Product data sheet
Characteristics

RSB1A160BDPV
interface pre assembled plug in relay with socket, Harmony Electromechanical Relays, 16A, 1CO, with LED, without lockable test button, screw, 24V DC



Main

Range of product	Harmony Electromechanical Relays
Series name	RSB series
Product or component type	Pre-assembled plug-in relay with socket
Relay type	Interface relay
Contacts type and composition	1 C/O
Contact operation	Standard
Status LED	With
[Uc] control circuit voltage	120 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: DC at 20 °C +/- 10 %
[Ue] rated operational voltage	19.2...26.4 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 AC 448 W DC
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	70000 Cycles, 16 A at 250 V, AC-1 NO 70000 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

Contact terminal arrangement	Separate
Connections - terminals	Connector, 1 x 0.25...1 x 2.5 mm² (22 AWG...14 AWG) flexible with cable end Connector, 2 x 0.25...2 x 1 mm² (22 AWG...17 AWG) flexible with cable end Connector, 1 x 0.5...1 x 2.5 mm² (20 AWG...14 AWG) solid without cable end Connector, 2 x 0.5...2 x 1.5 mm² (20 AWG...16 AWG) solid without cable end
Torque value	0.8 N.M 0.8 N.M
Protection category	RT I
Operating position	Any position
Test levels	Level A group mounting
Device presentation	Complete product
Sale per indivisible quantity	30
Contacts material	Silver alloy (AgNi)
Shape of pin	Flat (PCB type)
Net weight	0.050 Kg
Compatibility code	RSB

Environment

Dielectric strength	1000 V AC between contacts 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	IP20 conforming to IEC 60529
Ambient air temperature for operation	-40…85 °C (DC)
Standards	IEC 61810-1 CSA C22.2 No 14 UL 508 IEC 61984
Product certifications	CE[RETURN]UL[RETURN]CSA[RETURN]EAC
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	8.420 Cm
Package 1 Width	1.560 Cm
Package 1 Length	6.420 Cm
Package 1 Weight	65.000 G
Unit Type of Package 2	BB1
Number of Units in Package 2	30
Package 2 Height	8.500 Cm
Package 2 Width	18.500 Cm
Package 2 Length	27.200 Cm
Package 2 Weight	1.988 Kg
Unit Type of Package 3	S03
Number of Units in Package 3	180
Package 3 Height	30 Cm
Package 3 Width	30 Cm
Package 3 Length	40 Cm
Package 3 Weight	12.660 Kg

Offer Sustainability

Recyclability potential, in %	75
Total lifecycle Carbon footprint	7 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	0.4847188681
Carbon footprint of the manufacturing phase [A1 to A3]	0.5 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.0071177906

Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.0003499051
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	6.4798154504
REACh free of SVHC	Yes
Carbon footprint of the use phase [B2, B3, B4, B6]	6 kg CO2 eq.
Toxic heavy metal free	Yes
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.0909038685
Carbon footprint of the end-of-life phase [C1 to C4]	0.1 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	7
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
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