

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
Rated impulse withstand voltage Uimp     kV     6       Insulation class     II       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)     mΩ     <10	IEC/EN 60947-5-1 des	signation			A600 Q300
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
Operating nead fixing insert   Operating torque N 5   Ib 1.1   Tightening torque (Max) Switch fixing Nm   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 AWG/Kcmil min   IEC min 16   min mm 14	Mechanical features				
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				
Tightening torque (Max)   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   AWG/Kcmil   Ibin     AWG/Kcmil   min   16     IEC   min   14					
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			
Contact terminals   Nm   0.8     Ibin   7     Body lid screw fixing   Nm   0.8     Ibin   7     Conductor section   AWG/Kcmil   Ibin     AWG/Kcmil   min   16     IEC   min   14					
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 <sup>2</sup> 1or 2	Conductor section				1
min 16 max 14 IEC min mm <sup>2</sup> 1or 2		AWG/Kemil			
IEC min mm² 1or 2			min		16
IEC min mm <sup>2</sup> 1or 2					
min mm <sup>2</sup> 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

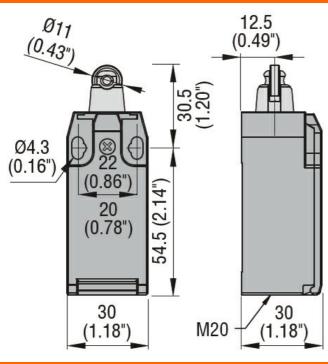


ENERGY AND AUTOMATION

**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

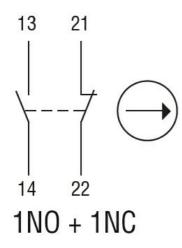


Wiring diagrams



**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

## 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