

SSM1D312BD

solid state relay - rail mounting - input 4-32 V DC, output 1-100 V DC ,12A



Main

Range of product	Zelio Relay
Product or component type	Solid state relay
Device short name	SSM
Number of channels	1
Network number of phases	1 phase

Complementary

Mounting support	Symmetrical DIN rail
[In] rated current	12 A
Output voltage	1...100 V DC
Control circuit voltage	4...32 V DC
Contacts type and composition	1 NO
Tightening torque	0.5...0.8 N.m for output 0.5...0.8 N.m for input
Connections - terminals	Screw terminals 1 x 0.3...1 x 2.5 mm ² for output - AWG 22...AWG 14 Screw terminals 1 x 0.3...1 x 1.5 mm ² for input - AWG 22...AWG 16
Capacitance unbalance	<= 10 pF for input/output
Insulation resistance	1000 MOhm at 500 V DC
Local signalling	LED green for input status
Switching voltage	<= 1 V DC turn-off >= 4 V DC turn-on
Input current limits	9...11 mA
Solid state output type	Mosfet output DC switching
Load current	0.0025...12 A
Absolute maximum voltage	100 V
Surge current	<= 60 A for 10 ms
Voltage drop	<= 0.5 V on-state
Resistance	0.045 Ohm on-state
Leakage current	<= 0.1 mA off-state
Response time	0.3 ms turn-off 0.6 ms turn-on
Overvoltage category	III
Width	18 mm
Height	90.3 mm
Depth	83.7 mm
Product weight	0.09 kg

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Environment

Flame retardance	V0 conforming to UL 94
Dielectric strength	4 kV DC for input or output to case 4 kV DC for input/output
Pollution degree	2
Standards	IEC 61000 IEC 60950-1 IEC 62314
Product certifications	CSA RoHS UL REACH
Marking	CE
IP degree of protection	IP20
Ambient air temperature for operation	-30...80 °C
Ambient air temperature for storage	-30...100 °C

Dimensions



Derating Curves



A : Load Current (Amperes)

B : Ambient Temperature (°C)

1 : Multiple units, no minimum spacing between components

2 : Installed single unit, distance to adjacent components more than 18 mm