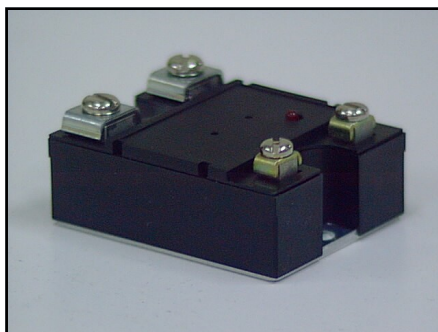




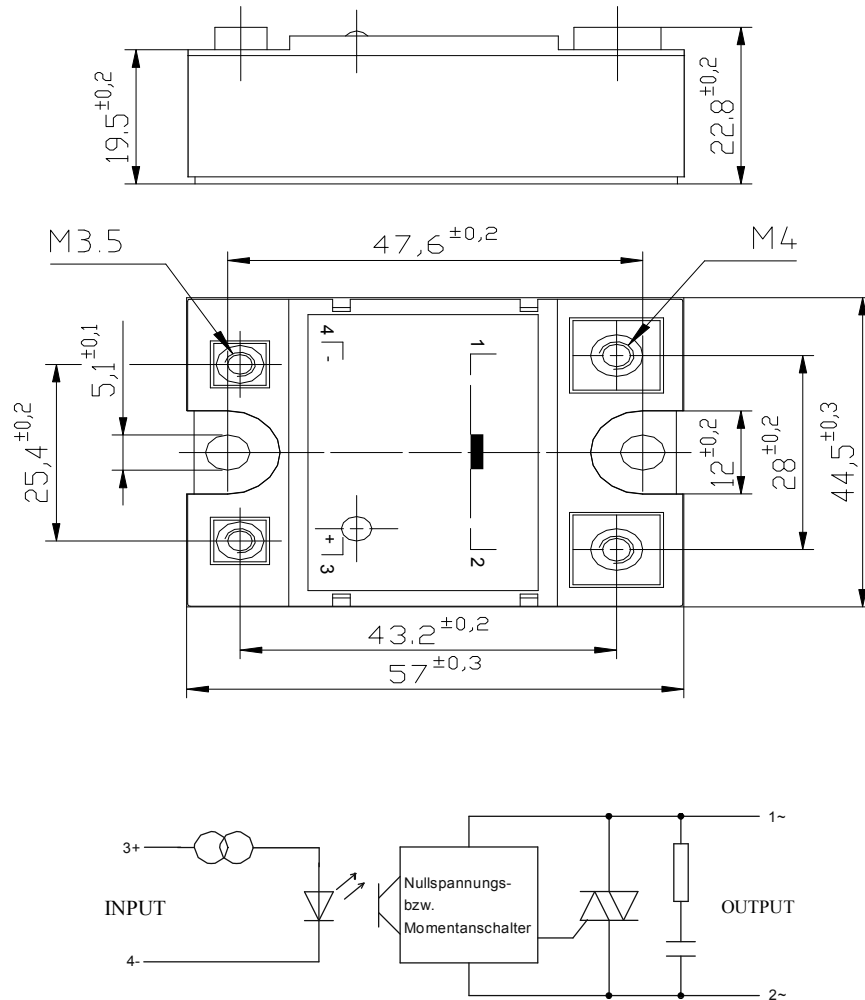
Features

Switching	Zero cross and random
Output	Triac with internal snubber
Input	DC with constant current control Status-indicating LED (red)
Applications	resistive and inductive loads with $\cos\phi > 0,85$ (Z-Type) inductive load with $\cos\phi > 0,65$ (R-Type)

Technical data

WG A5 6Dxxx-LD	10 Z	10 R	25 Z	25 R	40 Z	40 R
Input circuit						
Control voltage range	3...32 VDC					
Control current max.	22mA					
Turn-off voltage min.	1 VDC					
Input resistance	Constant current					
Output circuit						
Load voltage range	24...280 VAC					
Peak-off-state voltage	600 V _{drm}					
Off-state leakage current	6 mA eff.		12 mA eff.			
Load current range	0,1...10 A		0,1...25 A		0,2...40 A	
Surge current 1 half wave	110 A _{peak}		230 A _{peak}		400 A _{peak}	
I ² t for fusing	60 A²s		260 A²s		880 A²s	
On-state voltage	1,85 V _{peak}					
Off-state (static) dv/dt	500 V/μs					
Snubber	47 Ω / 47 nF		47 Ω / 100 nF			
General data						
Turn-on time max.	11 ms	0,1 ms	11 ms	0,1 ms	11 ms	0,1 ms
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	2.500 V					
Isolation resistance	50 MΩ					
Operation temperature	-20...+80 °C					
Recommended varistor	SIOV-S20 K230					

