

DCT Special Purpose Midget Fuses

Mersen DCT fuses were developed to meet requirements coming from new applications such as protection of photovoltaic cells, multi meters and compact on board traction equipment for auxiliary circuits. This high performance DC fuse in its compact size offers multiple competitive advantages particularly for international applications where DC voltage requirements are above 600V DC.

Features/Benefits:

- Low minimum breaking capacity (MBC)
- Compact size: 10 x 38 mm (13/32" x 1-1/2") size internationally accepted.
- Ferrule mount 1 to 30A for design versatility
- Can be used with UltraSafe™ fuse holders USM series
- 1 1/2" x 13/32" (10mm x 38mm) dimensions

Highlights:

- 750VAC / 1000VDC
- DC : L/R = 1mS

Applications:

- DC traction equipment
- Multi-meters
- Photovoltaic systems
- Semiconductor protection

Catalog Numbers, I²t (at 50,000 Amps –1000VDC L/R = 1ms)

| Catalog Number | Clearing I ² t(A ² s) | Watts Loss @ 80% Rating (W) | Watts Loss @ 100% Rating (W) |
|----------------|---|-----------------------------|------------------------------|
| DCT1-2 | - | 0.2 | 0.32 |
| DCT2-2 | - | 0.27 | 0.43 |
| DCT3-2 | - | 0.9 | 1.4 |
| DCT4-2 | - | 0.8 | 1.3 |
| DCT5-2 | - | 0.9 | 1.4 |
| DCT6-2 | - | 1.0 | 1.5 |
| DCT7-2 | - | 1.1 | 1.5 |
| DCT8-2 | 83 | 0.7 | 1.1 |
| DCT10-2 | 127 | 0.9 | 1.5 |
| DCT12-2 | 215 | 1.3 | 2.0 |
| DCT15-2 | 495 | 1.9 | 3.0 |
| DCT20-2 | 755 | 2.6 | 4.4 |
| DCT25-2 | 970 | 2.9 | 5.3 |
| DCT30-2 | 1650 | 3.0 | 5.8 |

Recommended Fuse Blocks for Midget (10x38mm) Fuses

| Number of Poles | Catalog Number | | | |
|-----------------|------------------------|-----------------|--------------------------|----------------------|
| | UltraSafe™ Fuse Holder | Screw Connector | Pressure Plate Connector | Copper Box Connector |
| Adder | | 30310 | 30320 | 30350 |
| 1 | USM1 | 30311 | 30321 | 30351 |
| 2 | USM2 | 30312 | 30322 | 30352 |
| 3 | USM3 | 30313 | 30323 | 30353 |



Ratings:

- Volts** : 750VAC
: 1000VDC
- Amps** : 1 to 30A
- I.R.** : 100kA I.R. AC
: 50kA I.R. DC
- MBC** : 2.0 x I_n (AC)
: 1.3 x I_n (DC : 1 - 7A)
: 2.0 x I_n (DC : 8 - 30A)
- L/R** : 1mS

Approvals:

- UL Recognized component File E60314

