

DC HIGH VOLTAGE EV RELAY

EVD50



EVD50

PERFORMANCE

| ITEM | | PARAMETER | |
|-------------------------------------|--|--|---------------------------------|
| Contact Arrangement | | SPST-NO | |
| Auxiliary Contact | | SPST-NO(Optional) | |
| | | MIN Load: 8Vdc 100mA ; Contact Resistance: $\leq 100m\Omega$ | |
| Voltage Rating | | 12-200Vdc | 12-750Vdc 12-1000Vdc 12-1500Vdc |
| Current Rating | | 1-50A | |
| Current Endurance | | 50A Cont. ; 100A 10min. ; 200A 180sec. ; 300A 50sec. | |
| Break Current, Max (only 1 time) | | 1000A 320Vdc | |
| Contact Resistance (Initial) | | $\leq 1m\Omega$ (at 50A) | |
| Operate Time (at 20°C) | | 30ms Max. | |
| Bounce Time (at 20°C) | | 5ms Max. | |
| Release Time (at 20°C) | | 10ms Max. | |
| Mechanical Life (0.5s:0.5s) | | 2×10^5 Cycles | |
| Electrical Life | | See graph | |
| Current-carrying capacity curve | | See graph | |
| Insulation resistance | | Initial: 100M Ω 1000Vdc After test: 50M Ω 1000Vdc | |
| Impulse withstand voltage (initial) | Main contact 1mA/1min.(sea level) | AC 3500Vrms | |
| | Main contact & coil 1mA/1min.(sea level) | AC 2500Vrms | AC 3500Vrms |
| Mechanical performance | Shock | 20G peak,11ms 1/2 Sine wave (coil energized) | |
| | Vibration | 20G peak,80-2000Hz,Sine wave (coil energized) | |
| | Strength | 50G acceleration,half sine wave impulse 6ms, 50 times per axis. | |
| Operating & Storage Condition | Ambient Temperature | -40~+85°C | |
| | Humidity | 5~95% RH. | |
| Altitude | | $\leq 4000m$ | |
| Weight | | approx. 160g | |
| Certification | | UL、CE、CCC | |

COIL DATA

| Coil Type | Nominal voltage (at 20°C) | Pick-up voltage (at 20°C) | Drop-out voltage (at 20°C) | Coil resistance (at 20°C) | Holding power (at 20°C) | Coil polarity |
|-------------|---------------------------|---------------------------|----------------------------|--------------------------------|-------------------------|---------------|
| Single-coil | 12Vdc | $\leq 9.6Vdc$ | $\geq 1Vdc$ | $26\Omega \times (1 \pm 7\%)$ | approx. 5.5W | non-polarized |
| | 24Vdc | $\leq 19.2Vdc$ | $\geq 2Vdc$ | $96\Omega \times (1 \pm 7\%)$ | approx. 6.0W | non-polarized |
| | 48Vdc | $\leq 38.4Vdc$ | $\geq 4Vdc$ | $392\Omega \times (1 \pm 7\%)$ | approx. 5.9W | non-polarized |

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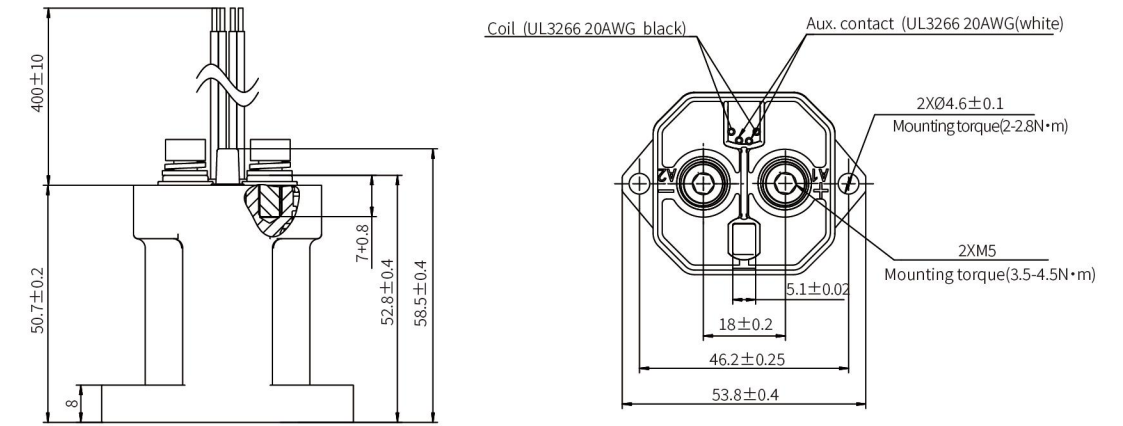
EVD50



PART CODE



DIMENSIONS



Note: 1.fastener:2xM5x8mm; 2.Mounting hardware M 4, torque 2-2.8N·m;
3.Main contact hardware M 5, torque 3.5-4.5N·m; 4.Main contact to copper area $\geq 10mm^2$;

GRAPHS

