Product datasheet Characteristics

RSL1PVBU

slim relay mounted on screw socket with LED and protection circuit, 24 V



Price* : 16.54 GBP



Main

Range of product	Zelio Relay
Series name	Interface relay
Product or component type	Plug-in relay
Device short name	RSL
Contacts type and composition	1 C/O
Contact operation	Standard
[Uc] control circuit voltage	24 V DC
[Ithe] conventional enclosed thermal current	6 A at -4055 °C
Status LED	With
Shape of pin	Flat (PCB type)

Complementary

Fixing mode	Plastic compression spring	
Average resistance	3390 Ohm network: DC at 23 °C +/- 10 %	000
[Ui] rated insulation voltage	250 V conforming to EN/IEC 277 V conforming to cUL	of etitists fo
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC	
Contacts material	Silver alloy (AgSnO2)	ק אַ
[le] rated operational current	6 A 1 C/O (AC-1/DC-1) conforming to IEC/UL	tende
Minimum switching current	100 mA	not in
Maximum switching voltage	277 V	. uc
Switching voltage	12 V	ntatic
Maximum switching capacity	1500 VA 150 W	docume
Minimum switching capacity	120 mW	This
Operating rate	<= 72000 cycles/hour no-load <= 360 cycles/hour under load	sclaimer

