Product data sheet Characteristics

RSB2A080BDPV

Harmony, Interface plug-in relay preassembled, 8 A, 2 CO, with LED, with protection circuit, 24 V DC



Main

TVI CALL	
Range of product	Harmony Electromechanical Relays
Series name	Interface relay
Product or component type	Pre-assembled plug-in relay with socket
Device short name	RSB
Contacts type and composition	2 C/O
Contact operation	Standard
[Uc] control circuit voltage	24 V DC
[Ithe] conventional enclosed thermal current	8 A at -4040 °C
Status LED	1 LED
Control type	Without

Complementary

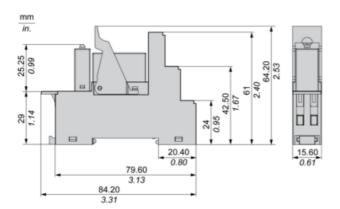
Average coil resistance	1440 Ohm network: DC at 20 °C +/- 15 %
[Ue] rated operational voltage	19.226.4 V DC
[Ui] rated insulation voltage	400 V conforming to EN/IEC 60947
[Uimp] rated impulse withstand voltage	IEC 61000-4-5 3.6 kV
Contacts material	Silver alloy (AgNi)
[le] rated operational current	4 A (AC-1/DC-1) NC conforming to IEC 8 A (AC-1/DC-1) NO conforming to IEC
Minimum switching current	10 mA
Maximum switching voltage	300 V DC conforming to IEC
Minimum switching voltage	12 V
Maximum switching capacity	2000 VA AC 224 W DC
Resistive rated load	8 A at 250 V AC 8 A at 28 V DC
Minimum switching capacity	120 mW at 10 mA, 12 V
Operating rate	<= 600 cycles/hour under load <= 18000 cycles/hour no-load
Mechanical durability	30000000 cycles
Electrical durability	100000 Cycles, 8 A at 250 V, AC-1 NO 100000 cycles, 4 A at 250 V, AC-1 NC
Operating time	20 ms operating 20 ms reset
Average coil consumption	0.45 W DC
Drop-out voltage threshold	>= 0.1 Uc DC
Safety reliability data	B10d = 100000
Protection category	RTI
Test levels	Level A group mounting
Operating position	Any position
Torque value	0.8 N.M 0.79 N.m

Device presentation Complete product Environment Dielectric strength 1000 V AC between contacts 2500 V AC between poles 5000 V AC between coil and contact Standards ENIEC 61810-1 CSA C22.2 No 14 UL 508 IEC 61984 Product certifications CE UL CSA EAC Anhient air temperature for storage 4085 °C Vibration resistance 1-1 mm (= 1055 Hz) conforming to ENIEC 60068-2-6 IP20 conforming to ENIEC 60068-2-6 IP20 conforming to ENIEC 60068-2-7 Shock resistance 10 gn (duration = 11 ms) for not operating conforming to ENIEC 60068-2-27 Anhient air temperature for operation 4085 °C (DC) Packing Units Package 1 Weight 60.000 g Package 1 Weight 64.200 mm Package 1 Height 84.200 mm Package 1 Length 64.200 mm Offer Sustainability EU ROHS Directive Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration Toxic heavy metal free Yes Mercury free Yes RoHS exemption information © Yes RoHS Regulation © China RoHS Declaration Environmental Disclosure Product Environmental Profile The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	Connections - terminals	Connector, 1 x 0.251 x 2.5 mm² (AWG 22AWG 14) flexible with cable end Connector, 2 x 0.252 x 1 mm² (AWG 22AWG 17) flexible with cable end Connector, 1 x 0.51 x 2.5 mm² (AWG 20AWG 14) solid without cable end Connector, 2 x 0.52 x 1.5 mm² (AWG 20AWG 16) solid without cable end
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Product data sheet Dimensions Drawings

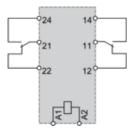
RSB2A080BDPV

Dimensions



Wiring Diagram



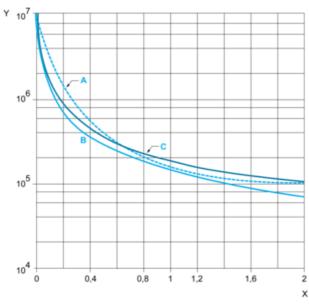


NOTE: For DC input, A1 have to be +, otherwise it would short circuit from protection module

Electrical Durability of Contacts

Durability (Inductive Load) = Durability (Resistive Load) x Reduction Coefficient.

Resistive AC Load



(y) Durability (Number of operating cycles)

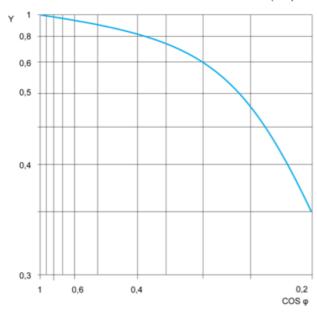
(x) Switching capacity (kVA)

A: RSB2A080●●

B: RSB1A160●●

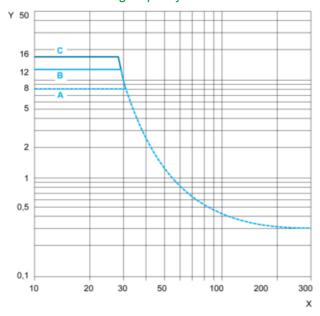
C: RSB1A120●●

Reduction Coefficient for Inductive AC Load (Depending on Power Factor cos φ)



(y) Reduction coefficient (A)

Maximum Switching Capacity on Resistive DC Load



(y) Current DC

(x) Voltage DC

A : RSB2A080●● B : RSB1A160●●

C : RSB1A120●●

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