Dimensions in mm & circuit diagram



Ordering Information

WG A5 6D 10 Z — LD

CURRENT

10 : 10A

25 : 25A

40 : 40A

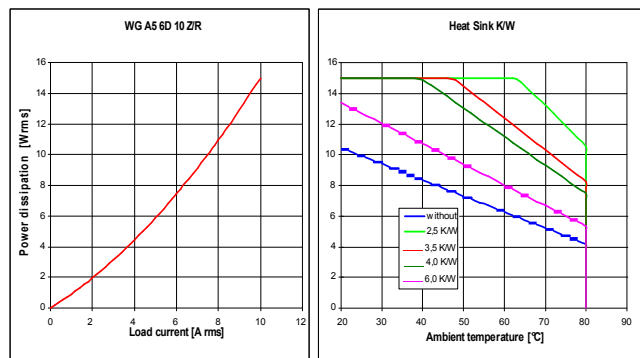
SWITCHING

R : Random

Z : Zero cross

Options: Suffix – P, 100% potted

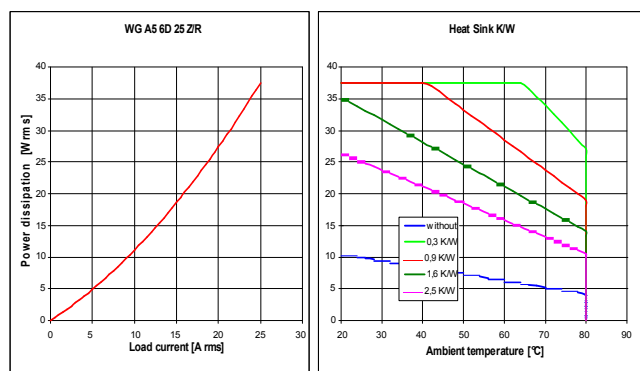
Derating diagrams



**Number of SSR per Heatsink/
Load current per SSR**

Heat sink	1 SSR	2 SSR	3 SSR
WG K1/100	10 A	8 A	
WG K2/100	10 A	10 A	
WG K3/160	10 A	10 A	10 A
WG K4/160L	10 A	10 A	10 A
WG K5/80	10 A		

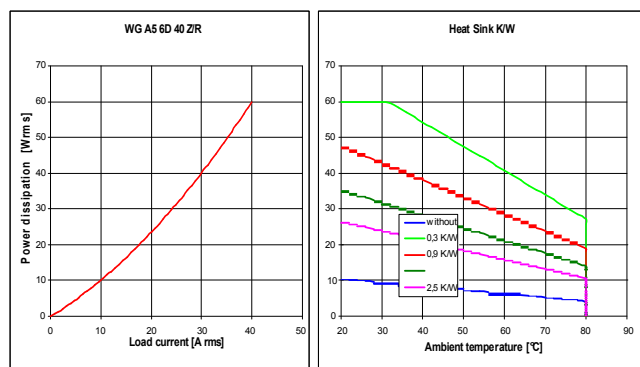
Values for 40°C enclosure-temperature and mounted with conducting paste between the SSR and the heat sink



**Number of SSR per Heatsink/
Load current per SSR**

Heat sink	1 SSR	2 SSR	3 SSR
WG K1/100	14 A	10 A	
WG K2/100	17 A	14 A	
WG K3/160	25 A	21 A	18 A
WG K4/160L	25 A	25 A	25 A
WG K5/80	24 A		

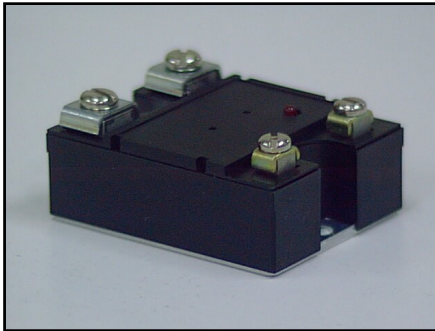
Values for 40°C enclosure-temperature and mounted with conducting paste between the SSR and the heat sink



