

300A/400A DC SSR for frequency converters

300A/400A DC Solid State Relay special for frequency converters

GZ***DBP series solid state relay is a kind of semiconductor switch specially designed for voltage type frequency converters and consists of photocoupling circuit and SCR circuit. Compared with other conventional contactors, it features low power consumption, fast speed, no spark interference, small size, light weight, long service life etc and really ideal replacement of ac magnetic contactors. It's recommended to use with radiator together and paste the heat conducting silica gel between radiator and SSR.

Characteristics:

- Bar type, convenient installation and operation
- High blocking voltage, 600~2200V selectable
- High power, high surge current capability
- LED input indication

| Main parameters | Symbols | GZ30060DBP | GZ40060DBP |
|---|--------------------|-------------------------------|-------------------------------|
| Control voltage range | Vdc | 19-30 | 19-30 |
| Control current range | mAdc | 10-18 (Iin=13.5mA, Vin=24Vdc) | 10-18 (Iin=13.5mA, Vin=24Vdc) |
| Turn-on voltage | Vdc | 19 | 19 |
| Turn-off voltage | Vdc | 1 | 1 |
| Reverse voltage | Vdc | 10 | 10 |
| Output parameters | | | |
| Max working current | Adc | 300 | 400 |
| Overload current | Iov A | 450 | 600 |
| Surge current | I _{tsm} A | 3000 | 4000 |
| Rated operation voltage | Vdc | 600 | 600 |
| Max blocking voltage | Vpk | 1600 | 1600 |
| Surge voltage | Vsm V | 1200 | 1200 |
| Off-state leakage current | mA | 15 | 20 |
| On-state voltage drop | V | 1.6 | 1.6 |
| Turn-on time | ms | 0.1 | 0.1 |
| Frequency range | Hz | 47-63 | 47-63 |
| Thermal resistance (junction to case) | °C/W | 0.025 | 0.025 |
| Other parameters | | | |
| Isolation voltage(Input / Output / Baseplate) | Vrms | 2500 | 2500 |
| Working temperature range | °C | -30~+80 | -30~+80 |
| Storage temperature range | °C | -30~+80 | -30~+80 |