

DF series

■ Features

- General purpose high capacity power relay boasting high reliability and achievements.

■ Model numbering system



Rated coil voltage: Numeric part indication

DC (V): 5, 12, 24, 48, 100

Coil type D: DC

Number of contact poles 1: 1 pole

Shape indication F: Coil side is #187 tab terminal, contact side is #250 tab terminal, flange-mounting type

Contact configuration Nil: Transfer contact

(M): Make contact

■ Safety standards

| | Contact rating | |
|--|-----------------------------|---------------------------------|
| | DFU 1a | DFU 1c |
| UL | 20A 275V AC 2hp 265V AC | 15A 280V AC 2hp 265V AC |
| CSA | 20A 250V AC 2hp 240V AC | 20A 250V AC(NO)/15A 250V AC(NC) |
| VDE | 20A $\cos \phi = 1$ 250V AC | 15A $\cos \phi = 0.4$ 250V AC |
| Electrical Appliances and Materials Safety Act | Conformable | |

■ Coil ratings

| AC/DC | Item Voltage | Rated current (mA) | Coil resistance (Ω) | Operate voltage (V) | Release voltage (V) | Maximum voltage (V) | Power consumption (W) |
|-------|-----------------|-----------------------|---------------------------------|------------------------|------------------------|------------------------|-----------------------------|
| | | | | Ratio to rated voltage | | | |
| DC | 5 | 180 | 27.8 | 80% max. | 10% min. | 110% | 0.9 |
| | 12 | 75 | 160 | | | | |
| | 24 | 37 | 650 | | | | |
| | 48 | 20 | 2400 | | | | |
| | 100 | 10 | 10 000 | | | | |
| | | | | | | | 0.96 |
| | | | | | | | 1.0 |

- Notes:
 1. Rated current and coil resistance are values at coil temperature of 20°C, tolerance is $\pm 10\%$.
 2. Operate voltage and release voltage are values at coil temperature of 20°C.
 3. Maximum voltage is the maximum value of the allowable voltage fluctuation range of the relay coil operating power supply with the ambient temperature at 20°C.