

Material

LIMIT SWITCH, K SERIES, TOP ROLLER PUSH PLUNGER, 1 BOTTOM CABLE ENTRY. electric DIMENSIONS TO EN 50047, PLASTIC BODY, CONTACTS 1NO+1NC SLOW ACTION. PLASTIC ROLLER



KBB1L11

Product designation	Top roller push plunger
Product type designation	KBB
General characteristics	

Roller Plastic Contact INO+INC Slow action Type of contact A 10 Tight and current lth A 10 TEC/EN 60947-5-1 designation A600 0300 Rated insulation voltage Ui V 690 Rated insulation voltage Ui V 690 Rated insulation voltage Uimp KV 6 Insulation class II II II III III Short-circuit protection with fuse Class/A 10 gG/SC QUICK FUSE III Switching speed min m/s 0.5 III III Resistance per pole (average value) mΩ <10 III III Mechanical features Looking bayonet insert III IIII IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Material		Housing		Polymer thermoplastic
Contact characteristics INO+1NC Slow action Type of contact 1NO+1NC Slow action Thermal current lth A 10 IEC/EN 60947-5-1 designation A600 Q300 Rated insulation voltage Uimp V 690 Rated insulation voltage Uimp KV 6 Insulation class II 1 Short-circuit protection with fuse Class/A 10 gG/SC QUICK FUSE Switching speed min m/s 1.5 IEC Conventional free air thermal current lth A 10 0 Mechanical features ucking bayonet insert 0 0 Operating head fixing Locking bayonet insert 0 0 Operating torque N 5 10 1.1 Tightening torque (Max) Switch fixing Nm 2.5 10 1.1 Tightening torque (Max) Switch fixing Nm 0.8 10 7 Conductor section AWG/Kcmil min 16 7 16 IEC min 16			Roller		-
Type of contact action Thermal current lth A 10 IEC/EN 60947-5-1 designation A 600 0300 Rated insulation voltage Ui V 690 Rated insulation voltage Ui V 690 Ill Ill Short-circuit protection with fuse Class/A 10 gG/SC QUICK FUSE QUICK FUSE Switching speed min m/s 0.5 max m/s 1.5 IEC Conventional free air thermal current lth A 10 max 1.5 IEC Conventional free air thermal current lth A 10 max 1.5 IEC Conventional free air thermal current lth A 10 max 1.6 Operating head fixing mQ <10	Contact characteristics	6			
IEC/EN 60947-5-1 designation A 600 Q300 Rated insulation voltage Ui V 690 Rated insulation voltage Uimp kV 6 Insulation class II 10 Short-circuit protection with fuse Class/A 10 gG/SC QUICK FUSE Switching speed min m/s 0.5 EC Conventional free air thermal current lth A 10 Resistance per pole (average value) mΩ <10	Type of contact				
Rated insulation voltage Ui V 690 Rated impulse withstand voltage Uimp kV 6 Insulation class II 10 gG/SC QUICK FUSE Switching speed min m/s 0.5 Switching speed min m/s 0.5 IEC Conventional free air thermal current lth A 10 Resistance per pole (average value) mΩ <10	Thermal current Ith			А	10
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Insulation class II Short-circuit protection with fuse Class/A 10 gG/SC QUICK FUSE Switching speed min m/s 0.5 Background Stress min m/s 0.5 IEC Conventional free air thermal current lth A 10 Resistance per pole (average value) mQ <10					690
Short-circuit protection with fuse Class/A 10 gG/SC QUICK FUSE Switching speed min m/s 0.5 max m/s 1.5 IEC Conventional free air thermal current lth A 10 Resistance per pole (average value) mQ <10				kV	
Since click protection with ruse Class/A QUICK FUSE Switching speed min m/s 0.5 max m/s 1.5 IEC Conventional free air thermal current lth A 10 Resistance per pole (average value) mΩ <10	Insulation class				
min m/s 0.5 IEC Conventional free air thermal current lth A 10 Resistance per pole (average value) mΩ <10	Short-circuit protection	with fuse		Class/A	
max m/s 1.5 IEC Conventional free air thermal current lth A 10 Resistance per pole (average value) mΩ <10	Switching speed				
IEC Conventional free air thermal current lth A 10 Resistance per pole (average value) mΩ <10			min		
Resistance per pole (average value) mΩ <10			max		
Mechanical features Locking bayonet insert Operating head fixing N 5 Operating torque N 5 Tightening torque (Max) Switch fixing Nm 2.5 Ibin 22.1 Ibin 22.1 Contact terminals Nm 0.8 Ibin 7 Body lid screw fixing Nm 0.8 Ibin 7 Conductor section AWG/Kcmil min 16 max 14 IEC min min mm 107					
Operating head fixing Locking bayonet insert Operating torque N 5 Ib 1.1 Tightening torque (Max) Switch fixing Nm 2.5 Ibin 22.1 Ibin 22.1 Contact terminals Nm 0.8 Ibin 7 Ibin 7 Body lid screw fixing Nm 0.8 Ibin 7 Ibin 7 Conductor section AWG/Kcmil min 16 IEC min min 14		average value)		mΩ	<10
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N 5 Ib 1.1 Tightening torque (Max) Switch fixing Switch fixing Nm 2.5 Ibin 22.1 Contact terminals Nm 0.8 Ibin 7 Body lid screw fixing Nm 0.8 Ibin 7 Conductor section Nm 0.8 AWG/Kcmil min 16 max 14 IEC min mm²					
Ib 1.1 Tightening torque (Max) Switch fixing Nm 2.5 bin 22.1 Ibin 22.1 Contact terminals Nm 0.8 bin 7 Ibin 7 Body lid screw fixing Nm 0.8 Ibin 7 Ibin 7 Conductor section AWG/Kcmil Integration 16 IEC min mm² 14	Operating torque				
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Switch fixing Switch fixing Nm 2.5 Ibin 22.1 Contact terminals Nm 0.8 Ibin 7 Body lid screw fixing Nm 0.8 Ibin 7 Conductor section Nm 0.8 AWG/Kcmil min 16 IEC min 14 IEC min 10r 2				lb	1.1
Nm 2.5 Ibin 22.1 Contact terminals Nm 0.8 Ibin 7 Body lid screw fixing Nm 0.8 Ibin 7 Conductor section Nm 0.8 AWG/Kcmil min 16 max 14 IEC min mm²	Tightening torque (Max				
Ibin 22.1 Contact terminals Nm 0.8 Ibin 7 Body lid screw fixing Nm 0.8 Ibin 7 Conductor section Nm 0.8 AWG/Kcmil min 16 max 14 IEC min mm²		Switch fixing			
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Nm 0.8 Ibin 7 Body lid screw fixing Nm 0.8 Ibin 7 Conductor section Nm 0.8 AWG/Kcmil nin 7 IEC nin 14 IEC nin nm² nin 10r 2				Ibin	22.1
Ibin 7 Body lid screw fixing Nm 0.8 Ibin 7 Conductor section AWG/Kcmil 7 AWG/Kcmil 16 IEC 14 IEC 10r 2		Contact terminals		N	<u>.</u>
Body lid screw fixing Nm 0.8 Ibin 7 Conductor section AWG/Kcmil Initial for the section of the section					
Nm 0.8 Ibin 7 Conductor section AWG/Kcmil min 16 max 14 IEC min mm² min mm² 1 or 2		Dedu lid eerow fiving		IDIN	1
Ibin 7 Conductor section AWG/Kcmil min 16 max 14 IEC min mm²		Body lid screw lixing		Nim	0.9
Conductor section AWG/Kcmil min 16 max 14 IEC min mmm²					
AWG/Kcmil min 16 max 14 IEC min mm ² 1or 2	Conductor section				1
min 16 max 14 IEC min mm ² 1or 2		AWG/Kemil			
IEC min mm² 1or 2			min		16
IEC min mm ² 1or 2					
min mm ² 1or 2		IEC			
			min	mm²	1or 2
			max	mm²	

