Product data sheet
Characteristics

SSM1D212BD
single phase relay, Harmony Solid State Modular Relays, 12A, DIN rail mount, DC switching, input 4 to 32V DC, output 1 to 60V DC, 1NO



Main

Range of product	Harmony Solid State Relays
Device short name	SSM
Product or component type	Modular DIN rail relay
Number of channels	1
Network number of phases	1 phase
Output switching mode	DC switching

Complementary

Product configuration type	Relay configuration
Mounting support	Symmetrical DIN rail
[In] rated current	12 A
Output voltage	1...60 V DC
[Uc] control circuit voltage	4...32 V DC
Tightening torque	0.5...0.8 N.m for input 0.5...0.8 N.m for output
Connections - terminals	Screw terminals: 1 x 0.3...1 x 1.5 mm², (22 AWG...16 AWG) for input Screw terminals: 1 x 0.3...1 x 2.5 mm², (22 AWG...14 AWG) for output
Capacitance unbalance	10 PF for input/output
Insulation resistance	1000 MOhm at 500 V DC
Local signalling	LED (green) for input status
Minimum switching voltage	4 V DC turn-on
Maximum switching voltage	1 V DC turn-off
Input current limits	8…11 MA
Solid state output type	DC switching Mosfet output
Load current	0.0025…12 A
Absolute maximum voltage	60 V
Surge current	100 A for 10 ms
Maximum voltage drop	<0.5 V on-state
Resistance	0.045 Ohm on-state
Maximum leakage current	0.1 MA off-state
Response time	1.7 ms (turn-on) 0.3 ms (turn-off)
Overvoltage category	III
Width	11 Mm
Height	87.5 Mm

Control type	Without test button
Depth	83.5 Mm
Net weight	0.042 Kg
Device presentation	Complete product
[Ui] rated insulation voltage	60 V

Environment

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

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.000 Cm
Package 1 Width	8.600 Cm
Package 1 Length	9.300 Cm
Package 1 Weight	85.000 G
Unit Type of Package 2	S02
Number of Units in Package 2	72
Package 2 Height	15 Cm
Package 2 Width	30 Cm
Package 2 Length	40 Cm
Package 2 Weight	6.524 Kg

Offer Sustainability

Recyclability potential, in %	94
Total lifecycle Carbon footprint	4 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	0.3242329468944113
Carbon footprint of the manufacturing phase [A1 to A3]	0.3 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.003673134463102567
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.0017214034457092992
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	3.405078226601206
Carbon footprint of the use phase [B2, B3, B4, B6]	3 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.07793564035534604
Carbon footprint of the end-of-life phase [C1 to C4]	0.1 kg CO2 eq.
Total lifecycle Carbon footprint	4
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which
Take-back	No

Contractual warranty

Warranty (in months)	18

Product Life Status :	Commercialised