

Solid State Relays

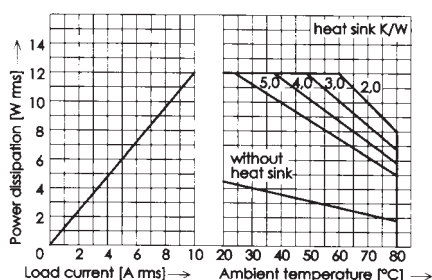
1-phase for AC loads and chassis mounting



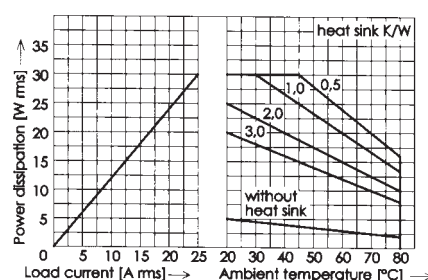
| SSR type | | WG A5 6A 10 Z | WG A5 6A 25 Z | WG A5 6A 40 Z | WG A5 6D 10 Z | WG A5 6D 25 Z | WG A5 6D 40 Z |
|------------------------------|------------------------|---|---|---|---|---|---|
| Switching type | | zero cross | zero cross | zero cross | zero cross | zero cross | zero cross |
| Approvals | | UL, VDE | UL, VDE | UL, VDE | UL, VDE | UL, VDE | UL, VDE |
| Circuit diagrams, dimensions | | page 19 | page 19 | page 19 | page 19 | page 19 | page 19 |
| Output | | triac | triac | triac | triac | triac | triac |
| Application Fields | | Resistive loads Inductive Loads with $\cos\varphi > 0.85$ | Resistive loads Inductive Loads with $\cos\varphi > 0.85$ | Resistive loads Inductive Loads with $\cos\varphi > 0.85$ | Resistive loads Inductive Loads with $\cos\varphi > 0.85$ | Resistive loads Inductive Loads with $\cos\varphi > 0.85$ | Resistive loads Inductive Loads with $\cos\varphi > 0.85$ |
| Input Circuit | | | | | | | |
| Control Voltage Range | V | 90 - 280 AC | 90 - 280 AC | 90 - 280 AC | 3 - 32 DC | 3 - 32 DC | 3 - 32 DC |
| Control Current Max. | mA | 10 | 10 | 10 | 34 | 34 | 34 |
| Turn-off voltage Min. | V DC | 10 AC | 10 AC | 10 AC | 1 DC | 1 DC | 1 DC |
| Input Resistance | Ω | 30.000 | 30.000 | 30.000 | 900 | 900 | 900 |
| Output Circuit | | | | | | | |
| Load Voltage Range | V rms | 24 - 280 AC | 24 - 280 AC | 24 - 280 AC | 24 - 280 AC | 24 - 280 AC | 24 - 280 AC |
| Peak-off-stage Voltage | V drn | 600 | 600 | 600 | 600 | 600 | 600 |
| Off-state Leakage Current | mA _{off} max. | 6 | 12 | 12 | 6 | 12 | 12 |
| Load Current Range | A rms | 0.1 - 10 | 0.1 - 25 | 0.2 - 40 | 0.1 - 10 | 0.1 - 25 | 0.2 - 40 |
| Surge Current. 1 half wave | A peak | 110 | 230 | 315 | 110 | 230 | 315 |
| I ² t for Fusing | A ² s | 60 | 260 | 500 | 60 | 260 | 500 |
| On-state Voltage | V peak | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 |
| Off-state (static) dv/dt | V/ μ s | 200 | 200 | 200 | 200 | 200 | 200 |
| Snubber | Ω ; nF | 47 ; 47 | 47 ; 100 | 47 ; 100 | 47 ; 47 | 47 ; 100 | 47 ; 100 |
| General Data | | | | | | | |
| Turn-on Time Max. | ms | 33 | 33 | 33 | 11 | 11 | 11 |
| Turn-off Time Max. | ms | 33 | 33 | 33 | 11 | 11 | 11 |
| Line Frequency Range | Hz | 47 - 63 | 47 - 63 | 47 - 63 | 47 - 63 | 47 - 63 | 47 - 63 |
| Isolation Volt. Between: | | | | | | | |
| - input / output | V rms | 4.000 | 4.000 | 4.000 | 4.000 | 4.000 | 4.000 |
| - input-output / base | V rms | 2.500 | 2.500 | 2.500 | 2.500 | 2.500 | 2.500 |
| Isolation Resistance | M Ω | 50 | 50 | 50 | 50 | 50 | 50 |
| Operating Temperature | | -20... +80 | -20... +80 | -20... +80 | -20... +80 | -20... +80 | -20... +80 |
| Recommended Varistor | | SIOV-S20 K230 | SIOV-S20 K230 | SIOV-S20 K230 | SIOV-S20 K230 | SIOV-S20 K230 | SIOV-S20 K230 |

UL recognised component: Suitable for a max. surrounding air temperature of 40°C. For use at other ambient temperatures, check the derating diagrams.

Derating diagram WG A5 6 10 Z



Derating diagram WG A5 6 25 Z



Derating diagram WG A5 6 40 Z

