ENERGY AND AUTOMATION

Material

LIMIT SWITCH, K SERIES, ROLLER LEVER PLUNGER, 2 SIDE CABLE ENTRY. DIMENSIONS COMPATIBLE TO EN 50047, METAL BODY, CONTACTS 3NC SLOW ACTION. PLASTIC ROLLER



KNE1L11

Product designation	Roller lever plunger
Product type designation	KNE
General characteristics	

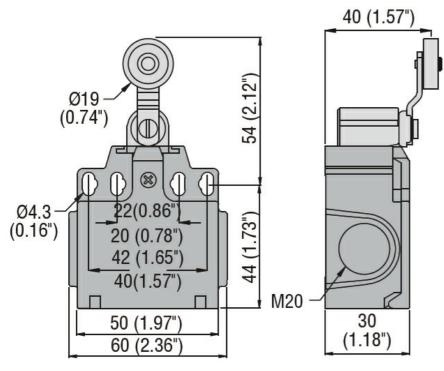
Roller Plastic Contact characteristics Type of contact INO+1NC Slow action Thermal current lth A 10 IEC/EN 60947-5-1 designation A300 0300 Rated insulation voltage Ui V 440 Rated insulation voltage Ui V 440 Rated insulation voltage Ui V 440 Short-circuit protection with fuse Class/A 10 gG/SC QUICK FUSE Switching speed min m/s 1.5 IEC Conventional free air thermal current lth A 10 Resistance per pole (average value) mQ <10 Mechanical features Ucoking bayonet insert 0 Operating head fixing Locking bayonet insert 4.25 Operating torque Nm 3. Operating torque (Max) Switch fixing Nm 2.5 Ibin 7 10 10 Decide up fixing Nm 0.8 10 Operating torque (Max) Switch fixing Nm 2.5 Ibin 7 10 10 Conductor section Nm 0.8 10 Ibin 7 10 10 Ibin 7 10	Material		Housing		Aluminium-zinc alloy
Type of contact 1NO+1NC Slow action Thermal current lth 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<="" td=""> 0.5 max m/s 1.5 IEC Conventional free air thermal current lth A 10 Resistance per pole (average value) mQ <10</m>			Roller		
Type of contact action Thermal current lth A 10 EC/EN 60947-5-1 designation A300 Q300 Rated insulation voltage Ui V 440 Rated insulation voltage Ui V 440 Class/A 10 gG/SC QUICK FUSE Switching speed min m/s 0.5 max m/s 1.5 EC Conventional free air thermal current lth A 10 Resistance per pole (average value) mΩ <10	Contact characteristics	5			
Thermal current lth A 10 IEC/EN 60947-5-1 designation A300 Q300 Rated insulation voltage Uinp KV 4 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) mQ 10 Mechanical features Ucking bayonet insert 0 Operating head fixing Locking bayonet insert Ucking bayonet insert Operating torque Ncm 3 ozin 4.25 Tightening torque (Max) Switch fixing Nm 2.5 lbin 22.1 Conductor section AWG/Kcmil Nm 0.8 lbin 7 Conductor section AWG/Kcmil min 16 max 14	Type of contact				
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 1.5 IEC Conventional free air thermal current lth A 10 Resistance per pole (average value) mΩ <10	Thermal current Ith			А	
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	ge Ui		V	440
Since click protection with ruse classifier 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	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) 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	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	IEC Conventional free	air thermal current Ith		А	10
Operating head fixing Locking bayonet insert Operating torque Nom 3 ozin 3 Tightening torque (Max) Switch fixing 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 IEC min 16 min 14	Resistance per pole (a	average value)		mΩ	<10
Operating nead fixing insert Operating torque Ncm 3 Operating 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 IEC min 16 min mm 10r 2	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 Body lid screw fixing Nm MMG/Kcmil 16 min 16 max 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 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 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 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		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 min 16 IEC 14 IEC 10 r 2		Contact terminals			
Body lid screw fixing Nm 0.8 Ibin 7 Conductor section AWG/Kcmil ibin AWG/Kcmil min 16 IEC min 14 IEC min mm²					
Nm 0.8 Ibin 7 Conductor section AWG/Kcmil		<u> </u>		lbin	7
Ibin 7 Conductor section AWG/Kcmil I		Body lid screw fixing		N.L.	
Conductor section AWG/Kcmil min 16 max 14 IEC min mmm²					
AWG/Kcmil min 16 max 14 IEC min mm ² 1or 2	Conductor contian			nidi	1
min 16 max 14 IEC min mm² 1 or 2	Conductor section	AW/G/Kemil			
max 14 IEC min mm² 1 or 2			min		16
IEC min mm ² 1or 2					
min mm ² 1or 2		IEC	Παλ		
			min	mm²	1or 2
			max	mm²	2.5

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Cable connection				Self-releasing screw terminal
Cable entry				M20 on the sides
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 & Protecti	on			
IP degree				
		Terminals		IP20
		Body housing		IP65
Pollution degree				3
Dimensions				

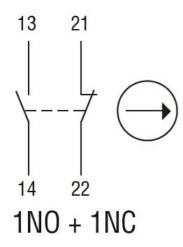


Wiring diagrams



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Slow action



Certifications and o	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

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switch