Dual Solid State Relays 25 and 40 A; Vdc Input/ Vac Output

SSRLDUAL Series

- **Two 25 or 40 A SSR's in 1 Standard Package**
- **Opto-Isolated 2500 VRMS**

The OMEGA® SSRLDUAL Series solid-state relays are 2 totally independent AC output relays in a single standard panel mount package. They utilize OMEGA's inverse-parallel SCR output design with integral dV/dt snubber circuitry to provide protection against false triggering by limiting the rate of rise of most voltage transients to within acceptable limits. Zero volt turn-on and zero current turn-off of the load being switched substantially reduces EMI and RFI.

General Specifications

Operating Temperature: -40 to 80°C (-40 to 176°F)

Storage Temperature: -40 to 100°C (-40 to 212°F)

Input to Output Isolation: 4000 Vrms

Input/Output to Ground Isolation: 2500 Vrms

Input to Output Capacitance: 8 pF (typical)

Operating Frequency: 47 to 63 Hz

Housing Material: UL 94V0 (self-extinguishing)

Output

Voltage Range (Vrms): 24 to 280 Vac

Peak Voltage (Vpk, t = 1 Minute): 550

Off-State Leakage (@ Maximum Line Voltage and Ta = 25°C): 0.1 mArms

Output Current (Mounted on Proper Heat Sink, See Deratings):

DC25: 25
DC40: 40

Minimum Current: 100 mArms

Maximum 1-Cycle Surge Current (Apk, Ta = 25°C):

DC25: 500
DC40: 780

Forward Voltage Drop (Vpk @ Imax, Ta = 25°C):

DC25: 1.4
DC40: 1.3

I²T (60 Hz, ½ Cycle):

DC25: 1041
DC40: 2435

Rjb (Thermal Res. Junction to Baseplate):

DC25: 0.6
DC40: 0.4

Static Off-State dv/dt (Vμs, Ta = 25°C): 500

Input

Input Voltage: 4 to 15 Vdc

Drop-Out Voltage: 1 Vdc

Minimum Input Current (for On-State): 7.5 mA

Maximum Input Current: 34 mA

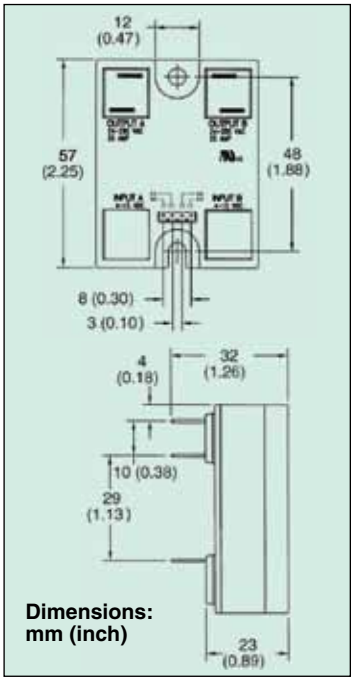
Input Resistance: 500 Ω

Turn-On Time*: 8.33 ms

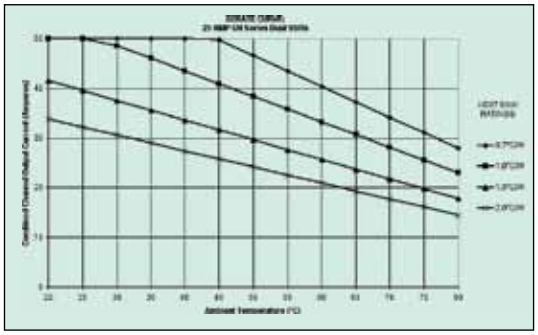
Turn-Off Time: 8.33 ms

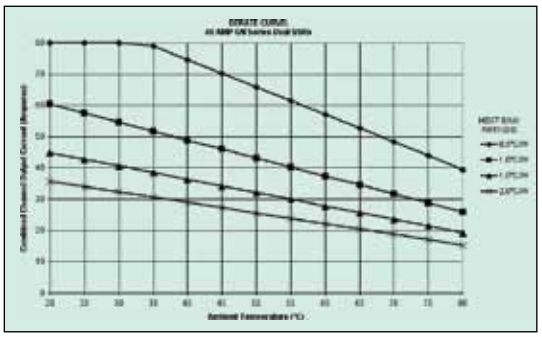
** Random SSR's turn on in less than 100 μs.*

SSRLDUAL240DC25 shown smaller than actual size.



Dimensions: mm (inch)





To Order

Model Number	Description
SSRLDUAL240DC25	25 A dual SSR output
SSRLDUAL240DC40	40 A dual SSR output
CX136-4	Connector

Comes with complete operator's manual.

***Ordering Example: SSRDUAL240DC25**, 25 A dual SSR output.*