Electrical durability 60000 cycles for resistive load, 6 A at 250 V, AC-1 Operating time 5 ms reset 12 ms Marking CE Protection category RT III Test levels Level A group mounting Operating position Any position Height 78.6 mm Width 6.2 mm Depth 95 mm Terminals description ISO n°1 (A1-A2)CO (11-12-14)OC Sale per indivisible quantity 10 Net weight 0.029 kg Load current 6 A at 250 V AC 0.5 mm mounting distance Average coil consumption 0.17 W, DC Drop-out voltage threshold Contact terminal arrangement Separate Connections - terminals Screw connectors, 1 x 0.21 x 2.5 mm² (AWG 24AWG 14) flexible with cable end Screw connectors, 1 x 0.21 x 2.5 mm² (AWG 24AWG 14) solid without cable end Tightening torque < 0.5 N.m for M2.5 screw(s) Safety reliability data B10d = 60000 Mounting support Sem symmetrical DIN rail	Mechanical durability	10000000 cycles
Marking CE Protection category RT III Test levels Level A group mounting Operating position Any position Height 78.6 mm Width 6.2 mm Depth 95 mm Terminals description ISO n°1 (A1-A2)CO (11-12-14)OC Sale per indivisible quantity 10 Net weight 0.029 kg Load current 6 A at 250 V AC 0.5 mm mounting distance Average coil consumption 0.17 W, DC Drop-out voltage threshold >= 0.05 Uc Contact terminal arrangement Separate Connections - terminals Screw connectors, 1 x 0.21 x 2.5 mm² (AWG 24AWG 14) flexible with cable end Screw connectors, 1 x 0.21 x 2.5 mm² (AWG 24AWG 14) solid without cable end Tightening torque < 0.5 N.m for M2.5 screw(s) Safety reliability data B10d = 60000 Mounting support 35 mm symmetrical DIN rail	Electrical durability	60000 cycles for resistive load, 6 A at 250 V, AC-1
Protection category RT III Test levels Level A group mounting Operating position Any position Height 78.6 mm Width 6.2 mm Depth 95 mm Terminals description ISO n°1 (A1-A2)CO (11-12-14)OC Sale per indivisible quantity 10 Net weight 0.029 kg Load current 6 A at 250 V AC 0.5 mm mounting distance Average coil consumption 0.17 W, DC Drop-out voltage threshold >= 0.05 Uc Contact terminal arrangement Separate Connections - terminals Screw connectors, 1 x 0.21 x 2.5 mm² (AWG 24AWG 14) flexible with cable end Screw connectors, 1 x 0.21 x 2.5 mm² (AWG 24AWG 14) solid without cable end Tightening torque < 0.5 N.m for M2.5 screw(s) Safety reliability data B10d = 60000 Control type Without push-button Mounting support 35 mm symmetrical DIN rail	Operating time	
Test levels Level A group mounting Operating position Any position Height 78.6 mm Width 6.2 mm Depth 95 mm Terminals description ISO n°1 (A1-A2)CO (11-12-14)OC Sale per indivisible quantity 10 Net weight 0.029 kg Load current 6 A at 250 V AC 0.5 mm mounting distance Average coil consumption 0.17 W, DC Drop-out voltage threshold >= 0.05 Uc Contact terminal arrangement Separate Connections - terminals Screw connectors, 1 x 0.21 x 2.5 mm² (AWG 24AWG 14) flexible with cable end Screw connectors, 1 x 0.21 x 2.5 mm² (AWG 24AWG 14) solid without cable end Tightening torque < 0.5 N.m for M2.5 screw(s) Safety reliability data B10d = 60000 Control type Without push-button Mounting support 35 mm symmetrical DIN rail	Marking	CE
Operating position Any position Height 78.6 mm Width 6.2 mm Depth 95 mm Terminals description ISO n°1 (A1-A2)CO (11-12-14)OC Sale per indivisible quantity 10 Net weight 0.029 kg Load current 6 A at 250 V AC 0.5 mm mounting distance Average coil consumption 0.17 W, DC Drop-out voltage threshold >= 0.05 Uc Contact terminal arrangement Separate Connections - terminals Screw connectors, 1 x 0.21 x 2.5 mm² (AWG 24AWG 14) flexible with cable end Screw connectors, 1 x 0.21 x 2.5 mm² (AWG 24AWG 14) solid without cable end Tightening torque < 0.5 N.m for M2.5 screw(s) Safety reliability data B10d = 60000 Control type Without push-button Mounting support 35 mm symmetrical DIN rail	Protection category	RT III
Height 78.6 mm Width 6.2 mm Depth 95 mm Terminals description ISO n°1 (A1-A2)CO (11-12-14)OC Sale per indivisible quantity 10 Net weight 0.029 kg Load current 6 A at 250 V AC 0.5 mm mounting distance Average coil consumption 0.17 W, DC Drop-out voltage threshold >= 0.05 Uc Contact terminal arrangement Separate Connections - terminals Screw connectors, 1 x 0.21 x 2.5 mm² (AWG 24AWG 14) flexible with cable end Screw connectors, 1 x 0.21 x 2.5 mm² (AWG 24AWG 14) solid without cable end Tightening torque < 0.5 N.m for M2.5 screw(s) Safety reliability data B10d = 60000 Control type Without push-button Mounting support 35 mm symmetrical DIN rail	Test levels	Level A group mounting
Width 6.2 mm Depth 95 mm Terminals description ISO n°1 (A1-A2)CO (11-12-14)OC Sale per indivisible quantity 10 Net weight 0.029 kg Load current 6 A at 250 V AC 0.5 mm mounting distance Average coil consumption 0.17 W, DC Drop-out voltage threshold >= 0.05 Uc Contact terminal arrangement Separate Connections - terminals Screw connectors, 1 x 0.21 x 2.5 mm² (AWG 24AWG 14) flexible with cable end Screw connectors, 1 x 0.21 x 2.5 mm² (AWG 24AWG 14) solid without cable end Tightening torque < 0.5 N.m for M2.5 screw(s)	Operating position	Any position
Depth 95 mm Terminals description ISO n°1 (A1-A2)CO (11-12-14)OC Sale per indivisible quantity 10 Net weight 0.029 kg Load current 6 A at 250 V AC 0.5 mm mounting distance Average coil consumption 0.17 W, DC Drop-out voltage threshold >= 0.05 Uc Contact terminal arrangement Separate Connections - terminals Screw connectors, 1 x 0.21 x 2.5 mm² (AWG 24AWG 14) flexible with cable end Screw connectors, 1 x 0.21 x 2.5 mm² (AWG 24AWG 14) solid without cable end Tightening torque < 0.5 N.m for M2.5 screw(s) Safety reliability data B10d = 60000 Control type Without push-button Mounting support 35 mm symmetrical DIN rail	Height	78.6 mm