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

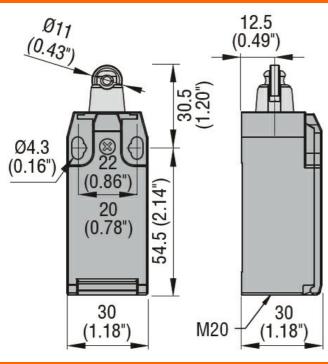


ENERGY AND AUTOMATION

KBB1L11 LIMIT SWITCH, K SERIES, TOP ROLLER PUSH PLUNGER, 1 BOTTOM CABLE ENTRY. electric DIMENSIONS TO EN 50047, PLASTIC BODY, CONTACTS 1NO+1NC SLOW ACTION. PLASTIC ROLLER

Cable connection				Self-releasing screw terminal
Cable entry				M20 on the bottom
Operations				
Mechanical life			cycles	<1000000
Mechanical operation			cycles/h	3600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-25
		max	°C	+70
	Storage temperature			
		min	°C	-40
		max	°C	+70
Resistance & Protecti	on			
IP degree				
		Terminals		IP20
		Body housing		IP65
Pollution degree				3

Dimensions

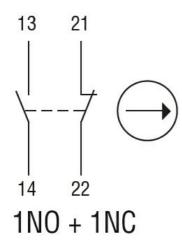


Wiring diagrams



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Slow action



Certifications and	compliance	
Compliance		
	CSA C22.2 n° 14	
	EN 50047	
	IEC/EN 60204-1	
	IEC/EN 60947-1	
	IEC/EN 60947-5-1	
	UL508	
Certificates		
	CCC	
	cULus	
	EAC	
ETIM classification		
ETIM 8.0		EC000030 - End

KBB1L11

switch