## ENERGY AND AUTOMATION

LIMIT SWITCH, K SERIES, ADJUSTABLE ROLLER LEVER, 1 BOTTOM CABLE ENTRY. DIMENSIONS TO EN 50047, PLASTIC BODY, CONTACTS 1NO+1NC SLOW ACTION. METAL ROLLER



**KBF2L11** 

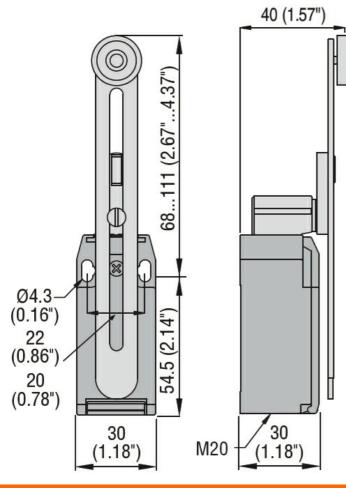
Product designation	Adjustable roller lever
Product type designation	KBF
General characteristics	
Material	

Roller     Metal       Contact     INO-11NC Slow action       Type of contact     action     action       Thermal current lth     A     10       IEC/EN 60947-5-1 designation     A600 Q600       Rated insulation voltage Ui     V     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     15       IEC conventional free air thermal current Ith     A     10       Resistance per pole (average value)     mQ     <10       Mechanical features     Uocking bayonet insert     0       Operating head fixing     min     3     ozin       Operating torque     Ncm     3     ozin     4.25       Tightening torque (Max)     Switch fixing     Nm     0.8     15       Ibin     7     Body lid screw fixing     Nm     0.8     15       Conductor section     AWG/Kcmil     min     16     max     14       IEC     min     min     16			Housing		Polymer thermoplastic
Contact characteristics       1NO+1NC Slow action         Type of contact       1NO+1NC Slow action         Thermal current lth       A       10         IEC/EN 60947-5-1 designation       A600 Q600         Rated insulation voltage Uimp       V       690         Rated insulation voltage Uimp       KV       6         Insulation class       II       10 g/GCC         Short-circuit protection with fuse       Class/A       10 g/GCC         Switching speed       min       m/s       1.5         IEC Conventional free air thermal current lth       A       10         Resistance per pole (average value)       mQ<<10			Roller		-
Type of contact       action         Thermal current lth       A       10         IEC/EN 60947-5-1 designation       A 600 Q600         Rated insulation voltage Ui       V       690         Rated insulation voltage Ui       V       690         Insulation class       II       II         Short-circuit protection with fuse       Class/A       10 gG/SC QUICK FUSE         Switching speed       min <m s<="" td="">       0.5         mix       m/s       1.5         IEC Conventional free air thermal current lth       A       10         Resistance per pole (average value)       mΩ       &lt;10</m>	Contact characteristics		T CONOT		Motal
IEC/EN 60947-5-1 designation         A600 Q600           Rated insulation voltage Ui         V         690           Rated insulation voltage Uinp         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           Mexication class         min         m/s         0.5           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           min         m/s         0.5         00           Mechanical fee 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	ignation			A600 Q600
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) mQ <10 Mechanical features Operating head fixing Locking bayonet insert Operating 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 IEC min mm² 1or 2	Rated insulation voltage	e Ui		V	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)       mΩ       <10	Rated impulse withstan	id voltage Uimp		kV	6
Since Circuit protection with ruse Circuits // 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				11
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	
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	m/s	0.5
Resistance per pole (average value)       mΩ       <10			max		
Mechanical features       Locking bayonet insert         Operating head fixing       Locking bayonet insert         Operating torque       Ncm       3         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       10r 2					
Operating head fixing     Locking bayonet insert       Operating torque     Ncm     3       Tightening torque (Max)     switch fixing     4.25       Tightening torque (Max)     Switch fixing     Nm     2.5       Ibin     22.1     1bin     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		verage value)		mΩ	<10
Operating head fixing     insert       Operating torque     Ncm     3       ozin     4.25       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     min       IEC     min     16       min     min     14	Mechanical features				
Ncm         3           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         Integration         16           IEC         min         14	Operating head fixing				
Image: state of the system         ozin         4.25           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         Inin         16           IEC         min         min         14	Operating torque				
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         IEC       min       min       10r 2				Ncm	
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         AWG/Kcmil       16         IEC       min       14         IEC       min       mm²         Min       10r 2				ozin	4.25
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         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         min       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       16         min       14         IEC       min       mm²         min       10 2					
Nm         0.8           Ibin         7           Body lid screw fixing         Nm         0.8           Ibin         7           Conductor section         Nm         0.8           AWG/Kcmil         min         16           IEC         14				lbin	22.1
Ibin         7           Body lid screw fixing         Nm         0.8           Ibin         7           Conductor section         AWG/Kcmil         16           min         16           IEC         14		Contact terminals			
Body lid screw fixing       Nm       0.8         Ibin       7         Conductor section       AWG/Kcmil       I         AWG/Kcmil       16         IEC       14         IEC       10r 2					
Nm     0.8       Ibin     7       Conductor section     AWG/Kcmil				Ibin	/
Ibin         7           Conductor section         AWG/Kcmil         16		Body lid screw fixing		Nime	0.0
Conductor section          AWG/Kcmil       min       16         max       14         IEC       min       mmm²					
AWG/Kcmil min 16 max 14 IEC min mm <sup>2</sup> 1 or 2	Conductor contion			IDIN	/
min         16           max         14           IEC         min         mm²         1 or 2	CONTRACTOR SECTION				
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		i F
			min	mm²	1or 2



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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 & Protection			
IP degree			
	Terminals		IP20
	Body housing		IP65
Pollution degree	Body hodding		3
Dimensions			J



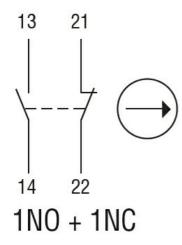
## Wiring diagrams

**KBF2L11** 



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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	1	
ETIM 8.0		EC000030 - End

switch

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