Product data sheet
Characteristics

RSB1A160BD
interface plug in relay, Harmony Electromechanical Relays, 16A, 1CO, without LED, without lockable test button, 24V DC



Main

Range of product	Harmony Electromechanical Relays
Series name	RSB series
Product or component type	Plug-in relay
Relay type	Interface relay
Contacts type and composition	1 C/O
Status LED	Without
[Uc] control circuit voltage	24 V DC
Control type	Without lockable test button
[Ithe] conventional enclosed thermal current	16 A at -40…40 °C

Complementary

Average resistance	1440 Ohm network: AC at 20 °C +/- 10 %
[Ue] rated operational voltage	16.8...36 V DC
[Uimp] rated impulse withstand voltage	3.6 KV conforming to IEC 61000-4-5
[Ie] rated operational current	16 A (AC-1/DC-1) NO conforming to IEC 8 A (AC-1/DC-1) NC conforming to IEC
[Ui] rated insulation voltage	400 V conforming to IEC 60947
Maximum switching voltage	300 V DC conforming to IEC
Drop-out voltage threshold	>= 0.1 Uc DC
Load current	16 A at 250 V AC 16 A at 28 V DC
Minimum switching current	10 MA
Maximum switching capacity	4000 VA/448 W
Switching voltage	12 V
Minimum switching capacity	120 mW at 10 mA, 12 V
Operating time	20 ms operating 20 ms reset
Mechanical durability	30000000 Cycles
Electrical durability	100000 Cycles, 16 A at 250 V, AC-1 NO 100000 Cycles, 8 A at 250 V, AC-1 NC
Safety reliability data	B10d = 100000
Operating rate	<= 600 cycles/hour under load <= 18000 cycles/hour no-load
Average coil consumption	0.45 W DC
Presentation of legend	Without
Protection category	RT I
Operating position	Any position

Test levels	Level A group mounting
Device presentation	Complete product
Sale per indivisible quantity	10
Contacts material	Silver alloy (AgNi)
Shape of pin	Flat (PCB type)
Net weight	0.014 Kg
Compatibility code	RSB

Environment

Dielectric strength	1000 V AC between contacts 2500 V AC between poles 5000 V AC between coil and contact
Vibration resistance	+/- 1 mm (f= 10…55 Hz) conforming to IEC 60068-2-6
IP degree of protection	IP40 conforming to IEC 60529
Ambient air temperature for operation	-40…85 °C (DC)
Standards	UL 508 CSA C22.2 No 14 IEC 61810-1
Product certifications	EAC[RETURN]CSA[RETURN]UL
Marking	CE
Ambient air temperature for storage	-40…85 °C
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

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	31.000 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	5.200 Kg

Offer Sustainability

Recyclability potential, in %	75
Total lifecycle Carbon footprint	15 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	0.1246704908
Carbon footprint of the manufacturing phase [A1 to A3]	0.1 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.0018307075
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.0000899962
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	14.7814150448
REACh free of SVHC	Yes
Carbon footprint of the use phase [B2, B3, B4, B6]	15 kg CO2 eq.
Toxic heavy metal free	Yes

Mercury free	Yes
Sustainable packaging	No
Carbon footprint of the end-of-life phase [C1 to C4]	0.0233806246
Carbon footprint of the end-of-life phase [C1 to C4]	0 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	15
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
REACh Regulation	Free of Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant
California proposition 65	WARNING: This product can expose you to chemicals including: Nickel compounds, which is k
End of life manual availability	No need of specific recycling operations
Take-back	No

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised