

**KBL1L12** LIMIT SWITCH, K SERIES, ADJUSTABLE ROLLER LEVER, 1 BOTTOM CABLE ENTRY. electric DIMENSIONS TO EN 50047, PLASTIC BODY, CONTACTS 1NO+2NC SLOW ACTION. PLASTIC ROD



Interver     Interver       General characteristics     KBL       Material     Housing     Polymer thermoplastic       Rod     Aluminium-zinc alloy       Contact characteristics     1NO+2NC Slow action       Type of contact     1NO+2NC Slow action       Thermal current lth     A     10       IEC/EN 60947-5-1 designation     A600 Q600       Rated insulation voltage Ui     V     690       Rated insulation voltage Uinp     kV     6       Insulation class     II       Switching speed     In       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					
General characteristics         Housing Rod         Polymer Hermoplastic Aluminium-zinc alloy           Contact characteristics         Rod         alloy           Type of contact         1NO+2NC Slow action         Aluminium-zinc alloy           Thermal current lth         A         10           EC/CIN 60947-5-1 designation         A 6800 G600           Rated insulation voltage Ui         V         690           Rated insulation voltage Uimp         KV         6           Insulation class         II         II           Short-circuit protection with fuse         Class/A         10 g/S/C QUICK FUSE           Switching speed         min <m s<="" td="">         0.5           max         m/s         1.5           IEC Conventional free air thermal current lth         A         10           Methanical features         Internet transcurrent lth         A           Operating head fixing         Locking bayonel insert         02           Operating torque         Ncm         3         02           Operating torque         Ncm         3         02           Contact terminals         Nm         0.8         1bin           Body lid screw fixing         Nm         0.8         1bin           Ibin</m>	Product designation				lever
Material           Housing         Polymer thermoplastic Aluminium-zinc alloy           Contact characteristics         INO+2NC Slow action           Type of contact         NO+2NC Slow action           Thermal current lth         A         10           EC/EN 60947-5-1 designation         A         10           Rated insulation voltage Ui         V         630           Rated insulation voltage Uinp         V         6           Insulation class         II         10           Short-circuit protection with fuse         Class/A         10 gG/SC QuilCK FUSE           Switching speed         min         m/s         1.5           EC Conventional free air thermal current lth         A         10         0           Mechanical features         uncertain action         QuilCK FUSE         QuilCK FUSE           Switch fixing         model         A         10           Operating head fixing         Locking bayonel insert         Insert           Operating torque         Nm         2.5           Tightening torque (Max)         Switch fixing         Nm         2.5           Gontact terminals         Nm         0.8         Ibin         7           Body lid screw fixing         Nm         0.8         Ibin					KBL
Housing Rod         Polymer thermoplastic Aluminitum-zinc alloy           Contact characteristics         NO+2NC Slow action           Thermal current lth         A         10           EC/EN 603/47-5-1 designation         A600 C6600           Rated insulation voltage Ui         V         690           Rated insulation voltage Uimp         kV         6           Insulation class         II         II           Short-circuit protection with fuse         Class/A         10 gG/SC max         10 gG/SC max           Switching speed         min         n/s         0.5           Mechanical features         ump(K FUSE)         10           Operating head fixing         min         n/s         1.5           Operating torque (Max)         Switch fixing         Nm         2.5           Tightening torque (Max)         Switch fixing         Nm         2.5           Contact terminals         Nm         0.8         1bin           Body lid screw fixing         Nm         0.8         1bin           Conductor section         AWG/Kcmil         min         16		CS			
Kod         alloy           Contact characteristics         1NO+2NC Slow action           Type of contact         1NO+2NC Slow action           Thermal current Ith         A         10           EC/EN 60947-5-1 designation         A600 Q600           Rated insulation voltage U1         V         690           Rated insulation voltage U1         V         690           Rated insulation class         II         II           Short-circuit protection with fuse         Class/A         10 gG/SC QUICK FUSE           Switching speed         min <m stass<="" td="">         n/s         0.5           Max         m/s         1.5         IEC Conventional free air thermal current Ith         A         10           Resistance per pole (average value)         mΩ         &lt;10</m>	Material		Housing		
Type of contact         1NO+2NC Slow action           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         II           Short-circuit protection with fuse         Class/A         10 gG/SC QUICK FUSE           Switching speed         min         m/s         0.5           Switching speed         min         m/s         1.5           IEC Conventional free air thermal current lth         A         10           Resistance per pole (average value)         mΩQ         <10			Rod		
1ybe of contact         action           Thermal current lth         A         10           IEC/EN 60947-5-1 designation         A600 Q600           Rated insulation voltage Ui         V         690           Rated insulation voltage Ui         V         6           Insulation class         II         III           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	Contact characteristic	S			
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 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) mΩ <10 Mechanical features Operating head fixing Locking bayonel insert Operating torque (Max) Tightening torque (Max) Switch fixing Nm 0.8 Ibin 7 Conductor section AWG/Kcmil AWG/Kcmil TEC	Type of contact				1NO+2NC Slow action
Rated insulation voltage Ui         V         690           Rated impulse withstand voltage Uimp         kV         6           Insulation class         II         10 gG/SC QUICK FUSE           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 lth         A         10           Resistance per pole (average value)         mΩ         <10	Thermal current Ith			Α	
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					
Insulation class II II 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 Class/A 10 Resistance per pole (average value) mQ <10 Mechanical features Operating torque Norm 3 ozin 4.25 Tightening torque (Max) Switch fixing Nrm 2.5 Ibin 22.1 Contact terminals Nrm 0.8 Ibin 7 Conductor section AWG/Kcmil II 10 gG/SC QUICK FUSE Nite 16 III 10 gG/SC QUICK FUSE Nite 16 Ibin 7 III 10 gG/SC QUICK FUSE Nite 15 Ibin 25 Ibin 25 Ibin 22.1 Ibin 22.1 Ibin 22.1 Ibin 7 Ibin 16 max 14 Ibin 7 Ibin 16 Ibin 1		-			
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		and voltage Uimp		kV	
Since check protection with hose 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) mΩ <10 Mechanical features Operating head fixing 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	Insulation class				
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		n with fuse		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 Ith A 10 Resistance per pole (average value) mΩ <10 Mechanical features Locking bayone insert Operating head fixing Locking bayone 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 AWG/Kcmil IEC					
Resistance per pole (average value)       mΩ       <10	IFC Conventional free		max		
Mechanical features       Locking bayonel insert         Operating head fixing       Ncm 3 ozin 4.25         Tightening torque (Max)       Switch fixing         Switch fixing       Nm 2.5 lbin 22.1         Contact terminals       Nm 0.8 lbin 7         Body lid screw fixing       Nm 0.8 lbin 7         Conductor section       AWG/Kcmil         MWG/Kcmil       min 16 max 14					
Operating head fixing     Locking bayoned insert       Operating torque     Ncm     3       Ncm     3     ozin     4.25       Tightening torque (Max)     Switch fixing     Nm     2.5       Contact terminals     Nm     0.8       Body lid screw fixing     Nm     0.8       Ibin     7       Conductor section     AWG/Kcmil     min       IEC     Itel     14				11122	<10
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         Ibin         7           Body lid screw fixing         Nm         0.8         Ibin         7           Conductor section         AWG/Kcmil         min         16         max         14           IEC	Operating head fixing				Locking bayonet
Ncm         3           ozin         4.25           Tightening torque (Max)         Switch fixing           Switch fixing         Nm           2.1         1bin           Contact terminals         Nm           Body lid screw fixing         Nm           Nom         0.8           Ibin         7           Conductor section         Nm           AWG/Kcmil         min           IEC         14	Operating torque				insert
Tightening torque (Max)     Switch fixing     Nm     2.5       Ibin     22.1       Contact terminals     Ibin     22.1       Ibin     7       Body lid screw fixing     Nm     0.8       Ibin     7       Conductor section     AWG/Kcmil     inin       AWG/Kcmil     min     16       IEC     IEC     Itel	oporating torquo			Ncm	3
Tightening torque (Max)       Switch fixing       Nm       2.5         lbin       22.1         Contact terminals       Nm       0.8         lbin       7         Body lid screw fixing       Nm       0.8         lbin       7         Conductor section       AWG/Kcmil       min         AWG/Kcmil       14         IEC       IEC					
Switch fixing           Switch fixing         Nm         2.5           Ibin         22.1           Contact terminals         Nm         0.8           Ibin         7           Body lid screw fixing         Vm         0.8           Ibin         7           Conductor section         AWG/Kcmil         min           AWG/Kcmil         16           IEC         14	Tightening torque (Ma	x)		-	
Ibin       22.1         Contact terminals       Nm       0.8         Ibin       7         Body lid screw fixing       Nm       0.8         Ibin       7         Conductor section       AWG/Kcmil       min					
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				Nm	2.5
Nm       0.8         Ibin       7         Body lid screw fixing       Nm       0.8         Ibin       7         Conductor section       AWG/Kcmil       16         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 min 16 max 14 IEC					
Nm 0.8 Ibin 7 Conductor section AWG/Kcmil min 16 max 14 IEC				lbin	7
Ibin     7       Conductor section     AWG/Kcmil       min     16       max     14		Body lid screw fixing			
Conductor section AWG/Kcmil min 16 max 14 IEC					
AWG/Kcmil min 16 max 14 IEC	Conductor costion			IDIN	1
min 16 max 14 IEC	CONTRACTOR SECTION				
max 14			min		16
IEC					
		IEC	indx		
			min	mm²	1or 2

