# Solid State Relays
# Datasheet WG A8 8D, 10D, 12D

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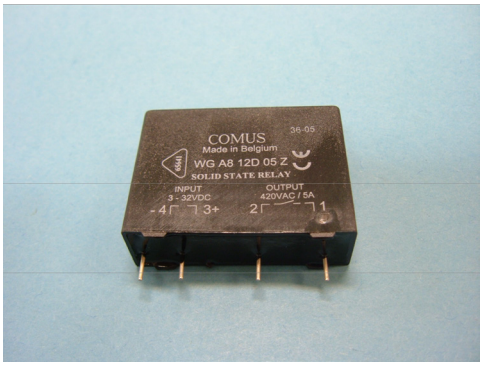


## Features

**Switching** Zero cross & Random

**Output** Triac

**Input** DC with constant current control

**Applications**

Resistive and inductive loads with cos< > 0.85 (Z-type)
indictive load with cos< > 0.65 (R-type)

## Technical data

| WG A8 | 8D 05 | 10D 05 | 12D 05 |
|---|---|---|---|
| **Input circuit** | | | |
| Control voltage range | 3...32 VDC | | |
| Control current max | 22 mA | | |
| Turn-off voltage min.. | 1 VDC | | |
| Input resistance | Constant current | | |
| **Output circuit** | TRIAC | TRIAC | ALTERNISTOR |
| Load voltage range | 24...420 VAC | 24...480 VAC | 24...480 VAC |
| Peak-off state voltage | 800 Vdrm | 1000 Vdrm | 1200 Vdrm |
| Off-state leakage current | 5 mA eff. | | |
| Load current range | 5 A | | |
| Surge current 1 half wave | 120 $A_{peak}$ | | |
| $I^2t$ for fusing | 72 $A^2s$ | | |
| On-state voltage | 1,6 $V_{peak}$ | | |
| Off-state (static) dv/dt | 500 V/µs | | |
| Snubber | 47 Ω / 10 nF | | |
| **General data** | | | |
| Turn-on time max. | 11 ms (WG A8 ...D 05 Z zero cross type)<br>0.1 ( WG A8 ...D 05 R random switching-type) | | |
| Turn-off time max. | 11 ms | | |
| Line frequency range. | 47...63 Hz | | |
| Isolation volt. between input/output | 4.000 V | | |
| Isolation volt. between input-output/base | ——— | | |
| Isolation resistance | 50 MΩ | | |
| Operation temperature | -20...+80 °C | | |
| Recommended varistor | SIOV-S14 K230 | | |
| Approvals | ——— | ——— | VDE |
| RoHS conform | YES | | |

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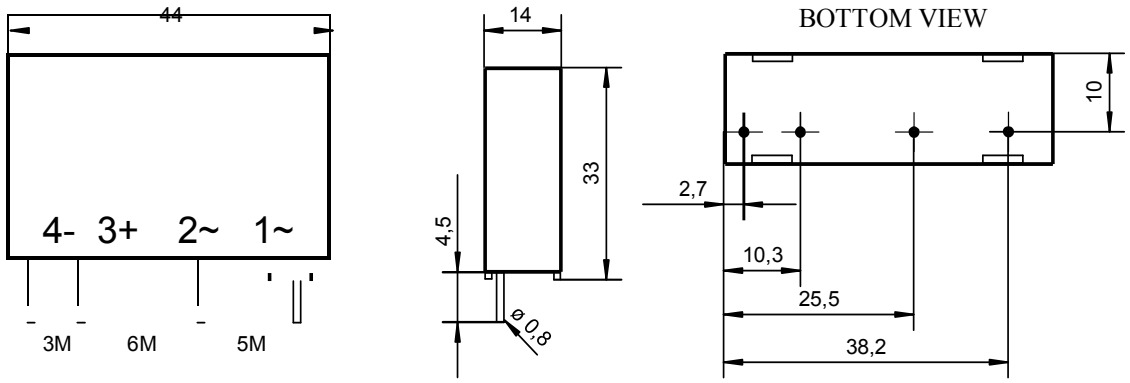
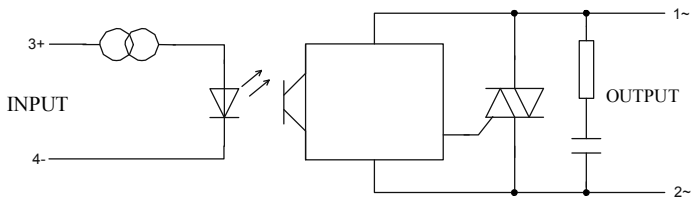
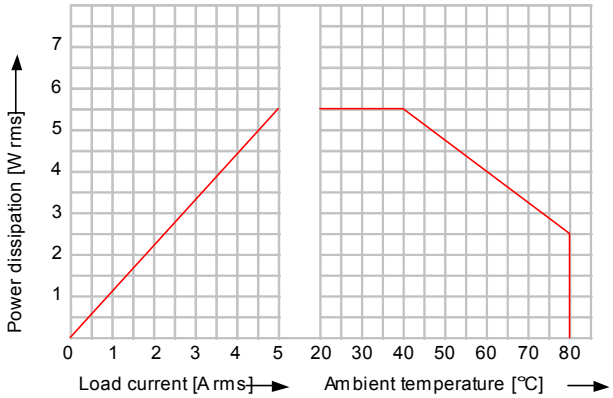
## Dimensions in mm




## Circuit diagram




## Housing specifications

| | |
|---|---|
| Weight | Ca. 35 g |
| Housing material | Glass filled polyester |
| Potting compound | UL recognized Epoxy |
| Terminals | Solder pins |

## Ordering

WG A8 8D 05 Z

Peak-off-state voltage

8: 800 Vdrm
10: 1000
12: 1200

Switching

R: Random
Z: Zero cross