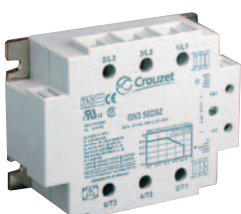


Solid-State Relays and I/O Modules

GN3/GN0 Series Three-phase & motor-reversing Solid-State Relays



- DBC substrate for superior I²T & thermal performance
- Extremely long life-expectancy, verified through UL 508 100.000 cycle endurance rating
- Epoxy-free design reduces stress on internal components
- Internal transient protection eliminates the need for external MOV
- UL / CSA / TUV approved, CE compliant (LVD), RoHS

The GN3 three-phase & motor-reversing Solid-State Relays are the latest addition to the Crouzet offering. As with the GN and GNR range of products, the GN3 utilizes the latest proven technology for superior thermal efficiency, noise immunity, and reliability.

The epoxy-free design minimizes stress on internal components due to the expansion and contraction of encapsulant material during normal operation. Furthermore, the EMC compliant design (level 3) and built-in transient protection provide an additional level of reliability in harsh industrial environments.

These relays are perfectly suited for a wide array of three-phase motor and heating applications. They are also ideal for use in applications switching multiple outputs with a single control signal. Available with ratings up to 50A per phase @ 600Vac (530Vac with internal snubber), with either a DC, AC, or low-voltage AC (18-36Vac) input.



- Motor start in valves

DC Input Three-Phase Solid-State Relays

| | Load Current (Arms) | Line Voltage (Vrms) | Control Voltage (Vdc) | Control Current @ 5Vdc (mA) | Surge Current 1-Cycle (A _{pk}) | I ² T (60 Hz, 1/2 Cycle) A ² S |
|----------|---------------------|---------------------|-----------------------|-----------------------------|--|--|
| GN325DLZ | 25 | 48-600 | 4-32 | 35 | 500 | 1.040 |
| GN325DLR | 25 | 48-600 | 4-32 | 356 | 500 | 1.040 |
| GN350DLZ | 50 | 48-600 | 4-32 | 35 | 800 | 2.600 |
| GN350DLR | 50 | 48-600 | 4-32 | 35 | 800 | 2.600 |

AC Input Three-Phase Solid-State Relays

| | Load Current (Arms) | Line Voltage (Vrms) | Control Voltage (Vac) | Control Current @ 120Vac/24Vac (mA) | Surge Current 1-Cycle (A _{pk}) | I ² T (60 Hz, 1/2 Cycle) A ² S |
|----------|---------------------|---------------------|-----------------------|-------------------------------------|--|--|
| GN325BLZ | 25 | 48-600 | 90-140 | 16 | 500 | 1.040 |
| GN325BLR | 25 | 48-600 | 90-140 | 16 | 500 | 1.040 |
| GN325ELZ | 25 | 48-600 | 18-36 | 20 | 500 | 1.040 |
| GN325ELR | 25 | 48-600 | 18-36 | 20 | 500 | 1.040 |
| GN350BLZ | 50 | 48-600 | 90-140 | 16 | 800 | 2.600 |
| GN350BLR | 50 | 48-600 | 90-140 | 16 | 800 | 2.600 |
| GN350ELZ | 50 | 48-600 | 18-36 | 20 | 800 | 2.600 |
| GN350ELR | 50 | 48-600 | 18-36 | 20 | 800 | 2.600 |

1) "Z" denotes zero-cross output, "R" denotes random-fire output.

2) Replace the "L" in the part number with "S" for internal RC snubber network.

3) Replace the "B" or "E" in the part number with "A" for 180-260Vac control voltage.

Motor Reversing Relays

DC Input Three-Phase Motor-Reversing Solid-State Relays

| | Load Current (Arms) | Line Voltage (Vrms) | Control Voltage (Vdc) | Control Current @ 5Vdc (mA) | Surge Current 1-Cycle (A _{pk}) | I ² T (60 Hz, 1/2 Cycle) A ² S |
|----------|---------------------|---------------------|-----------------------|-----------------------------|--|--|
| GN025DSR | 25 | 48-530 | 4-32 | 25 | 500 | 1.040 |
| GN050DSR | 50 | 48-530 | 4-32 | 25 | 800 | 2.600 |