

Product Datasheet

Characteristic

RSB2A080B7

interface plug-in relay, Harmony
electromechanical relays, 8A, 2CO, 24V
AC



Main

Range of product	Harmony Electromechanical Relays
Series name	Interface relay
product or component type	Plug-in relay
Device short name	RSB
Contacts type and composition	2 C/O
Contact operation	Standard
[Uc] control circuit voltage	24 V AC 50/60 Hz
[Ithe] conventional enclosed thermal current	8 A at -40...40 °C
Status LED	Without
Control type	Without push-button

Complementary

Shape of pin	Flat (PCB type)
Average resistance	368 Ohm network: AC at 20 °C +/- 10 %
[Ue] rated operational voltage	19.2...36 V AC 50/60 Hz
[Ui] rated insulation voltage	400 V conforming to IEC 60947
[Uimp] rated impulse withstand voltage	3.6 kV conforming to IEC 61000-4-5
Contacts material	Silver alloy (AgNi)
[Ie] 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
Switching voltage	12 V
Maximum switching capacity	2000 VA/224 W
Load current	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	5000000 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	0.75 VA AC

Drop-out voltage threshold	$\geq 0.15 U_c$ AC
Safety reliability data	B10d = 100000
Protection category	RT I
Test levels	Level A group mounting
Operating position	Any position
net weight	0.014 kg
Sale per indivisible quantity	10
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	CSA C22.2 No 14 UL 508 IEC 61810-1
Product certifications	UL CSA EAC
Ambient air temperature for storage	-40...85 °C
Vibration resistance	+/- 1 mm (f= 10...55 Hz) conforming to IEC 60068-2-6
IP degree of protection	IP40 conforming to IEC 60529
Shock resistance	10 gn (duration = 11 ms) for not operating conforming to IEC 60068-2-27 5 gn (duration = 11 ms) for in operation conforming to IEC 60068-2-27
Ambient air temperature for operation	-40...70 °C (AC)

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.700 cm
Package 1 Width	2.500 cm
Package 1 Length	31.100 cm
Package 1 Weight	12.000 g
Unit Type of Package 2	BB1
Number of Units in Package 2	10
Package 2 Height	1.700 cm
Package 2 Width	2.500 cm
Package 2 Length	31.100 cm
Package 2 Weight	146.000 g
Unit Type of Package 3	S01
Number of Units in Package 3	350
Package 3 Height	15.000 cm
Package 3 Width	15.000 cm
Package 3 Length	40.000 cm
Package 3 Weight	5.250 kg

Offer Sustainability

REACH Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	X
RoHS exemption information	Yes
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins