## KNB1L11



LIMIT SWITCH, K SERIES, TOP ROLLER PUSH PLUNGER, 2 SIDE CABLE ENTRY. DIMENSIONS COMPATIBLE TO EN 50047, METAL BODY, CONTACTS 1NO+1NC SLOW ACTION. PLASTIC ROLLER



Top roller push plunger KNB

Product designation		
Product type designation		

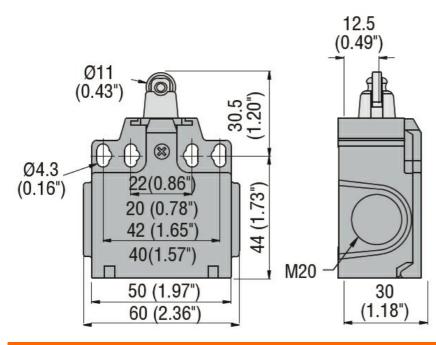
General characteristics

Housing Roller     Aluminium-zinc alloy Plastic       Contact characteristics     Plastic       Type of contact     1NO+1NC Slow action       Thermal current lth     A     10       IEC/EN 60947-5-1 designation     A     10       Rated insulation voltage Ui     V     440       Rated impulse withstand voltage Uimp     kV     4       Short-circuit protection with fuse     Class/A QUICK FUSE     10 gG/SC QUICK FUSE       Switching speed     min     m/s     1.5       IEC Conventional free air thermal current Ith     A     10       Resistance per pole (average value)     mΩ     <10       Mechanical features     Locking bayonet insert     Locking bayonet	Material				
Roller     ainoy       Roller     Plastic       Contact characteristics       Type of contact     100-100-100-100-100-100-100-100-100-100			Housing		
Contact characteristics       1N0+1NC Slow action         Type of contact       10         Thermal current lth       A       10         IEC/EN 60947-5-1 designation       A 300 Q300         Rated insulation voltage Uimp       V       440         Rated insulation voltage Uimp       KV       4         Short-circuit protection with fuse       Class/A       10 gG/SC QUICK FUSE         Switching speed       min       m/s       0.5         Switching speed       max       m/s       1.5         IEC Conventional free air thermal current lth       A       10         Resistance per pole (average value)       mQ       <10			-		-
Type of contact         1NO+1NC Slow action           Thermal current lth         A         10           IEC/EN 60947-5-1 designation         A300 Q300           Rated insulation voltage Ui         V         440           Rated insulation voltage Uimp         kV         4           Rated insulation voltage Uimp         kV         4           Short-circuit protection with fuse         Class/A         10 gG/SC QUICK FUSE           Switching speed         min <m s<="" td="">         1.5           Second late air thermal current lth         A         10           Resistance per pole (average value)         mΩ         &lt;10</m>	O and a stark and a stark		Roller		Plastic
Type of contact       action         Thermal current lth       A       10         TEC/EN 60947-5-1 designation       A300 Q300         Rated insulation voltage Ui       V       440         Rated insulation voltage Uimp       kV       4         Short-circuit protection with fuse       Class/A       10 gG/SC QUICK FUSE         Switching speed       min       m/s       0.5         Switching speed       mix       m/s       1.5         EEC Conventional free air thermal current lth       A       10         Resistance per pole (average value)       mΩ       <10	Contact characteristics				
IEC/EN 60947-5-1 designation A300 Q300 Rated insulation voltage Ui V 440 Rated insulation voltage Uimp KV 4 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 Mechanical features Operating head fixing NΩ <10 Mechanical features Operating torque (Max) Switch fixing Nm 2.5 Ibin 1.1 Tightening torque (Max) Gontact terminals Nm 0.8 Ibin 7 Body lid screw fixing Nm 0.8 Ibin 7 Conductor section AWG/Kcmil MC/Kcm	Type of contact				
Rated insulation voltage Ui       V       440         Rated insulation voltage Uimp       kV       4         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	Thermal current Ith			А	10
Rated impulse withstand voltage Uimp       kV       4         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		-			
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					
Since and protection with ruse Class A QUICK FUSE witching 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 Mechanical features Operating head fixing Operating torque N 5 Ib 1.1 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 min mf2 10 2	Rated impulse withsta	nd voltage Uimp		kV	
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	Short-circuit protection	with fuse		Class/A	10 gG/SC QUICK FUSE
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 Mechanical features Operating head fixing Locking bayonet insert Operating torque Operating torque (Max) Switch fixing Nm 2.5 Ib 1.1 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 AWG/Kcmil IEC min mm² 1or 2			min		
Resistance per pole (average value)       mΩ       <10			max		
Mechanical features       Locking bayonet insert         Operating head fixing       N       5         Operating torque       N       5         Ib       1.1       1.1         Tightening torque (Max)       Switch fixing       Nm       2.5         Ibin       22.1       1bin       22.1         Contact terminals       Nm       0.8         Ibin       7       1bin       7         Body lid screw fixing       Nm       0.8         Ibin       7       10 nm         Conductor section       AWG/Kcmil       min       16         IEC       min       14					
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       14       10		average value)		mΩ	<10
Operating nead lixing         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           Body lid screw fixing         Nm         0.8         Ibin         7           Conductor section         AWG/Kcmil         min         16         max         14           IEC         min         min         10 2         10 r 2         10 r 2	Mechanical features				
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         Body lid screw fixing         Nm         0.8           Conductor section         Nm         0.8         Ibin         7           Conductor section         AWG/Kcmil         min         16           IEC         min         14	Operating head fixing				
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       Nm       0.8         AWG/Kcmil       min       16         IEC       min       mm       14	Operating torque				
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     AWG/Kcmil     nin     16       Max     14       IEC     min     mm     10r 2					
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				lb	1.1
Nm       2.5         Ibin       22.1         Contact terminals       Nm         Ibin       7         Body lid screw fixing       Nm         Nm       0.8         Ibin       7         Conductor section       Nm         AWG/Kcmil       min         IEC       min         min       16         min       14	Tightening torque (Max				
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       14         IEC       min       mm²       1 or 2		Switch fixing			
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 mm <sup>2</sup> 1or 2					
Nm       0.8         Ibin       7         Body lid screw fixing       Nm       0.8         Ibin       7         Conductor section       AWG/Kcmil       16		<u> </u>		lbin	22.1
Ibin     7       Body lid screw fixing     Nm     0.8       Ibin     7       Conductor section     AWG/Kcmil     16       Min     16       IEC     min     14		Contact terminals		NL.	
Body lid screw fixing Nm 0.8 Ibin 7 Conductor section AWG/Kcmil min 16 max 14 IEC min mm² 1or 2					
Nm 0.8 Ibin 7 Conductor section AWG/Kcmil min 16 max 14 IEC min mm <sup>2</sup> 1or 2		Rody lid scrow fixing		חוטו	1
Ibin     7       Conductor section     AWG/Kcmil       min     16       max     14       IEC     min     mm²		body ild Screw fixing		Nm	0.8
Conductor section AWG/Kcmil 					
AWG/Kcmil min 16 max 14 IEC min mm <sup>2</sup> 1or 2	Conductor section				
min 16 max 14 IEC min mm² 1or 2		AWG/Kcmil			
max     14       IEC     min     mm²     1 or 2			min		16
IEC min mm <sup>2</sup> 1or 2					
min mm <sup>2</sup> 1or 2		IEC	-		
max mm² 2.5			min	mm²	1or 2
			max	mm²	2.5



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				Self-releasing
Cable connection				screw terminal
Cable entry				M20 on the sides
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 & Protect	ion			
IP degree				
		Terminals		IP20
		Body housing		IP65
Pollution degree				3
Dimensions				



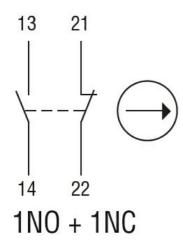
Wiring diagrams

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## Slow action



Certifications and co	ompliance	
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

switch

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