Product data sheet
Characteristics

XRBA42100
standard duty screw limit switch - bare drive shaft - 4 C/O - 17:1 - right-hand

Main

Range of product	XR and XF
Product or component type	Standard duty screw limit switch
Device short name	XRBA
Product specific application	Liquid level control in pumping systems Position control of moving parts of hoisting or materials handling equipment
Material	Stainless steel (input drive shaft) Aluminium alloy (cover) Aluminium alloy (body housing)
Type of operator	Bare drive shaft
Operating position	Right-hand side
Maximum revolution speed	1000 rpm of input drive shaft
Number of poles	1
Contacts operation	Snap action
[Ie] rated operational current	Q300, DC-13 (Ue = 250 V, Ie = 0.27 A) conforming to EN/IEC 60947-5-1 A300, AC-15 (Ue = 240 V, Ie = 3 A) conforming to EN/IEC 60947-5-1
Product compatibility	XRBZ900

Complementary

Reduction ratio	17:1
Operating torque	5 N.m at 20 °C
Mechanical durability	15000000 cycles
Contacts type and composition	4 C/O
[Ithe] conventional enclosed thermal current	10 A
[Ui] rated insulation voltage	250 V conforming to EN/IEC 60947-1
[Uimp] rated impulse withstand voltage	6 kV conforming to EN/IEC 60947-1
Resistance across terminals	<= 25 MOhm
Short circuit protection	10 A cartridge fuse type gG
Connections - terminals	Captive screw clamp terminals, connection capacity: 2 x 1.5 mm² with cable end

Electrical durability	500000 cycles DC-13 resistive at 48 V, 50 W, operating rate 3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 500000 cycles DC-13 resistive at 24 V, 39 W, operating rate 3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 500000 cycles DC-13 resistive at 220 V, 67 W, operating rate 3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 500000 cycles DC-13 resistive at 12 V, 27 W, operating rate 3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 500000 cycles DC-13 resistive at 110 V, 65 W, operating rate 3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 500000 cycles DC-13 inductive at 48 V, 110 W, operating rate 3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 500000 cycles DC-13 inductive at 24 V, 84 W, operating rate 3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 500000 cycles DC-13 inductive at 220 V, 135 W, operating rate 3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 500000 cycles DC-13 inductive at 12 V, 55 W, operating rate 3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 500000 cycles DC-13 inductive at 110 V, 130 W, operating rate 3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 500000 cycles AC-15 50/60 Hz resistive at 48 V, 700 VA, operating rate 3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 500000 cycles AC-15 50/60 Hz resistive at 24 V, 35 VA, operating rate 3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 500000 cycles AC-15 50/60 Hz resistive at 220 V, 220 VA, operating rate 3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 500000 cycles AC-15 50/60 Hz resistive at 127 V, 165 VA, operating rate 3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 500000 cycles AC-15 50/60 Hz resistive at 12 V, 18 VA, operating rate 3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 500000 cycles AC-15 50/60 Hz inductive at 48 V, 216 VA, operating rate 3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 500000 cycles AC-15 50/60 Hz inductive at 24 V, 108 VA, operating rate 3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 500000 cycles AC-15 50/60 Hz inductive at 220 V, 530 VA, operating rate 3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 500000 cycles AC-15 50/60 Hz inductive at 127 V, 450 VA, operating rate 3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 500000 cycles AC-15 50/60 Hz inductive at 12 V, 65 VA, operating rate 3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1
Adaptation for potentiometer	With, ratio 1
Cable entry	1 entry tapped for Pg 9 cable gland, clamping capacity: 5...8 mm 1 entry tapped for Pg 16 cable gland, clamping capacity: 10...14 mm
Product weight	1.5 kg

Environment

Standards	EN/IEC 60947-5-1
Protective treatment	TC
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-40...70 °C
Shock resistance	80 gn for 11 ms
Vibration resistance	> 5 gn (10...60 Hz)
IP degree of protection	IP557 conforming to NF C 20-010 IP55 conforming to EN/IEC 60529

Offer Sustainability

Sustainable offer status	Not Green Premium product
RoHS (date code: YYWW)	Will be Compliant on 4Q2014