### KMM2A11



LIMIT SWITCH, K SERIES, WOBBLE STICK, OMNIDIRECTIONAL, 1 BOTTOM CABLE ENTRY. DIMENSIONS TO EN 50047, METAL BODY, CONTACTS 1NO+1NC SLOW ACTION MAKE BEFORE BREAK. SEMIRIGID ROD



Product designation	Wobble stick, omnidirectional
Product type designation	KMM
General characteristics	
Material	

Rod         Semirigid           Contact characteristics         INO+1NC Slow action make before break           Thermal current lith         A         10           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         00           Operating head fixing         Locking bayonet insert         00         1.42         1.42           Tightening torque (Max)         Switch fixing         Nm         2.5         1.5           Econductor section         Nm         0.8         1.5         1.5           Conductor section         A         10         0.8         1.5           Ibin         2.5         1.6         2.5         1.5         1.6           Conductor section         Nm         0.8         1.5         1.6	Material		Housing		Aluminium-zinc alloy
Type of contact IND-t1NC Slow action make before break before break before break to before break tobe break to before break t			Rod		Semirigid
Type of contact     action make before break	Contact characteristics	6			
IEC/EN 60947-5-1 designation A300 Q300 Rated insulation voltage Ui Rated insulation voltage Uimp KV 440 Rated impulse withstand voltage Uimp KV 4 Short-circuit protection with fuse Class/A 10 gG/SC QUICK FUSE Witching 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) Mechanical features Operating head fixing Operating torque KV	Type of contact				action make
Rated insulation voltage Ui       V       440         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	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)       mQ       <10	IEC/EN 60947-5-1 des	signation			A300 Q300
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 insulation voltage	je Ui		V	440
Short-Circuit protection with fuse     Class/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	Rated impulse withsta	nd voltage Uimp		kV	4
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	a 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         Mechanical features       Locking bayonet insert         Operating head fixing       Locking bayonet insert         Operating torque       Ncm       1         Tightening torque (Max)       Switch fixing       Nm       2.5         Ibin       22.1       Contact terminals       Nm       0.8         Body lid screw fixing       Nm       0.8       Ibin       7         Conductor section       AWG/Kcmil       min       16       max       14         IEC       min       min       16       min       10 f			max	m/s	
Mechanical features       Locking bayonet insert         Operating head fixing       Locking bayonet insert         Operating torque       Ncm       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       Nm       16         AWG/Kcmil       min       16       max       14	IEC Conventional free	air thermal current Ith		Α	
Operating head fixing       Locking bayonet insert         Operating torque       Nom       1         Operating torque (Max)       Nom       1.42         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       10.8         Ibin       7       10.8         Ibin       7       10.8         Ibin       7       10.8         Ibin       7       14         IEC       min       mm²       10r 2		average value)		mΩ	<10
Operating nead fixing         insert           Operating torque         Ncm         1           Tightening torque (Max)         Switch fixing         Nm         2.5           Ibin         22.1         Ibin         22.1           Contact terminals         Nm         0.8           Body lid screw fixing         Nm         0.8           Ibin         7         Ibin           Conductor section         AWG/Kcmil         min           IEC         min         16           min         mm         14	Mechanical features				
Ncm         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	Operating head fixing				
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         Nm         16         14           IEC         min         14	Operating torque				
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       Ibin         AWG/Kcmil       min       16         IEC       min       14				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 16 max 14 IEC min mm² 10r 2				ozin	1.42
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         7           IEC         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       Nm       0.8         AWG/Kcmil       min       7         IEC       min       16         min       14         IEC       min       mm²		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       7         AWG/Kcmil       min       16         IEC       14         IEC       min       mm²         1 or 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       min     16       max     14       IEC     min     mm²       min     mm²     1 or 2				Ibin	1
Ibin         7           Conductor section         AWG/Kcmil         I		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> 1or 2	Conductor contion			nidi	1
min 16 max 14 IEC min mm <sup>2</sup> 1or 2	Conductor 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		IFC	max		
			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

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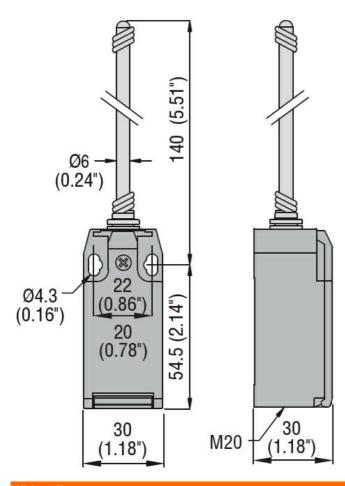


ENERGY AND AUTOMATION

LIMIT SWITCH, K SERIES, WOBBLE STICK, OMNIDIRECTIONAL, 1 BOTTOM CABLE ENTRY. DIMENSIONS TO EN 50047, METAL BODY, CONTACTS 1NO+1NC SLOW ACTION MAKE BEFORE BREAK. SEMIRIGID ROD

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	วท			
IP degree				
		Terminals		IP20
		Body housing		IP65
Pollution degree				3





### Wiring diagrams

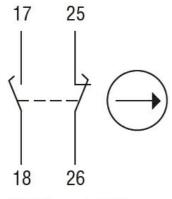
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## **KMM2A11**



LIMIT SWITCH, K SERIES, WOBBLE STICK, OMNIDIRECTIONAL, 1 BOTTOM CABLE ENTRY. DIMENSIONS TO EN 50047, METAL BODY, CONTACTS 1NO+1NC SLOW ACTION MAKE **BEFORE BREAK. SEMIRIGID ROD** 

# Slow action



# 1NO + 1NC make before break

Certifications and c	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		
ETIM 8.0		EC000030 - End