

Product availability: Stock - Normally stocked in distribution facility



## Main

Range of product	Zelio Relay
Series name	Power
Product or component type	Plug-in relay
Device short name	RPF
Contacts type and composition	2 C/O
[Uc] control circuit voltage	12 V DC
Control type	Without lockable test button
Shape of pin	Flat
Contacts material	Silver tin oxide
[Ithe] conventional enclosed thermal current	25 A at -40...131 °F (-40...55 °C) relays side by side without a gap 30 A at -40...131 °F (-40...55 °C) 13 mm gap between two relays
Resistive rated load	25 A at 28 V DC 30 A at 250 V AC
Utilisation coefficient	10 %

## Complementary

Mounting support	DIN rail Panel
Control circuit voltage limits	9.6...13.2 V
[Ie] rated operational current	30 A at 250 V AC (for NO) conforming to IEC 30 A at 277 V AC (for NO) conforming to UL 20 A at 28 V DC (for NO) conforming to UL 3 A at 250 V AC (for NC) conforming to IEC 3 A at 28 V DC (for NC) conforming to IEC 3 A at 277 V AC (for NC) conforming to UL 3 A at 28 V DC (for NC) conforming to UL 25 A at 28 V DC (for NO) conforming to IEC
[Ui] rated insulation voltage	250 V conforming to IEC 300 V conforming to UL
[Uimp] rated impulse withstand voltage	4 kV 1.2/50 µs
Maximum switching voltage	250 V conforming to IEC
Maximum switching capacity	7500 VA/700 W
Minimum recommended switching capacity	6000 mW (500 mA/ 12 V) NO 170 mW (10 mA/ 6 V) NC
Operating rate	<= 18000 cycles/hour no-load <= 1200 cycles/hour under load
Mechanical durability	5000000 cycles
Electrical durability	100000 cycles resistive load
Average coil consumption	1.7 W
Drop-out voltage threshold	>= 0.1 Uc
Operate time	25 ms
Release time	25 ms
Average resistance	86 Ohm (tolerance +/- 10 %) at 68 °F (20 °C)
Safety reliability data	B10d = 100000
Protection category	RT II
Test levels	Level A group mounting

Operating position	Any position
Product weight	0.18 lb(US) (0.082 kg)
Device presentation	Complete product

## Environment

Dielectric strength	2000 V AC between poles with basic insulation 1500 V AC between contacts with micro disconnection insulation 4000 V AC between coil and contact with reinforced insulation
Standards	EN/IEC 61810-1 UL 508 CSA C22.2 No 14
Product certifications	CE CSA GOST UL
Ambient air temperature for storage	-40...185 °F (-40...85 °C)
Ambient air temperature for operation	-40...131 °F (-40...55 °C)
Vibration resistance	3 gn (+/- 1 mm, f = 10...150 Hz) 5 cycles in operation 10 gn (+/- 1 mm, f = 10...150 Hz) 5 cycles not operating
IP degree of protection	IP40 conforming to EN/IEC 60529
Shock resistance	10 gn in operation 30 gn not operating
Pollution degree	3

## Ordering and shipping details

Category	21127 - ZELIO ICE CUBE RELAYS
Discount Schedule	CP2
GTIN	00785901597056
Nbr. of units in pkg.	10
Package weight(Lbs)	0.19
Returnability	Y
Country of origin	CN

## Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0801 - Schneider Electric declaration of conformity <a href="#">Schneider Electric declaration of conformity</a>
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Need no specific recycling operations
California proposition 65	WARNING: This product can expose you to chemicals including:
----- Substance 1	Nickel compounds, which is known to the State of California to cause cancer, and
----- Substance 2	Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm.
----- More information	For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>

## Contractual warranty

Warranty period	18 months
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**mm**

**in.**

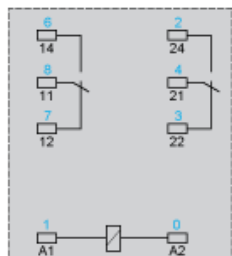
Side View Dimensions:

- Total Width: 68.5 mm (2.70 in.)
- Total Length: 39.05 mm (1.54 in.)
- Top Flange Thickness: 8.85 mm (0.35 in.)
- Mounting Hole Diameter: 6.3 mm (0.25 in.)
- Mounting Hole Position from Left Edge: 3.0 mm (0.12 in.)
- Mounting Hole Position from Right Edge: 3.0 mm (0.12 in.)
- Central Slot Width: 30 mm (1.18 in.)
- Central Slot Depth: 1.78 mm (0.07 in.)

Front View Dimensions:

- Total Height: 52 mm (2.05 in.)
- Top Flange Thickness: 8.85 mm (0.35 in.)
- Internal Feature Height: 3.6 mm (0.14 in.)
- Internal Feature Width: 7.4 mm (0.29 in.)
- Bottom Flange Thickness: 4.15 mm (0.16 in.)
- Overall Width: 33.7 mm (1.33 in.)
- Internal Feature Spacing: 11.48 mm (0.45 in.)
- Internal Feature Width: 18.48 mm (0.73 in.)
- Bottom Flange Width: 59.8 mm (2.35 in.)
- Bottom Flange Thickness: 2.35 mm (0.09 in.)
- Bottom Flange Width: 2 x Ø 4.5
- Bottom Flange Thickness: 2 x Ø 0.18

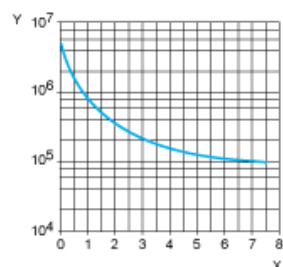
## Wiring Diagram



Symbols shown in blue correspond to Nema marking.

## Electrical Durability of Contacts

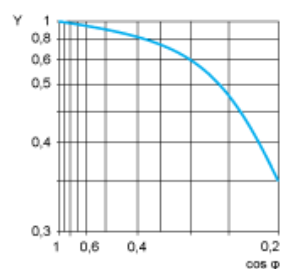
### AC Resistive load



X Switching capacity (kVA)  
Y Durability (number of operating cycles)

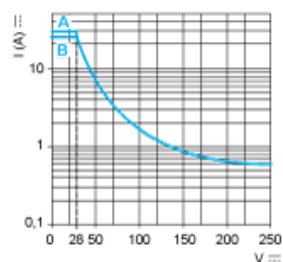
### AC Reduction coefficient for inductive load (depending on power factor $\cos \phi$ )

Durability (inductive load) = durability (resistive load) x reduction coefficient.



Y reduction coefficient

### Maximum switching capacity on DC resistive load



A 30 A  
B 25 A

Note : These are typical curves, actual durability depends on load, environment, duty cycle, etc.

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