**Number of SSR per Heatsink/
Load current per SSR**

Heat sink	1 SSR	2 SSR	3 SSR
WG K1/100	16 A	11 A	
WG K2/100	20 A	15 A	
WG K3/160	31 A	24 A	20 A
WG K4/160L	40 A	36 A	32 A
WG K5/80	27 A		

Values for 40°C enclosure-temperature and mounted with conducting paste between the SSR and the heat sink



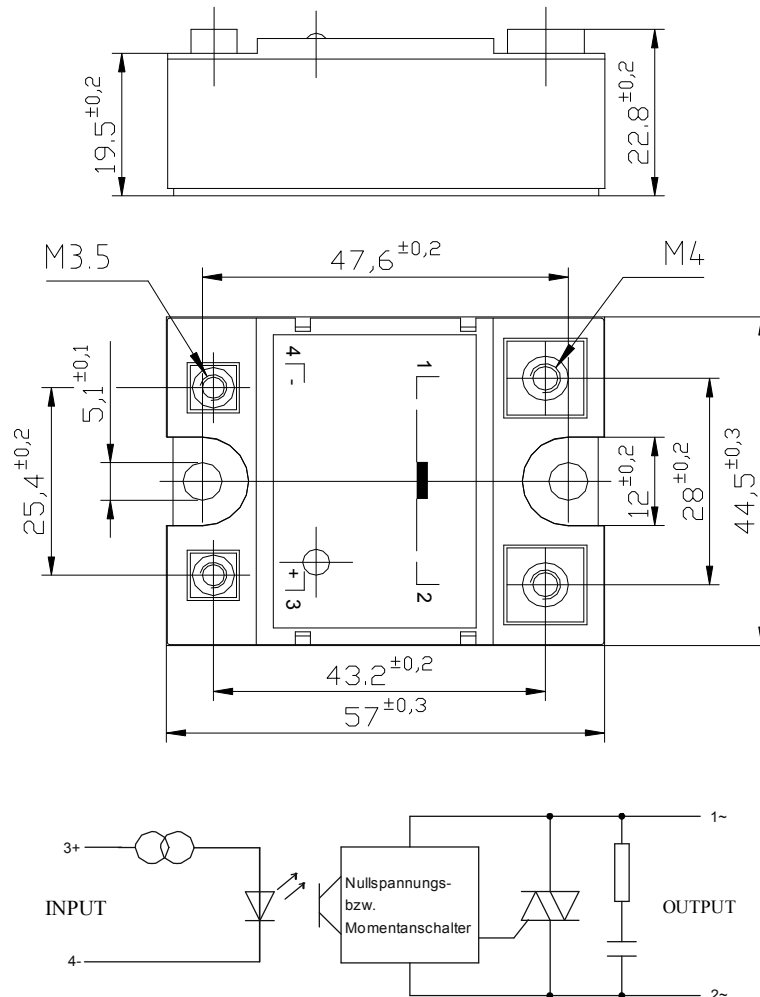
Features

Switching	Zero cross and random
Output	Triac with internal snubber
Input	DC with constant current control Status-indicating LED (red)
Applications	resistive and inductive loads with $\cos\phi > 0,85$ (Z-Type) inductive load with $\cos\phi > 0,65$ (R-Type)

Technical data

WG A5 8Dxxx-LD	10 Z	10 R	25 Z	25 R	40 Z	40 R
Input circuit						
Control voltage range	3...32 VDC					
Control current max.	22mA					
Turn-off voltage min.	1 VDC					
Input resistance	Constant current					
Output circuit						
Load voltage range	24...420 VAC					
Peak-off-state voltage	800 V _{drm}					
Off-state leakage current	12 mA eff.					
Load current range	0,1...10 A		0,1...25 A		0,2...40 A	
Surge current 1 half wave	110 A _{peak}		230 A _{peak}		400 A _{peak}	
I²t for fusing	60 A²s		260 A²s		880 A²s	
On-state voltage	1,85 V _{peak}					
Off-state (static) dv/dt	500 V/µs					
Snubber	47 Ω / 22 nF					
Genral data						
Turn-on time max.	11 ms	0,1 ms	11 ms	0,1 ms	11 ms	0,1 ms
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	2.500 V					
Isolation resistance	50 MΩ					
Operation temperature	-20...+80 °C					
Recommended varistor	SIOV-S20 K420					

