Product datasheet Characteristics

Schneide

RUMC32ND



Range of product	Zelio Relay
Series name	Universal
Product or component type	Plug-in relay
Device short name	RUM
Contacts type and composition	3 C/O
[Uc] control circuit voltage	60 V DC
[Ithe] conventional enclosed thermal current	10 A at -40131 °F (-4055 °C)
Status LED	With
Control type	Lockable test button
Utilisation coefficient	20 %

Complementary

Shape of pin	Cylindrical	
[Ui] rated insulation voltage	250 V conforming to IEC 300 V conforming to UL 300 V conforming to CSA	
[Uimp] rated impulse withstand voltage	4 kV (1.2/50 μs)	
Contacts material	AgNi	
[le] rated operational current	10 A at 28 V DC (NO) conforming to IEC 10 A at 250 V AC (NO) conforming to IEC 5 A at 28 V DC (NC) conforming to IEC 5 A at 250 V AC (NC) conforming to IEC 10 A at 30 V DC conforming to UL 10 A at 277 V AC conforming to UL 10 A at 30 V DC conforming to CSA 10 A at 277 V AC (same polarity) conforming to CSA	
Maximum switching voltage	250 V conforming to IEC	
Load current	10 A at 250 V AC 10 A at 28 V DC	
Maximum switching capacity	2500 VA/280 W	
Minimum switching capacity	170 mW at 10 mA, 17 V	
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	1.4 W	
Drop-out voltage threshold	>= 0.1 Uc DC	
Operating time	20 ms at nominal voltage	
Reset time	20 ms at nominal voltage	
Average resistance	2790 Ohm at 20 °C +/- 15 %	
Rated operational voltage limits	4866 V DC	
Protection category	RTI	
Safety reliability data	B10d = 100000	
Operating position	Any position	
Product weight	0.19 lb(US) (0.086 kg)	
Device presentation	Complete product	

Environment

dielectric strength

2000 V AC between poles with basic insulation

Green Premium



	1500 V AC between contacts with micro disconnection insulation 2500 V AC between coil and contact with reinforced insulation
product certifications	CSA RoHS UL REACH EAC
standards	EN/IEC 61810-1 UL 508 CSA C22.2 No 14
ambient air temperature for storage	-40185 °F (-4085 °C)
ambient air temperature for operation	-40131 °F (-4055 °C)
vibration resistance	3 gn (f = 10150 Hz), amplitude +/- 1 mm (on 5 cycles in operation) 4 gn (f = 10150 Hz), amplitude +/- 1 mm (on 5 cycles not operating)
IP degree of protection	IP40
shock resistance	10 gn 11 ms in operation conforming to EN/IEC 60068-2-27 10 gn 11 ms not operating conforming to EN/IEC 60068-2-27
pollution degree	2

Offer Sustainability

Green Premium product	Green Premium product
Compliant - since 1430 - Schneider Electric declaration of conformity	Compliant - since 1430 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
Available	Available
Need no specific recycling operations	Need no specific recycling operations
WARNING: This product can expose you to chemicals including:	WARNING: This product can expose you to chemicals including:
Nickel compounds, which is known to the State of California to cause cancer, and	Nickel compounds, which is known to the State of California to cause cancer, and
Di-isodecyl phthalate (DIDP), which is known to the Stat of California to cause birth defects or other reproductive harm.	eDi-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm.

For more information go to www.p65warnings.ca.gov For more information go to www.p65warnings.ca.gov

Dimensions



Wiring Diagram



Wiring Diagram



Symbols shown in blue correspond to Nema marking.



Electrical Durability of Contacts

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

Resistive AC load



- X Switching capacity (kVA)
- Y Durability (Number of operating cycles)

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



Y Reduction coefficient (A)

Maximum switching capacity on resistive DC load



- X Voltage DC
- Y Current DC

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

