Product data sheet

Specifications

Discontinued

double-stage heavy duty screw limit switch XR2 - 14C/O - 400 rpm

XR2AB14K300

Discontinued on: Jan 16, 2023

Main

Range Of Product	XR and XF
Product Or Component Type	Double-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	400 rpm of input drive shaft
Theoretical Number Of Turns	300 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 A) 26 (pinion C) 49 (pinion B) 49 (pinion D)
Actual Number Of Turns	289.77 (input drive shaft)
Contacts Type And Composition	14 C/O
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	10 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

Maximum Resistance Across Terminals	25 MOhm
Short-Circuit Protection	10 A cartridge fuse gG
Connections - Terminals	Screw clamp terminals, 2 x 1.5 mm² with or without cable end Screw clamp terminals, 2 x 2.5 mm² without cable end

Electrical Durability	10000000 cycles AC-15 50/60 Hz inductive at 12 V, 70 VA, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 10000000 cycles AC-15 50/60 Hz inductive at 127 V, 270 VA, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 10000000 cycles AC-15 50/60 Hz inductive at 220 V, 290 VA, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 10000000 cycles AC-15 50/60 Hz inductive at 24 V, 120 VA, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 10000000 cycles AC-15 50/60 Hz inductive at 380 V, 300 VA, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 10000000 cycles AC-15 50/60 Hz inductive at 48 V, 180 VA, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 10000000 cycles AC-15 50/60 Hz inductive at 500 V, 300 VA, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 10000000 cycles AC-15 50/60 Hz resistive at 12 V, 45 VA, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 10000000 cycles AC-15 50/60 Hz resistive at 127 V, 180 VA, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 10000000 cycles AC-15 50/60 Hz resistive at 220 V, 200 VA, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 10000000 cycles AC-15 50/60 Hz resistive at 24 V, 75 VA, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 10000000 cycles AC-15 50/60 Hz resistive at 380 V, 200 VA, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 10000000 cycles AC-15 50/60 Hz resistive at 48 V, 120 VA, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 10000000 cycles AC-15 50/60 Hz resistive at 500 V, 200 VA, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 3000000 cycles AC-15 50/60 Hz inductive at 12 V, 100 VA, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 3000000 cycles AC-15 50/60 Hz inductive at 127 V, 1050 VA, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 3000000 cycles AC-15 50/60 Hz inductive at 220 V, 1150 VA, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 3000000 cycles AC-15 50/60 Hz inductive at 24 V, 220 VA, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 3000000 cycles AC-15 50/60 Hz inductive at 380 V, 1150 VA, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 3000000 cycles AC-15 50/60 Hz inductive at 48 V, 480 VA, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 3000000 cycles AC-15 50/60 Hz inductive at 500 V, 1200 VA, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 3000000 cycles AC-15 50/60 Hz resistive at 12 V, 100 VA, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 3000000 cycles AC-15 50/60 Hz resistive at 127 V, 700 VA, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 3000000 cycles AC-15 50/60 Hz resistive at 220 V, 750 VA, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 3000000 cycles AC-15 50/60 Hz resistive at 24 V, 200 VA, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 3000000 cycles AC-15 50/60 Hz resistive at 380 V, 800 VA, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 3000000 cycles AC-15 50/60 Hz resistive at 48 V, 400 VA, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 3000000 cycles AC-15 50/60 Hz resistive at 500 V, 800 VA, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 10000000 cycles DC-13 inductive at 110 V, 80 W, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 10000000 cycles DC-13 inductive at 12 V, 100 W, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 10000000 cycles DC-13 inductive at 220 V, 60 W, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 10000000 cycles DC-13 inductive at 24 V, 90 W, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 10000000 cycles DC-13 inductive at 440 V, 33 W, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 10000000 cycles DC-13 inductive at 48 V, 85 W, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 10000000 cycles DC-13 resistive at 110 V, 30 W, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 10000000 cycles DC-13 resistive at 12 V, 45 W, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 10000000 cycles DC-13 resistive at 220 V, 20 W, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 10000000 cycles DC-13 resistive at 24 V, 40 W, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 10000000 cycles DC-13 resistive at 440 V, 7.5 W, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 10000000 cycles DC-13 resistive at 48 V, 35 W, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1

3000000 cycles DC-13 inductive at 110 V, 110 W, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1
3000000 cycles DC-13 inductive at 12 V, 100 W, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1
3000000 cycles DC-13 inductive at 220 V, 95 W, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1
3000000 cycles DC-13 inductive at 24 V, 140 W, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1
3000000 cycles DC-13 inductive at 440 V, 65 W, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1
3000000 cycles DC-13 inductive at 48 V, 130 W, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1
3000000 cycles DC-13 resistive at 110 V, 95 W, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1
3000000 cycles DC-13 resistive at 12 V, 100 W, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1
3000000 cycles DC-13 resistive at 220 V, 80 W, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1
3000000 cycles DC-13 resistive at 24 V, 120 W, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1
3000000 cycles DC-13 resistive at 440 V, 45 W, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1
3000000 cycles DC-13 resistive at 48 V, 110 W, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1

Cable Entry	Removable gland plate
Net Weight	18 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