Dimensions in mm & circuit diagram



Ordering Information

WG A5 8D 10 Z — LD

CURRENT

10 : 10A

25 : 25A

40 : 40A

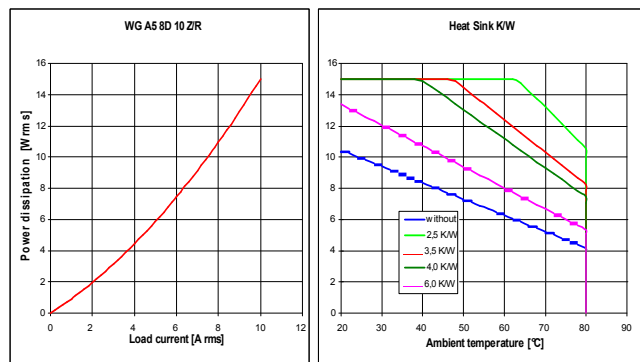
SWITCHING

R : Random

Z : Zero cross

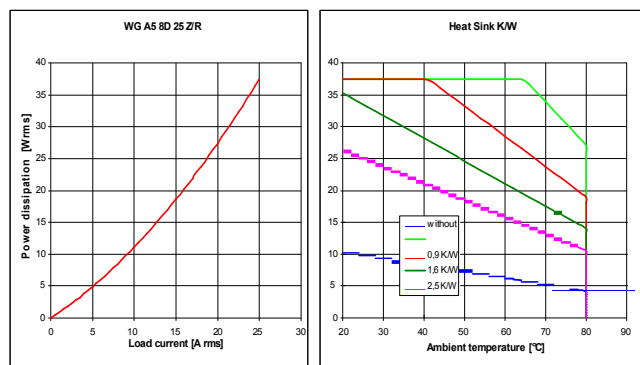
Options: Suffix – P, 100% potted

Derating diagrams



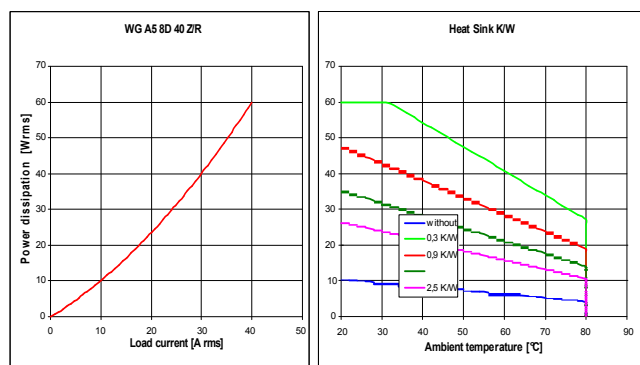
Number of SSR per Heatsink/ Load current per SSR			
Heat sink	1 SSR	2 SSR	3 SSR
WG K1/100	10 A	8 A	
WG K2/100	10 A	10 A	
WG K3/160	10 A	10 A	10 A
WG K4/160L	10 A	10 A	10 A
WG K5/80	10 A		

Values for 40°C enclosure-temperature and mounted with conducting paste between the SSR and the heat sink



Number of SSR per Heatsink/ Load current per SSR			
Heat sink	1 SSR	2 SSR	3 SSR
WG K1/100	14 A	10 A	
WG K2/100	17 A	14 A	
WG K3/160	25 A	21 A	18 A
WG K4/160L	25 A	25 A	25 A
WG K5/80	24 A		

Values for 40°C enclosure-temperature and mounted with conducting paste between the SSR and the heat sink



Number of SSR per Heatsink/ Load current per SSR			
Heat sink	1 SSR	2 SSR	3 SSR
WG K1/100	16 A	11 A	
WG K2/100	20 A	15 A	
WG K3/160	31 A	24 A	20 A
WG K4/160L	40 A	36 A	32 A
WG K5/80	27 A		

Values for 40°C enclosure-temperature and mounted with conducting paste between the SSR and the heat sink