

Solid state relays with integrated heatsink, DIN rail mounting - GRD range 90 mm

- Three-phase
- Complete, compact units
- Tailor-made solution to current sinks
- DIN rail and panel mounting
- Rating: 3 x 25 A
- Back-to-back SCRs
- Protection by RC filter
- Optional protection by removable varistor
- LED display of input status
- UL - cUL approval and CE marking



Output specifications

Voltage range (Vrms max)	48-660
Peak voltage (t=1 min.) (Vpeak)	1200
Maximum current (A)	3 x 25
Maximum off-state leakage (mA) at Vmax and T = 25 °C	20 per phase
Minimum current (mArms)	100 per phase
Max. 1-cycle surge T=25°C (A peak)	500
Max. 1-second surge T=25°C (A peak)	145
On-state voltage drop at Imax and T=25°C (Vpeak)	1.6
I2t (t=10ms) A2s	1260
Static (off-state) dv/dt (V/us)	500
Supply frequency range (Hz)	47 to 80
cos φ (Zero voltage)	> 0.5
Rth junction/ ambient air	1° C/W

Input specifications

Input voltage (V)	90-280 ~	4-32 ==
Drop-out voltage	10 Vrms	1V ==
Maximum current (at Vmax)	10 mArms	10 mA
Nominal input resistance (kΩ)	45	3
Response time (close)	20 ms	0.5 cycle max.
Response time (open)	30 ms	0.5 cycle max.

For instantaneous switching models, turn-on time is less than 100 μs

Characteristics

Operating temperature (°C)	-20 to +80
Storage temperature (°C)	-40 to +100
Input to output insulation voltage (Vrms)	4000
Breakdown voltage (Vrms)	2500
Input/output capacitance (pF)	8
Material	Casing
	Baseplate
Weight (g)	Self-extinguishing (UL 94 V0) Aluminium 940

Part numbers

Zero voltage switching

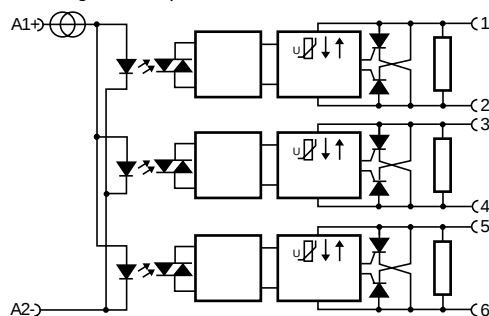
Rating	Output voltage	Input voltage	SCR
3 x 25 A	48-660 V ~	90-280 V ~	84 130 311
		4-32 V ==	84 130 310

Instantaneous switching

Rating	Output voltage	Input voltage	SCR
3 x 25 A	48-660 V ~	4-32 V ==	84 130 312

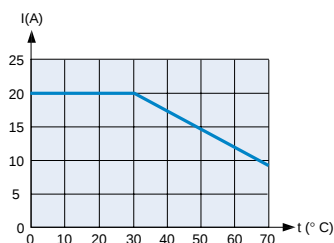
Thermal dissipation curves

GRD range - three-phase with SCR

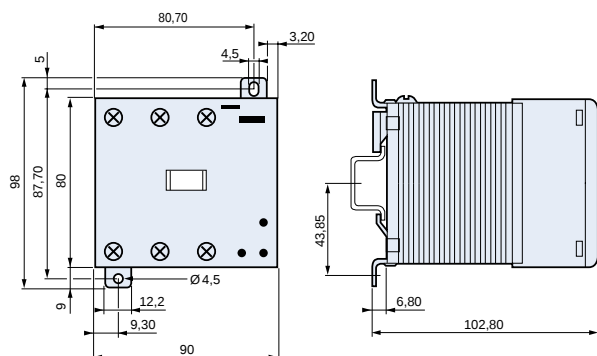


Curves for temperature-dependent derating

GRD range 90 mm - 3 x 20 A



Dimensions



To order, specify :

Standard products

Standard products,
non stocked

1 Part number
Example: Solid state relay -
GRD range 90 mm - 84 130 311