# ENERGY AND AUTOMATION

#### LIMIT SWITCH, K SERIES, ADJUSTABLE ROLLER LEVER, 1 BOTTOM CABLE ENTRY. DIMENSIONS TO EN 50047, METAL BODY, CONTACTS 1NO+1NC SLOW ACTION MAKE BEFORE BREAK. RUBBER ROLLER WITH OFFSET ALIGNMENT



**KMF4A11** 

Product designation				Adjustable roller
Product type designation	on			lever KMF
General characteristics				
Material				
material				Aluminium-zinc
		Housing		alloy
		Roller		Rubber
Contact characteristics				
Type of contact				1NO+1NC Slow action make before break
Thermal current Ith			Α	10
IEC/EN 60947-5-1 des	signation			A300 Q300
Rated insulation voltag			V	440
Rated impulse withstar			kV	4
Short-circuit protection			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		А	10
Resistance per pole (a	verage value)		mΩ	<10
Mechanical features				
Operating head fixing				Locking bayonet insert
Operating torque				
			Ncm	3
			ozin	4.25
Tightening torque (Max	)			
	Switch fixing			
			Nm	2.5
			lbin	22.1
	Contact terminals			
			Nm	0.8
			lbin	7
	Body lid screw fixing		Nime	0.0
			Nm Ibin	0.8 7
Conductor section			IDIN	1
	AWG/Kcmil			
		min		16
		max		14
	IEC			
		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

max

mm²

2.5



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Cable entry M20 on the bottom Mechanical life cycles < 10000000 Mechanical operation cycles/h 3600 Ambient conditions 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 Body housing IP65 Pollution degree 3 Dimensions 5 51.566.5 (2.02"2.61")	Cable connection					Self-releasing screw terminal
Operations       cycles / 1000000         Mechanical life       cycles / 3600         Ambient conditions       cycles/h 3600         Temperature <ul> <li>Operating temperature</li> <li>min °C 2 - 25 max °C 470 max °C 470</li> <li>rec 400 max °C 470</li> </ul> Resistance & Protection <ul> <li>P degree</li> <li>Terminals IP20 Body housing IP85</li> <li>Pollution degree</li> <li>3</li> </ul> Otherwise         3	Cable entry					M20 on the
Mechanical operation       cycles/h       3600         Ambient conditions       President conditions       min       °C       -25         Imax       °C       +70         Storage temperature       min       °C       -40         max       °C       -3         Pollution degree       3       -         0       -       -       -         0       -       -       -       -         0       -       -						
Ambient conditions Temperature Operating temperature Min °C -25 max °C +70 Storage temperature min °C -40 max °C +70 Resistance & Protection IP degree Pollution degree Dimensions 51.566.5 (2.02"2.61") 51.566.5 (2.02"2.61") 04.3 01.97"x0.39" 04.3 01.97"x0.39" 04.3 01.97"x0.39" 04.3 01.97"x0.39" 04.3 01.97"x0.39" 04.3 01.97"x0.39" 04.3 01.97"x0.39" 04.3 01.97"x0.39" 05.05 01.97"x0.39" 04.3 01.97"x0.39" 05.05 01.97"x0.39" 05.05 01.97"x0.39" 05.05 01.97"x0.39" 05.05						
Temperature Operating temperature $min  C & -25 \\ max  C & +70 \\ \hline Storage temperature \\ min  C & -40 \\ max  C & +70 \\ \hline Resistance & Protection \\ IP degree \\ \hline Terminals \\ Pollution degree \\ \hline Pollution degree \\ \hline Terminals \\ \hline Dimensions \\ \hline 51.566.5 (2.02"2.61") \\ \hline 050x10 \\ (1.97"x0.39" \\ 04.3 \\ (0.16") \\ \hline 050x10 \\ \hline 050x$					cycles/h	3600
Operating temperature         min $^{\circ}$ C       +70         min $^{\circ}$ C       +70         min $^{\circ}$ C       +40         max $^{\circ}$ C       +70         Resistance & Protection         Terminals       IP20         Body housing       IP20         Pollution degree       3         Other set to be a set to						
$\frac{\min \ C \ -25}{\max \ C \ +70}$ Storage temperature $\frac{\min \ C \ -25}{\max \ C \ +70}$ $\frac{\min \ C \ -40}{\max \ C \ +70}$ Resistance & Protection P degree Terminals IP20 Body housing IP65 Pollution degree 3 Dimensions $51.566.5 (2.02"2.61")$	remperature	Operating temperature				
Storage temperature       min °C -40 max °C +70         Resistance & Protection         IP degree       Terminals IP20 Body housing IP65         Pollution degree 3         Dimensions         51.566.5 (2.02"2.61")         Office of the second se				nin	°C	-25
min °C -40 max °C +70 Resistance & Protection IP degree Terminals IP20 Body housing IP65 Pollution degree 3 Dimensions 51.566.5 (2.02"2.61")			n	nax	°C	+70
resistance & Protection IP degree Terminals IP20 Body housing IP65 Pollution degree 3 Dimensions 51.566.5 (2.02"2.61") 51.566.5 (2.02"2.61") 51.566.5 (2.02"2.61") 050x100		Storage temperature				
Resistance & Protection IP degree Terminals IP20 Body housing IP65 Pollution degree 3 Dimensions 51.566.5 (2.02"2.61") 51.566.5 (2.02"2.61") 050x10 (1.97"x0.39" 04.3 (0.16") 050x10 0						
IP degree Terminals IP20 Body housing IP65 Pollution degree 3 Dimensions 51.566.5 (2.02"2.61") 050x10 (1.97"x0.39") 04.3 01.6" 04.3 01.6" 050x10 070 070 070 070 070 070 070 0	Posistanco & Protoctic	n	n	nax	50	+70
Terminals         IP20           Body housing         1P65           Pollution degree         3						
Body housing         IP65           Pollution degree         3           Dimensions         51.566.5 (2.02"2.61") Ø50x10	li degree		Termin	als		IP20
51.566.5 (2.02"2.61") 51.566.5 (2.02"2.61") (050x10 (1.97"x0.39") 04.3 (0.16") 04.3 (0.16") 050x10						
51.566.5 (2.02"2.61")	Pollution degree		· · · · · ·			3
Ø4.3 (0.16") 07 (0.16") 07 (0.16") 07 (0.16") 07 (0.16") 07 (0.16") 07 (0.16")	Dimensions					
		2.14") 84127 (3.30" 5")				

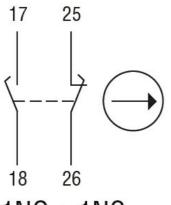
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Wiring diagrams

## Slow action



### 1NO + 1NC make before break

Certifications and	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	n	
ETULOO		EC000030 - End

**ETIM 8.0** 

EC000030 - End switch