



- HVDC 55A at 450VDC
- PCB mounting
- Max. switching current = 500A
- Contacts sealed in inert gas
- Magnet arc blowout
- Pre-charge relay



Contacts

| | | |
|----------------------------------------|-------------|---------------------|
| Contact arrangement | SPST-NO-DM | |
| Contact material | T2+Ag | |
| Max. switching voltage | AC/DC | 900VDC |
| Rated load (resistive, $\cos \phi=1$) | DC1 | 55A 450VDC |
| Max. continuous thermal current | 30s | 150A |
| | 10s | 250A |
| Max switching current | 1 time only | 500A 350VDC |
| Initial contact resistance | max. | 1m Ω (at 1A) |

Coil

| | | |
|------------------------------|---------|--------------|
| Nominal voltage (see page 2) | DC | 6...72VDC |
| Rated power consumption | approx. | 3.2W @ 12VDC |

Insulation

| | | |
|-----------------------|--------------------|---------------------------------------|
| Insulation resistance | initial | 100M Ω (min.) |
| | life end | 50M Ω (min.) |
| Dielectric strength | coil to contact | 2500Vrms / 1mA / 1 min (at sea level) |
| | contact to contact | 2500Vrms / 1mA / 1 min (at sea level) |

General Data

| | | |
|----------------------|------|--------------------------------------------|
| Operate time at 20°C | max. | 25ms |
| Bounce time at 20°C | max. | 7ms |
| Release time at 20°C | max. | 12ms |
| Electrical life | ops. | Voltage and current dependent - see fig. 1 |
| Mechanical life | ops. | 1 x 10 ⁶ |

Environmental

| | | |
|-----------------------|---------------------------------------------------|----------------------------------------|
| Environmental sealing | Contacts & coils inside a hermetically sealed can | |
| Ambient temperature | operating | -40 to +85°C |
| Relative humidity | 5 to 85%RH | |
| Shock resistance | 20G peak, 11ms ½ sine | |
| Vibration resistance | 20G sine peak (80 to 2000Hz) | |
| Dimensions | L x W x H | 49.5 x 51 x 37.7mm approx. (above PCB) |
| Weight | approx. | 150g±5g |

Ordering Code

D E V R 0 5 - 5 0 6 1 - S 8 - 1 0 1 2 - P C B

Series

Coil code:
See table 1

Contact material

50: T2+Ag

Contact arrangement

61: SPST-NO

81: SPST-NO (no polarity)

Body style

S8: PCB with M4 Female power terminals

Mounting & terminations

PCB: PCB mounting, coil & power contacts

| Coil Data | | | | | | | Table 1 |
|-----------|-----------------------|-----------------------------------------|---------------------------------|---------------------------------|--------------------------------------------|-------------------|------------------------|
| Coil code | Nominal voltage (VDC) | Must operate voltage max. (VDC at 20°C) | Maximum allowable voltage (VDC) | Must release voltage min. (VDC) | Coil resistance $\Omega \pm 5\%$ (at 20°C) | Coil Current (mA) | Coil Power (W at 20°C) |
| 1006 | 6 | 4.5 | 6.6 | 0.6 | 11 | 545.5 | 3.3 |
| 1012 | 12 | 9.0 | 13.2 | 1.2 | 45 | 266.7 | 3.2 |
| 1024 | 24 | 18.0 | 26.4 | 2.4 | 167 | 143.7 | 3.45 |
| 1028 | 28 | 21.0 | 30.8 | 2.8 | 240 | 116.7 | 3.3 |
| 1036 | 36 | 27.0 | 39.6 | 3.6 | 400 | 90.0 | 3.2 |
| 1048 | 48 | 36.0 | 52.8 | 4.8 | 630 | 76.2 | 3.66 |
| 1072 | 72 | 54.0 | 79.2 | 7.2 | 1600 | 45.0 | 3.2 |

