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Specification Sheet

Revision Date: 10/06/10

Altronics Part Number	Description	Supplier Ordering Info
S 4140B	Relay Micro 12V 3A PC SPDT	N4100 1C12V ROHS
S 4142B	Relay Micro 24V 3A PC SPDT	N4100 1C24V ROHS

Features

- Low coil power consumption.
- High sensitivity.
- Small size, light weight.
- PC board mounting.
- Suitable for automation facilities, telecommunication equipment, household electrical appliance, wireless radio remote control, sound control toys application etc.

Contact Arrangement		1C（SPDT(B-M)）	
Contact Material		Ag AgNi	
Contact Rating（resistive）		3A/30VDC,125VAC	
Max. Switching Power		150W 625VA	
Max. Switching Voltage		60VDC 220VAC	Max. Switching Current: 5A
Contact Resistance or Voltage drop		≤50mΩ	Item4 .12 of IEC 61810-7
Operational life	Electrical	10^5	Item 4 .30 of IEC 61810-7
	Mechanical	10^7	Item 4.31 of IEC 61810-7

Coil Parameter

Part Number	Coil voltage VDC		Coil resistance Ω ±10%	Pickup voltage VDC(max) (75%of rated voltage)	Release voltage VDC(min) (10% of rated voltage)	Coil power consumption W	Operate Time ms	Release Time ms
	Rated	Max						
S 4140B S 4142B	12 24	13.2 26.5	400 1600	9.00 18.0	1.2 2.4	0.36	≤5	≤5

CAUTION: 1.The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.
2.Pickup and release voltage are for test purposes only and are not to be used as design criteria.

Operation condition

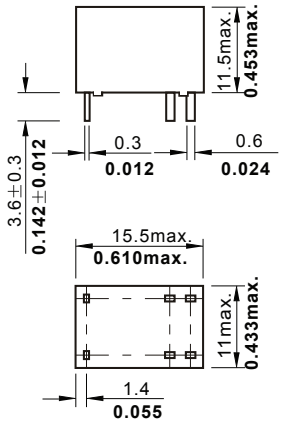
Insulation Resistance	100MΩ min (at 500VDC)	Item 7 of IEC 60255-5
Dielectric Strength Between contacts Between contact and coil	 50Hz 500V 50Hz 1000V	 Item 6 of IEC 60255-5 Item 6 of IEC 60255-5
Shock resistance	100m/s² 11ms	IEC 68-2-27 Test Ea
Vibration resistance	10~55Hz double amplitude 1.5mm	IEC 68-2-6 Test Fc
Terminals strength	5N	IEC 68-2-21 Test Ua1
Solderability	235℃ ±2℃ 3±0.5s	IEC 68-2-20 Test Ta method 1
Ambient Temperature	-25~70℃	
Relative Humidity	85% (at 40℃)	IEC 68-2-3 Test Ca
Mass	3.5g	

Safety approvals

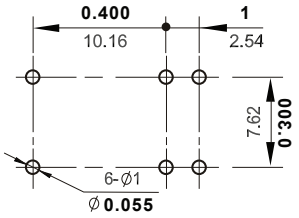
Safety approval	UL&CUR	TüV
Load	5A/125VAC 5A/30VDC 5A/14VDC	2A/250VAC 5A/30VDC

Dimensions

mm/inch

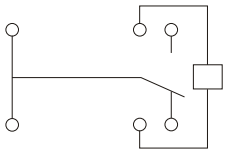


Dimensions



N4100

Mounting (Bottom view)



N4100

Wiring diagram
(Bottom view)

NOTES 1).Dimensions are in millimeters.
2).Inch equivalents are given for general information only.

Reference Data