

Product data sheet

Specifications



single-stage heavy duty screw limit switch XR2 - 3 NC - 50 rpm

XR2BB03K16

⚠ Discontinued on: Jan 16, 2023

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Main

Range Of Product	XR and XF
Product Or Component Type	Single-stage heavy duty screw limit switch
Device Short Name	XR2
Product Specific Application	Position control of moving parts of hoisting or materials handling equipment Liquid level control in pumping systems
Material	Sheet steel: enclosure
Type Of Operator	Drive shaft, end fittings with sprocket key and washer
Maximum Revolution Speed	50 rpm of input drive shaft
Theoretical Number Of Turns	1.6 of input drive shaft
Number Of Poles	1

Complementary

Mechanical Durability	10000000 cycles
Maximum Number Of Turns	6 of threaded shaft
Threaded Shaft Screw Pitch	4 mm
Operating Finger Radius	40 mm
Length Of Developed Helical Travel	4 mm
Differential Snap Over Angle	30 ° contact actuators measured at finger
Repeat Accuracy	0.02 % on the tripping point
Number Of Teeth	26 (pinion B) 26 (pinion D) 49 (pinion A) 49 (pinion C)
Actual Number Of Turns	1.689 (input drive shaft)
Contacts Type And Composition	3 NC
Contact Operation	Snap action
[Ie] Rated Operational Current	A300, AC-15, Ue = 240 V, Ie = 3 A conforming to EN/IEC 60947-5-1 Q300, DC-13, Ue = 250 V, Ie = 0.27 A conforming to EN/IEC 60947-5-1
[Ithe] Conventional Enclosed Thermal Current	20 A
[Ui] Rated Insulation Voltage	500 V conforming to EN/IEC 60947-1 600 V conforming to CSA C22.2 No 14
[Uimp] Rated Impulse Withstand Voltage	6 kV conforming to EN/IEC 60947-1

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Maximum Resistance Across Terminals	25 MOhm
Short-Circuit Protection	20 A cartridge fuse gG
Connections - Terminals	Screw clamp terminals, 2 x 1.5 mm ² with or without cable end Screw clamp terminals, 2 x 2.5 mm ² without cable end

Electrical Durability

[illegible]

10000000 cycles DC-13 resistive at 48 V, 38 W, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1

3000000 cycles DC-13 inductive at 110 V, 330 W, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1

3000000 cycles DC-13 inductive at 12 V, 220 W, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1

3000000 cycles DC-13 inductive at 220 V, 280 W, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1

3000000 cycles DC-13 inductive at 24 V, 450 W, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1

3000000 cycles DC-13 inductive at 440 V, 240 W, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1

3000000 cycles DC-13 inductive at 48 V, 400 W, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1

3000000 cycles DC-13 resistive at 12 V, 135 W, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1

3000000 cycles DC-13 resistive at 220 V, 90 W, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1

3000000 cycles DC-13 resistive at 24 V, 115 W, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1

3000000 cycles DC-13 resistive at 440 V, 85 W, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1

3000000 cycles DC-13 resistive at 48 V, 105 W, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1

Cable Entry	Removable gland plate
Net Weight	10 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	50 gn for 11 ms
Vibration Resistance	> 5 gn (f= 10...55 Hz)
Ip Degree Of Protection	IP54 conforming to EN/IEC 60529

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Weight	0.001 g

Contractual warranty

Warranty	18 months
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