

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 $\cos\phi > 0.85$ (Z-type)
inductive load with $\cos\phi > 0.65$ (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 V _{drm}	1000 V _{drm}	1200 V _{drm}
Off-state leakage current	5 mA eff.		
Load current range	5 A		
Surge current 1 half wave	120 A _{peak}		
I²t for fusing	72 A²s		
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) 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		

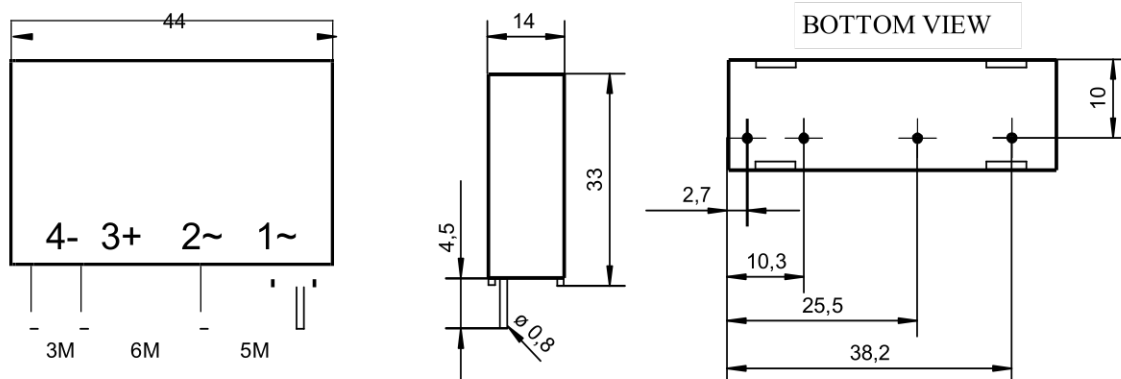
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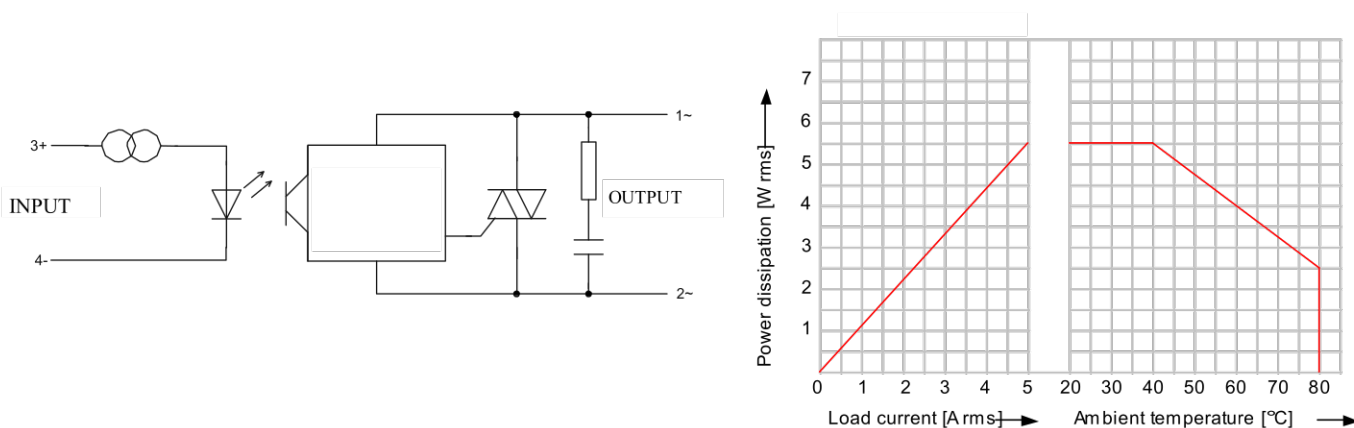
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Dimensions in mm



Circuit diagram



Housing specifications

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

Ordering