Terminals description ISO n°1 (A1-A2)CO (11-12-14)OC Sale per indivisible quantity 10 Net weight 0.029 kg Load current 6 A at 250 V AC 0.5 mm mounting distance Average coil consumption 0.17 W, DC Drop-out voltage threshold >= 0.05 Uc Contact terminal arrangement Separate Connections - terminals Screw connectors, 1 x 0.21 x 2.5 mm² (AWG 24AWG 14) flexible with cable end Screw connectors, 1 x 0.21 x 2.5 mm² (AWG 24AWG 14) solid without cable end Tightening torque < 0.5 N.m for M2.5 screw(s) Safety reliability data B10d = 60000 Control type Without push-button Mounting support 35 mm symmetrical DIN rail	Width	6.2 mm
Sale per indivisible quantity Net weight 0.029 kg Load current 6 A at 250 V AC 0.5 mm mounting distance Average coil consumption 0.17 W, DC Drop-out voltage threshold >= 0.05 Uc Contact terminal arrangement Separate Connections - terminals Screw connectors, 1 x 0.21 x 2.5 mm² (AWG 24AWG 14) flexible with cable end Screw connectors, 1 x 0.21 x 2.5 mm² (AWG 24AWG 14) solid without cable end Tightening torque < 0.5 N.m for M2.5 screw(s) Safety reliability data B10d = 60000 Control type Without push-button Mounting support 35 mm symmetrical DIN rail	Depth	95 mm
Net weight 0.029 kg Load current 6 A at 250 V AC 0.5 mm mounting distance Average coil consumption 0.17 W, DC Drop-out voltage threshold >= 0.05 Uc Contact terminal arrangement Separate Connections - terminals Screw connectors, 1 x 0.21 x 2.5 mm² (AWG 24AWG 14) flexible with cable end Screw connectors, 1 x 0.21 x 2.5 mm² (AWG 24AWG 14) solid without cable end Tightening torque < 0.5 N.m for M2.5 screw(s) Safety reliability data B10d = 60000 Control type Without push-button Mounting support 35 mm symmetrical DIN rail	Terminals description ISO n°1	
Load current 6 A at 250 V AC 0.5 mm mounting distance Average coil consumption 0.17 W, DC Drop-out voltage threshold >= 0.05 Uc Contact terminal arrangement Separate Connections - terminals Screw connectors, 1 x 0.21 x 2.5 mm² (AWG 24AWG 14) flexible with cable end Screw connectors, 1 x 0.21 x 2.5 mm² (AWG 24AWG 14) solid without cable end Tightening torque < 0.5 N.m for M2.5 screw(s) Safety reliability data B10d = 60000 Control type Without push-button Mounting support 35 mm symmetrical DIN rail	Sale per indivisible quantity	10
Average coil consumption Drop-out voltage threshold >= 0.05 Uc Contact terminal arrangement Separate Connections - terminals Screw connectors, 1 x 0.21 x 2.5 mm² (AWG 24AWG 14) flexible with cable end Screw connectors, 1 x 0.21 x 2.5 mm² (AWG 24AWG 14) solid without cable end Tightening torque < 0.5 N.m for M2.5 screw(s) Safety reliability data B10d = 60000 Control type Without push-button Mounting support 35 mm symmetrical DIN rail	Net weight	0.029 kg
Drop-out voltage threshold >= 0.05 Uc Contact terminal arrangement Separate Connections - terminals Screw connectors, 1 x 0.21 x 2.5 mm² (AWG 24AWG 14) flexible with cable end Screw connectors, 1 x 0.21 x 2.5 mm² (AWG 24AWG 14) solid without cable end Tightening torque < 0.5 N.m for M2.5 screw(s) Safety reliability data B10d = 60000 Control type Without push-button Mounting support 35 mm symmetrical DIN rail	Load current	6 A at 250 V AC 0.5 mm mounting distance
Contact terminal arrangement Separate Connections - terminals Screw connectors, 1 x 0.21 x 2.5 mm² (AWG 24AWG 14) flexible with cable end Screw connectors, 1 x 0.21 x 2.5 mm² (AWG 24AWG 14) solid without cable end Tightening torque < 0.5 N.m for M2.5 screw(s) Safety reliability data B10d = 60000 Control type Without push-button Mounting support 35 mm symmetrical DIN rail	Average coil consumption	0.17 W, DC
Connections - terminals Screw connectors, 1 x 0.21 x 2.5 mm² (AWG 24AWG 14) flexible with cable end Screw connectors, 1 x 0.21 x 2.5 mm² (AWG 24AWG 14) solid without cable end Tightening torque < 0.5 N.m for M2.5 screw(s) Safety reliability data B10d = 60000 Control type Without push-button Mounting support 35 mm symmetrical DIN rail	Drop-out voltage threshold	>= 0.05 Uc
Screw connectors, 1 x 0.21 x 2.5 mm² (AWG 24AWG 14) solid without cable end Tightening torque < 0.5 N.m for M2.5 screw(s) Safety reliability data B10d = 60000 Control type Without push-button Mounting support 35 mm symmetrical DIN rail	Contact terminal arrangement	Separate
Safety reliability data B10d = 60000 Control type Without push-button Mounting support 35 mm symmetrical DIN rail	Connections - terminals	
Control type Without push-button Mounting support 35 mm symmetrical DIN rail	Tightening torque	< 0.5 N.m for M2.5 screw(s)
Mounting support 35 mm symmetrical DIN rail	Safety reliability data	B10d = 60000
<u> </u>	Control type	Without push-button
De Secondation Outside and of	Mounting support	35 mm symmetrical DIN rail
Device presentation Complete product	Device presentation	Complete product

Environment

2	
Input voltage	24 V AC/DC (input voltage limit: 21.628.8 V)
Dielectric strength	1000 V AC between contacts 4000 V AC between coil and contact
Standards	CSA C22.2 No 14 UL 508 EN/IEC 61810-1
Product certifications	UL GOST CSA
Ambient air temperature for storage	-4085 °C
Vibration resistance	10 gn, amplitude = +/- 1 mm (f = 10150 Hz)10 cycles not operating conforming to EN/IEC 60068-2-6 5 gn, amplitude = +/- 1 mm (f = 10150 Hz)10 cycles in operation conforming to EN/IEC 60068-2-6
IP degree of protection	IP40 conforming to EN/IEC 60529
Shock resistance	10 gn (duration = 11 ms) for in operation conforming to EN/IEC 60068-2-27 5 gn (duration = 11 ms) for not operating conforming to EN/IEC 60068-2-27
Ambient air temperature for operation	-4055 °C

Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Not applicable, out of EU RoHS legal scope EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	Download RoHS China 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

Product datasheet Dimensions Drawings

RSL1PVBU

Dimensions

