-T DC MCB 6kA 1 Pole 50A C Curve

- Complies with AS/NZS 60898
- DIN-T DC MCBs feature 6kA short circuit rating
- C-Curve tripping characteristic
- Pad lockable and sealable toggle restricts unauthorized action
- Polarity sensitive
- Large capacity terminals
- Fast connection pin/fork busbar comb or NC or GB busbar chassis
- Suits pole covers, loadcentre's & Concept range of Panelboard's
- Approval No. NSW24265 or RCM

| SPECIFICATIONS | |
|---|---|
| Product Series | DIN-T |
| Component Type Power Distribution & Protection | MCB |
| Trip Curve | C |
| In, Rated Current at 30°C | 50 A @30°C |
| Poles | 1P |
| Rated Frequency | 50 / 60 Hz Hz |
| Un, Nominal Operational Voltage, AC | 240 V AC |
| Un, Nominal Operational Voltage(s), AC | 240 V AC<br>415 |
| Un, Nominal Operational Voltage, DC | 250 V DC |
| Details, Trip Characteristics | @400Hz = 1.5 x mag. trip; @DC = 1.4 x mag. trip |
| Ubmin, Service Voltage, AC, Min | 12 V AC |
| Ubmax, Service Voltage, AC, Max | 250 V AC |
| Ubmin, Service Voltage, DC, Min | 12 V DC |
| Ubmax, Service Voltage, DC, Max | 250 V DC |
| Isolator Application, IEC 60947-2 | Yes |
| Impulse Withstand Test Voltage | 6 kV |
| Insulation Resistance | 10000 MΩ |
| Dielectric Strength | 2.5kV |
| Electrical Service Life at Un, In | 1000 cycles |
| Mechanical service life | 20000 cycles |
| Utilization Category | A |
| IP Rating, Inside | IP40 |
| IP Rating, Outside | IP20 |
| Flammability Rating (UL94) | UL 94 V-2 |
| Wire / Conductor Size, Rigid Cable, In, Min | 1 mm² In |
| Wire / Conductor Size, Rigid Cable, Top, Max | 35 mm² Top |
| Wire / Conductor Size, Rigid Cable, Out, Min | 1 mm² Out |

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|---|---|
| Wire / Conductor Size, Flex Cable, Top, Max | 25 mm² Top |
| Wire / Conductor Size, Flex Cable, In, Min | 0.75 mm² In |
| Wire / Conductor Size, Rigid Cable, Bottom, Max | 35 mm² Bottom |
| Wire / Conductor Size, Flex Cable, Out, Min | 0.75 mm² Out |
| Wire / Conductor Size, Flex Cable, Bottom, Max | 25 mm² Bottom |
| Tightening Torque, Top, Nominal | 4.5 Nm |
| Tightening Torque, Bottom, Nominal | 4.5 Nm |
| Busbar System, Top | Fork<br>Pin |
| Busbar System, Bottom | Fork<br>Pin |
| Trip-Free Mechanism | Yes |
| Mounting | DIN-35 Rail Mount |
| Add-On Devices (side add-on) | Auxiliary Contacts<br>UVT<br>Motor Operator<br>Panelboard Switch<br>Shunt Trip |
| Sealable | Yes Y / N |
| Centre Trip Position | No Y / N |
| Accessories | Yes |
| Icn, Rated Short-Circuit Capacity, 1P, 230/400V AC | 6 kA |
| Ics, Rated Service Short-Circuit Breaking Capacity, AC (IEC 60898) | 100 % Icn |
| Icu, Rated Ultimate Short-Circuit Breaking Capacity, 220/240V AC | 10 kA @220/240VAC |
| Icu, Rated Ultimate Short-Circuit Breaking Capacity, <=60V DC | 10 kA |
| Height | 86 mm |
| Width | 18 mm |
| Depth | 76 mm |
| Weight | 0.125 kg |
| Package Quantity | 12 qty |
| Operating Temperature, Min | -25 °C min |
| Operating Temperature, Max | 55 °C max |
| Storage Temperature, Min | -55 °C min |
| Storage Temperature, Max | 55 °C max |
| Relative Humidity, Max | 95 %RH |
| Icu, Rated Ultimate Short-Circuit Breaking Capacity, 240V AC, 1P | 6 kA @240VAC, 1P |
| Icu, Rated Ultimate Short-Circuit Breaking Capacity, 415V AC, 2P | 6 kA @415VAC, 2P |
| Icu, Rated Ultimate Short-Circuit Breaking Capacity, 60V DC, 1P | 10 kA @60VDC, 1P |
| Icu, Rated Ultimate Short-Circuit Breaking Capacity, 220V DC, 1P | 20 kA @220VDC, 1P |
| Icu, Rated Ultimate Short-Circuit Breaking Capacity, 125V DC, 2P | 10 kA @125VDC, 2P |
| Vibration Acceleration (Max.) | 5 g |
| Vibration Rating | IEC 60077-16-3 |

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| Standards Compliance | IEC 60898<br>IEC 60068-2<br>DIN 40046<br>IEC 60077-16-3<br>IEC 60947-2<br>UL 94 V-2<br>AS/NZS 3111:2009 |
| Certifications | CE<br>RCM |

| REFERENCES | |
|---|---|
| IECEx Certificate | - |
| Supplier Declaration of Conformity: | DTCBDCxxxx_Supplier Declaration of Conformity (SDoC) |
| Installation Guide: | - |
| User Manual: | - |
| Manufacturer Datasheet: | - |
| Manufacturer Catalogue & Product Selection: | - |