

LIMIT SWITCH, K SERIES, ROLLER LEVER PLUNGER, 1 BOTTOM CABLE ENTRY. DIMENSIONS TO EN 50047, PLASTIC BODY, CONTACTS 2NO SLOW ACTION. RUBBER ROLLER



**KBE3L20** 

Product designation	Roller lever plunger
Product type designation	KBE
General characteristics	
Material	

Roller       Roller       Rubber         Contact       ZNO Slow action         Type of contact       A       10         IEC/EN 60947-5-1 designation       A 600 Q600         Rated insulation voltage Ui       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 Ith       A       10         Resistance per pole (average value)       mΩ       <10         Mechanical features       Uorking bayonet insert          Operating head fixing       Locking bayonet insert          Operating torque       Ncm       3          Ightening torque (Max)       Switch fixing       Nm       0.8          Body lid screw fixing       Nm       0.8           Ibin       7              Icclassical fixing       Nm       0.8            Integrating torque (Max)			Housing		Polymer thermoplastic
Contact characteristics         2NO Slow action           Type of contact         2NO Slow action           Thermal current th         A         10           EC/EN 60947-5-1 designation         A600 Q600           Rated insulation voltage Ui         V         690           Rated insulation voltage Uimp         kV         6           Insulation class         II         10 gG/SC QUICK FUSE           Switching speed         min         m/s         0.5           imax         m/s         1.5         1.5           IEC Conventional free air thermal current th         A         10         0           Resistance per pole (average value)         mΩ         <10			Roller		
Type of contact         2NO Slow action           Thermal current lth         A         10           IEC/EN 60947-5-1 designation         A600 0600           Rated insulation voltage Ui         V         690           Rated insulation voltage Ui         V         690           Rated insulation voltage Ui         V         690           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           Resistance per pole (average value)         mΩ         <10	Contact characteristic	S			
Thermal current lth         A         10           IEC/EN 60947-5-1 designation         A600 Q600           Rated insulation voltage Uin         V         690           Rated insulation voltage Uimp         KV         6           Insulation class         II         10 gG/SC           Switching speed         min         m/s         0.5           witching speed         min         m/s         1.5           IEC Conventional free air thermal current lth         A         10           Mechanical features         mon Ω         <10		-			2NO Slow action
IEC/EN 60947-5-1 designation       A600 Q600         Rated insulation voltage Ui       V       690         Rated insulation voltage Uinp       kV       6         Insulation class       II       0         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       Locking bayonet insert       0         Operating head fixing       Locking bayonet insert       10         Operating torque       Ncm       3       0         Operating torque (Max)       Switch fixing       Ncm       3       0         Tightening torque (Max)       Switch fixing       Nm       0.8       1         Conductor section       AWG/Kcmil       Nm       0.8       1       16         IEC       min       16       max       14       14				Α	
Rated insulation voltage Ui         V         690           Rated impulse withstand voltage Uimp         kV         6           Insulation class         II         10 gG/SC           Short-circuit protection with fuse         Class/A         10 gG/SC           Switching speed         min         m/s         1.5           IEC Conventional free air thermal current lth         A         10           Resistance per pole (average value)         mQ         <10	IEC/EN 60947-5-1 de	signation			A600 Q600
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				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				kV	6
Short-Circuit protection with fuse OLESS/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 Mechanical features Operating head fixing Operating torque  Operating torque Norm 3 ozin 4.25 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 16 max 14 IEC min mm² 1or 2	Insulation class				II
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	n 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)         mQ         <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	m/s	1.5
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       Ibin       7         Conductor section       AWG/Kcmil       min       16         IEC       min       14       10 r 2	IEC Conventional free	air thermal current Ith		А	10
Operating head fixing       Locking bayonet insert         Operating torque       Nom       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       1bin       7         Body lid screw fixing       Nm       0.8         Ibin       7       16         MCMG/Kcmil       min       16         IEC       min       14	Resistance per pole (a	average value)		mΩ	<10
Operating near insert     insert       Operating torque     Ncm     3       ozin     4.25       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     16       IEC     min     min     14	Mechanical features				
Ncm       3         Tightening torque (Max)       Switch fixing         Switch fixing       Nm         2.5       Ibin         Ibin       22.1         Contact terminals       Nm         Body lid screw fixing       Nm         Nom       0.8         Ibin       7         Conductor section       Nm         AWG/Kcmil       min         IEC       min       16         min       mm       14	Operating head fixing				
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         Nm         16           AWG/Kcmil         min         16           IEC         min         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				Ncm	3
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 16 max 14 IEC min mm² 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         0.8           AWG/Kcmil         min         16           max         14         IEC         min         mm	Tightening torque (Ma				
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         7           IEC         min         16           min         14         12		Switch fixing			
Contact terminals       Nm       0.8         Ibin       7         Body lid screw fixing       Nm       0.8         Ibin       7         Conductor section       AWG/Kcmil       16         min       16         IEC       min       14					
Nm       0.8         Ibin       7         Body lid screw fixing       Nm       0.8         Ibin       7         Conductor section       NMG/Kcmil       7         AWG/Kcmil       16         IEC       14         IEC       10 2		-		lbin	22.1
Ibin     7       Body lid screw fixing     Nm     0.8       Ibin     7       Conductor section     AWG/Kcmil     16       IEC     min     14       IEC     min     10 2		Contact terminals			
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		Dedu lid eerow fiving		nidi	1
Ibin         7           Conductor section         AWG/Kcmil         16		Body lid screw fixing		Nm	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/Kcmil			
IEC min mm² 1or 2			min		16
IEC min mm <sup>2</sup> 1or 2					
min mm <sup>2</sup> 1 or 2		IEC	max		
			min	mm²	1or 2



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ENERGY AND AUTOMATION			RULLER
Cable connection			Self-releasing screw terminal
Cable entry			M20 on the bottom
Operations			
Mechanical life		cycles	<1000000
Mechanical operation Ambient conditions		cycles/h	3600
Temperature			
Operating temperature			
operating temperature	min	°C	-25
	max	°C	+70
Storage temperature			
	min	°C	-40
	max	°C	+70
Resistance & Protection			
IP degree			
	Terminals		IP20
Dollution dograd	Body housing		IP65 3
Pollution degree Dimensions			3
	42 (1.57")		
Ø50x10 (1.97"x0.39") Ø4.3 (0.16") 20 (0.78") 273")			

Wiring diagrams

30

(1.18"

30

1.18

M20

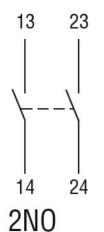
**KBE3L20** 



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## Slow action



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