

SSL1A12BDPR

Solid state relay pre assembled, 2 A, zero voltage switching, spring sockets, input 16...30 V DC, output 24...250 V AC



Main

Range of product	Harmony Relay
Product or component type	Solid state relay
Device short name	SSL
Network number of phases	1 phase

Complementary

Mounting support	Spring socket
[In] rated current	2 A
[Uc] control circuit voltage	16...30 V DC
Contacts type and configuration	1 NO
CLAMPING FORCE	10...40 N.m
Connections - terminals	Flexible cable with cable end, clamping capacity: 0.2...1.5 mm ² (AWG 24...AWG 16) Solid cable with cable end, clamping capacity: 0.2...1.5 mm ² (AWG 24...AWG 16)
Capacitance unbalance	1.5 pF input/output
Minimum switching voltage	16 V DC turn-on
Maximum switching voltage	5 V DC turn-off
Input impedance	3.43 kOhm
Solid state output type	Zero voltage switching SCR output
Load current	0.07...2 A
Transient Overvoltage	600 V AC
Surge current	120 A for 16.6 ms 115 A for 20 ms
Maximum voltage drop	<1.1 V on-state
Maximum I ² t for fusing	285 A ² .S for 10 ms at 50 Hz 260 A ² .s for 8.3 ms at 60 Hz
Maximum leakage current	4 mA off-state
DV/dt	500 V/μs off-state at maximum voltage
Response time	0.5 cycle (turn-on) 0.5 cycle (turn-off)
Overvoltage category	III
Width	6.2 mm
Height	104.6 mm
Depth	79.5 mm
Net weight	0.0285 kg

Environment

Flame retardance	V0 conforming to UL 94
Dielectric strength	2500 V for input/output
Pollution degree	2
Standards	IEC 60950-1 IEC 61000 IEC 62314 IEC 61984 EN 61984
Product certifications	UL REACH CSA CE RoHS UL 508 CSA22.2 No. 14-10 GOST
Marking	CURus CSA CE China RoHS EAC
IP degree of protection	IP20
Ambient air temperature for operation	-20...70 °C
Ambient air temperature for storage	-20...85 °C

Packing Units

Package 1 Weight	33.000 g
Package 1 Height	100.400 mm
Package 1 width	6.250 mm
Package 1 Length	79.000 mm

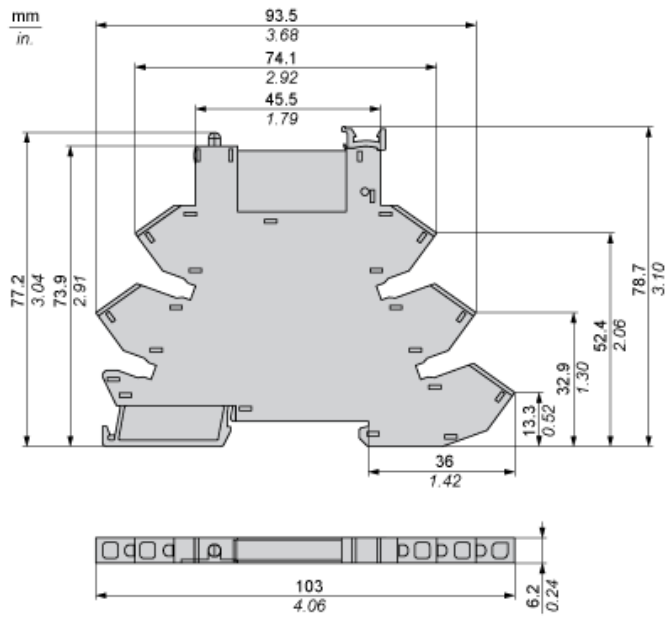
Offer Sustainability

EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

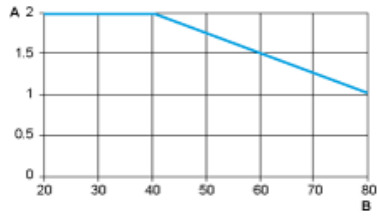
Contractual warranty

Warranty	18 Months
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Dimensions



Derating Curves



A : Load Current (Amperes)
B : Ambient Temperature (°C)