

## KBH1L11 LIMIT SWITCH, K SERIES, CERAMIC ROD LEVER, 1 BOTTOM CABLE ENTRY. DIMENSIONS TO EN 50047, PLASTIC BODY, CONTACTS 1NO+1NC SLOW ACTION. CERAMIC ROD



Product designation	Ceramic rod lever
Product type designation	KBH
General characteristics	

Μ	ate	rial

Rod     Certamic       Contact thatacteristics       Type of contact     1NO+1NC Slow action       Thermal current lth     A     10       EC/EN 60947-5-1 designation     A600 Q600       Rated insulation voltage U     V     690       Rated insulation voltage U     V     690       Rated insulation voltage U     V     600       Short-circuit protection with fuse     Class/A     10 gG/SC QUICK FUSE       Switching speed     0     10       Mechanical features     0.5     0       Mechanical features     min     m/s     0.5       Operating head fixing     miD     <10     0       Operating torque     MC     3     ozin     4.25       Tightening torque (Max)     Switch fixing     Nm     2.5     10       Decking baryonet fixing     Nm     0.8     10       Reside convertinals     Nm     0.8     10       Operating torque (Max)     Nm     0.8     10       Contact terminals     Nm     0.8     10       Ibin     7     10     10       Decking baryonet fixing     Nm     0.8     10       Ibin     7     10     10       Ibin     2.5			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         A 800 Q600           Rated insulation voltage Uimp         V         690           Rated insulation voltage Uimp         KV         6           Insulation class         II         10 gG/SC QUICK FUSE           Switching speed         min         m/s         0.5           max         m/s         1.5         1.5           IEC Conventional free air thermal current lth         A         10         0           Mechanical features         ucking bayonet insert         0.5         0           Operating head fixing         Locking bayonet insert         0         0           Operating torque         Ncm         3 ozin         4.25           Tightening torque (Max)         Switch fixing         Nm         2.5 Ibin         22.1           Conductor section         Ibin         7         0         8           EC         MWG/Kcmil         min         16 max         14			Rod		
Type of contact 1NO+1NC Slow action 2 Thermal current lth A 10 IEC/EN 60947-5-1 designation A600 Q600 Rated insulation voltage Ui V 690 Rated insulation voltage Uimp KV 6 Insulation class II Short-circuit protection with fuse Class/A 10 gG/SC QUICK FUSE Switching speed II Mechanical free air thermal current Ith A 10 Resistance per pole (average value) mΩ <10 Mechanical features U Operating head fixing I Cortact terminals Nm 2.5 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 I AWG/Kcmil I IEC min mm <sup>2</sup> 10 2	Contact characteristics				
IEC/EN 60947-5-1 designation A600 Q600 Rated insulation voltage Ui V 690 Rated inpulse 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 Ith 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 Conductor section AWG/Kcmil Nm 16 max 14 IEC min mm <sup>2</sup> 1or 2					
Rated insulation voltage Ui       V       690         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)       mQ       <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 designation	l			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) Mechanical features Operating head fixing Operating head fixing Coperating torque Nem 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 TEC min mm <sup>2</sup> 10 72	Rated insulation voltage Ui			V	690
Short-circuit protection with fuse       Class/A       10 gG/SC QUICK FUSE         Switching speed       min max       m/s       0.5 max         Second State       min m/s       0.5         IEC Conventional free air thermal current lth       A       10         Resistance per pole (average value)       mΩ       <10	Rated impulse withstand voltage	je Uimp		kV	6
Siloreurout protection with fuse of a set of a	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 fus	е		Class/A	
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	
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       Nm       16         AWG/Kcmil       min       16       max       14         IEC       min       min       16					
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       1bin       7         Body lid screw fixing       Nm       0.8       1bin       7         Conductor section       AWG/Kcmil       min       16       14         IEC       min       mm       14		/alue)		mΩ	<10
Operating friead fixing           Ncm         3           Operating torque         Ncm         3           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         max         14           IEC         min         mm         1or 2         1or 2	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           Conductor section         AWG/Kcmil         min         16         max         14           IEC         min         mm         16         max         14	Operating head fixing				
ozin         4.25           Tightening torque (Max)         Switch fixing         Nm         2.5	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					
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 1 or 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         mm²					
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	Switch	fixing			
Contact terminals       Nm       0.8         Ibin       7         Body lid screw fixing       Nm       0.8         Ibin       7         Conductor section       AWG/Kcmil       nin         AWG/Kcmil       min       16         IEC       min       mm²         Min       10r 2					
Nm       0.8         Ibin       7         Body lid screw fixing       Nm       0.8         Ibin       7         Conductor section       AWG/Kcmil       7         AWG/Kcmil       min       16         IEC       min       14				Ibin	22.1
Ibin     7       Body lid screw fixing     Nm     0.8       Ibin     7       Conductor section     AWG/Kcmil     16       IEC     min     14       IEC     min     mm²	Contac	ct terminals		NL.	
Body lid screw fixing       Nm       0.8         Ibin       7         Conductor section       AWG/Kcmil       initial initiali initialininitialinininitial initial initial initial initinitial					
Nm       0.8         Ibin       7         Conductor section       AWG/Kcmil	Bodyli	d corow fiving		IDIN	1
Ibin         7           Conductor section         AWG/Kcmil         information	Body II	a 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         mm²         1 or 2		Kemil			
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				
	-		min	mm²	1or 2
				mm²	

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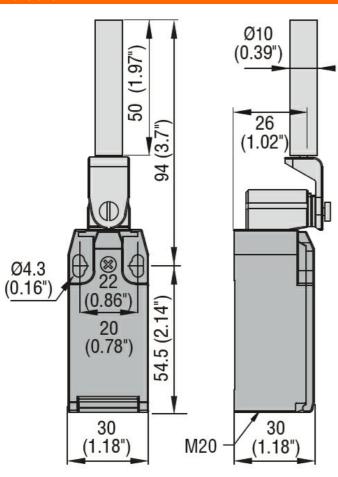
The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



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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
S	Storage temperature			
		min	°C	-40
		max	°C	+70
Resistance & Protection				
IP degree				
		Terminals		IP20
		Body housing		IP65
Pollution degree				3

Dimensions



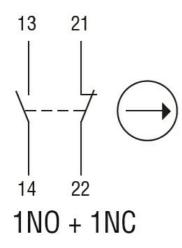
## Wiring diagrams

KBH1L11



KBH1L11 LIMIT SWITCH, K SERIES, CERAMIC ROD LEVER, 1 BOTTOM CABLE ENTRY. DIMENSIONS TO EN 50047, PLASTIC BODY, CONTACTS 1NO+1NC SLOW ACTION. CERAMIC ROD

## 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