Solid State Relays
Datasheet WG F8

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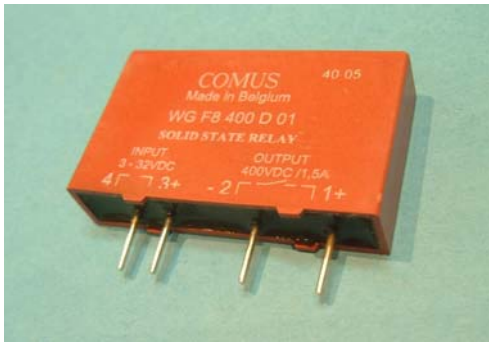

Features

Switching Direct

Output MOS-FET

Input DC

Applications
Resistive, capacitive and inductive DC loads

Technical data

WG F8...	50 D 08	60 D 10	100 D 05	200 D 03	400 D 01
Input circuit					
Control voltage range	3...32 VDC				
Control current max	25 mA				
Turn-off voltage min..	1 VDC				
Input resistance	Constant current				
Output Circuit					
Load voltage range	1...50 VDC	1.....60DC	1...100 VDC	1...200 VDC	1...400 VDC
Peak-off-state voltage	50 Vdrm	60 Vdrm	100 Vdrm	200 Vdrm	400 Vdrm
Off-state leakage Current	0,1 mA eff.				
Load current range	0...8 A	0...10A	0...5 A	0...3 A	0...1,5 A
Surge current.2ms max.	80 A	100A	50 A	35 A	15 A
On-state resistance max.	36 mΩ	25mΩ	150 mΩ	360 mΩ	1100 mΩ
General data					
Turn-on time max.	2 ms				
Turn-off time max.	0,1 ms				
PWM frequency max	250 Hz				
Isolation volt. between input/output	1.500 VDC				
Isolation resistance	50 MΩ				
Operatingtemperature	-20...+80 °C				
We recommend external contact protection (diode, RC-snubber) for inductive loads					

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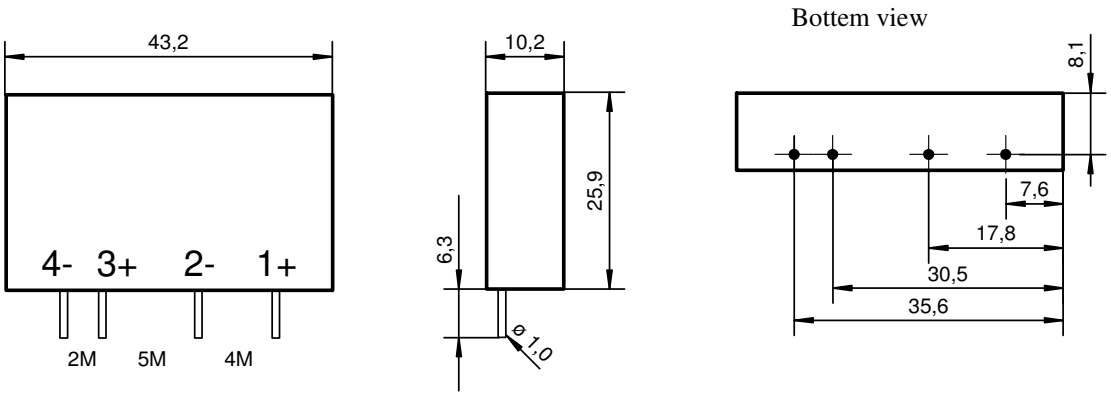
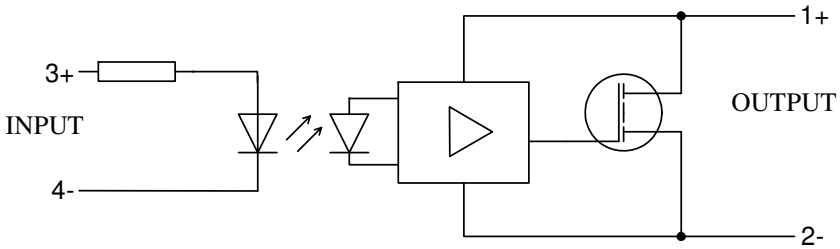
Dimensions in mm & circuit diagram





Housing specifications

Weight	Approx. 20 g
Housing material	Glass filled polyester
Potting compound	Thermally conductive epoxy
Terminals	Solder pins

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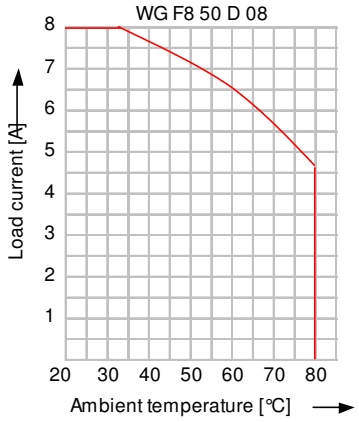
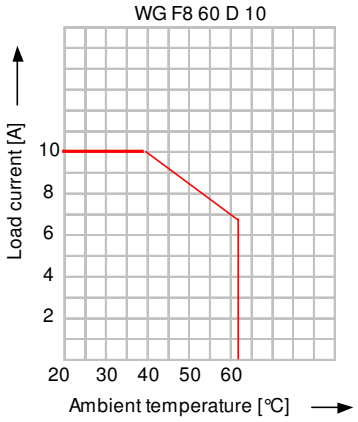
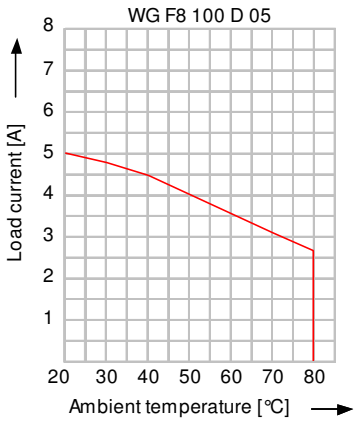
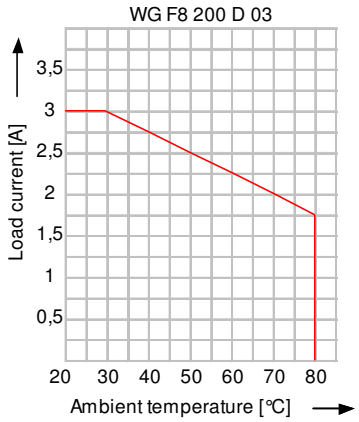
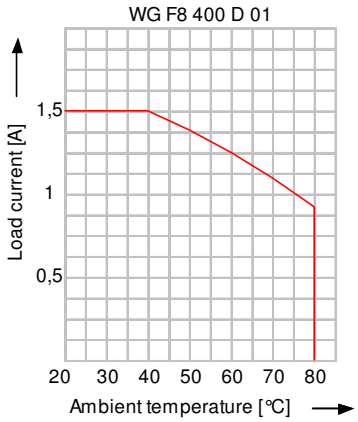
Derating-diagrams











Ordering

Ordering partnumber	Voltage	Current
WG F8 50 D 8	50 VDC	0...8 A
WG F8 60 D 10	60 VDC	0...10 A
WG F8 100 D 05	100 VDC	0...5 A
WG F8 200 D 03	200 VDC	0...3 A
WG F8 400 D 01	400 VDC	0...1,5 A