Disclaimer. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications



Power plug-in relay, 15 A, 4 CO, with LED, 24 V DC

Local distributor code: 389835747

RPM42BD

EAN Code: 3389119402217

Main

Range of product	Harmony Electromechanical Relays	
Series name	RPM series	
Product or component type	Plug-in relay	
Contacts type and composition	4 C/O	
Relay type	Power relay	
status LED	With	
[Uc] control circuit voltage	24 V DC	
Minimum switching capacity	170 mW at 10 mA, 17 V	
Release time	20 ms at nominal voltage	
Ambient air temperature for operation	-4055 °C	
[Ithe] conventional enclosed thermal current	15 A at -4055 °C	

Complementary

control type	Lockable test button	
[le] rated operational current	15 A at 277 V (AC) conforming to UL	
	15 A at 28 V (DC) conforming to UL	
	15 A at 250 V (AC) NO conforming to IEC	
	15 A at 28 V (DC) NO conforming to IEC	
	7.5 A at 250 V (AC) NC conforming to IEC	
	7.5 A at 28 V (DC) NC conforming to IEC	
Degree of protection (Housing only)	IP40 conforming to IEC 60529	
Rated operational voltage limits	19.226.4 V DC	
[Ui] rated insulation voltage	250 V conforming to IEC	
	300 V conforming to CSA	
	300 V conforming to UL	
Maximum switching voltage	250 V conforming to IEC	
Drop-out voltage threshold	>= 0.1 Uc DC	
Maximum switching capacity	3750 VA	
	420 W	
Mechanical durability	10000000 cycles	
Electrical durability	100000 cycles for resistive load	
Safety reliability data	B10d = 100000	
Operating rate	<= 1200 cycles/hour under load	
	<= 18000 cycles/hour no-load	
Utilisation coefficient	20 %	

Dielectric strength	1500 V AC between contacts with micro disconnection 2000 V AC between coil and contact with reinforced 2000 V AC between poles with basic	
[Uimp] rated impulse withstand voltage	4 kV during 1.2/50 μs	
Protection category	RTI	
Mounting support	Plug-in	
Operating position	Any position	
Test levels	Level A group mounting	
Device presentation	Complete product	
Contacts material	AgNi	
Shape of pin	Flat (faston type)	
Net weight	0.071 kg	

Environment

Pollution degree	3	
Standards	IEC 61810-1 CSA C22.2 No 14 UL 508	
Product certifications	EAC CSA UL	
Ambient air temperature for storage	-4085 °C	
Vibration resistance	3 gn, amplitude = +/- 1 mm (f = 10150 Hz)5 cycles in operation 5 gn, amplitude = +/- 1 mm (f = 10150 Hz)5 cycles not operating	
Shock resistance	15 gn for in operation 30 gn for not operating	

Packing Units

PCE
1
4.700 cm
4.000 cm
2.800 cm
72.000 g
BB1
10
3.000 cm
10.500 cm
22.500 cm
769.000 g
S02
120
15.000 cm
30.000 cm
40.000 cm

Package 3 Weight 9.671 kg

Logistical informations

Country of origin CN

Contractual warranty

Warranty 18 months



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	26
Environmental Disclosure	Product Environmental Profile

Use Better

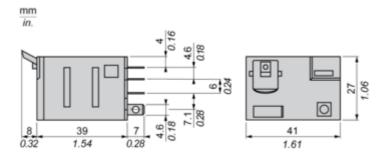
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
REACh Regulation	REACh Declaration

Use Again

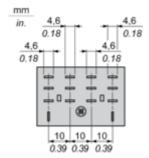
○ Repack and remanufacture	
Circularity Profile	No need of specific recycling operations
Take-back	No
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Dimensions Drawings

Dimensions

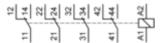


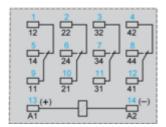
Pin Side View



Connections and Schema

Wiring Diagram



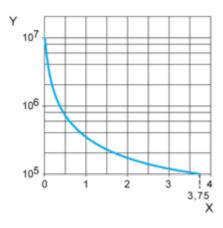


Symbols shown in blue correspond to Nema marking.

Performance Curves

Electrical Durability of Contacts

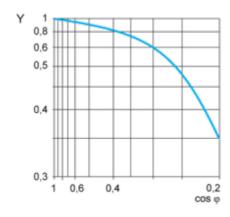
Durability (inductive load) = durability (resistive load) x reduction coefficient. Resistive AC load



X Switching capacity (kVA)

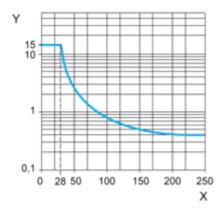
Y Durability (Number of operating cycles)

Reduction coefficient for inductive AC load (depending on power factor cos φ)



Y Reduction coefficient (A)

Maximum switching capacity on resistive DC load



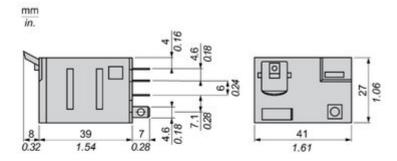
X Voltage DC

Y Current DC

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

Technical Illustration

Dimensions



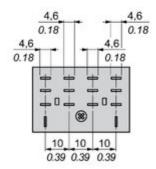


Image of product / Alternate images

Alternative