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



Dimensions

**KBL1L12** LIMIT SWITCH, K SERIES, ADJUSTABLE ROLLER LEVER, 1 BOTTOM CABLE ENTRY. electric DIMENSIONS TO EN 50047, PLASTIC BODY, CONTACTS 1NO+2NC SLOW ACTION. PLASTIC ROD

	max	mm²	2.5
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			
с С	Terminals		IP20
	Body housing		IP65
Pollution degree	,		3

- 33.6 -(1.32") Ø3 32-208 (1.26"-8.19") (0.12")200 (7.87") 1 8 Ø4.3-(0.16") 22 (0.86") .5 (2.14' 20 (0.78")54. 30 30 M20 (1.18" (1.18"

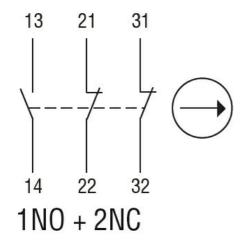
## Wiring diagrams

KBL1L12



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Slow action



Certifications and col	mpliance	
Compliance		
	CSA C22.2 n° 14	
	EN 50047	
	IEC/EN 60204-1	
	IEC/EN 60947-1	
	IEC/EN 60947-5-1	
	UL508	
Certificates		
	000	
	cULus	
	EAC	
ETIM classification		
		EC000030 - End

ETIM 8.0

switch