



Product designation     Safety switches with solenoid       Product type designation     KEN1       General characteristics     Fourmer       Housing Material     Polymer       Contact characteristics     Polymer       Type of contact     2NC+1NO       Type of contact     2NC+1NO       Thermal current lth     A     10       IEC/EN 60947-5-1 designation     A300 Q300       Rated insulation voltage Ui     V     250       Rated insulation voltage Uimp     kV     2.5       Short-circuit protection with fuse     Class/A     10 gG       IEC Conventional free air thermal current lth     A     10       Operations     Understand voltage Uimp     kV     2.5       Blod     cycles     1000000       B10d     cycles     1000000       B10d     cycles     1000000       Mechanical life     cycles     1000000       Operating head fixing     Screwed       Operating head fixing     Screwed       Operating torque     15 (actuator insertion), 30 (Release actuator insertion), 30 (Release actuator holding)       Tightening torque (Max)     Switch fixing     15 (actuator holding)       Tightening torque (Max)     Switch fixing     15 (actuator holding)       Body lid screw fixing     Nm				
Product type designation KEN1 General characteristics General characteristics Housing Material Polymer thermoplastic Contact characteristics Type of contact NNO (Key), Type of contact NNO (Key), Type of contact NNO (Key), Thermal current lth A 10 IEC/EN 60947-5-1 designation A 300 Q300 Rated insulation voltage Ui V 250 Rated insulation voltage Ui V 250 Short-circuit protection with fuse Class/A 10 gG IEC Conventional free air thermal current lth A 10 Operations Mechanical life cycles 4000000 Mechanical life down of the second	Product designation			
General characteristics         Polymer thermoplastic         General characteristics         Housing Material       Polymer thermoplastic         Contact characteristics         Type of contact       INO (Key).         Type of contact       INO (Key).         Thermal current lth       A       10         Termal current lth       A       10         IEC Conventional free air thermal current lth       A       10         Class/A       10 gG         EC conventional free air thermal current lth       A       10         Departions       Class/A       10 gG         B10d       cycles       1000000         Mechanical life       cycles       1000000         Mechanical operation       cycles       1000000         Mechanical features         Operating head fixing       Screwed         Operating torque       15 (actuator insertion), 30 (Release actuator holdi	-			
General characteristics         Housing Material       Polymer thermoplastic         Contact characteristics         Type of contact       1NO (Key), 2NC+1NO (Solenoid)         Thermal current lth       A       10         IEC/EN 60947-5-1 designation       A300 Q300         Rated insulation voltage Uinp       KV       2.5         Short-circuit protection with fuse       Class/A       10 gG         IEC Conventional free air thermal current lth       A       10         Operations       Class/A       10 gG         Wechanical life       cycles       1000000         B10d       cycles       1000000         Mechanical life       cycles       1000000         Operations       Wechanical life       cycles         Operating torque       Screwed       000000         Mechanical life       cycles       1000000         Verating torque       Screwed       (Rele				KENT
Housing Material       Polymer thermoplastic         Contact characteristics       INO (Key), 2NC+1NO (Solenoid)         Type of contact       2NC+1NO (Solenoid)         Thermal current lth       A       10         IEC/EN 60947-5-1 designation       A 300 Q300         Rated insulation voltage Ui       V       250         Rated insulation voltage Uinp       kV       2.5         Short-circuit protection with fuse       Class/A       10 gG         IEC Conventional free air thermal current lth       A       10         Operations       V       2.5         Mechanical life       cycles       1000000         B10d       cycles       1000000         Mechanical life       cycles       1000000         Operating lead fixing       Screwed       Operating head fixing         Operating head fixing       Screwed       Screwed         Operating torque       15 (actuator insertion), 30 (Release actuator extraction), 1200 (locked actuator holding)         Tightening torque (Max)       Switch fixing       N       2.5				
Contact characteristics       Inversion         Type of contact       1NO (Key), 2NC+1NO (Solenoid)         Thermal current lth       A         Thermal current lth       A         IEC/EN 60947-5-1 designation       A300 Q300         Rated insulation voltage Ui       V         Z50       Rated insulation voltage Uimp         Rated insulation voltage Uimp       KV         2.5       Short-circuit protection with fuse         Conventional free air thermal current lth       A         0perations       1000000         B10d       cycles/h         Operation       cycles/h         Mechanical operation       cycles/h         Operating head fixing       Screwed         Operating head fixing       Screwed         Operating torque       15 (actuator insertion), 30 (Release actuato extraction), 1200 (locked actuator holding)         Tightening torque (Max)       Switch fixing         Tightening torque (Max)       Switch fixing         Nm       2.5				Polymer
Type of contact       1NO (Key), 2NC+1NO (Solenoid)         Thermal current lth       A       10         IEC/EN 60947-5-1 designation       A300 Q300         Rated insulation voltage Ui       V       250         Rated inpulse withstand voltage Uimp       KV       2.5         Short-circuit protection with fuse       Class/A       10 gG         IEC Conventional free air thermal current lth       A       10         Operations       Cycles       100000         B10d       cycles       400000         Output characteristics       600       00000         Mechanical life       cycles       100000         Operating head fixing       cycles       1000000         Mechanical life       cycles       100000         Operating head fixing       Screwed       000000         Operating head fixing       Screwed       00000         N       15 (actuator insertion), 30 (Release actuator extraction), 1200 (locked actuator holding)       15 (actuator insertion), 30 (Release actuator holding)         Tightening torque (Max)       Switch fixing       Nm       2.5         Contact terminals       Nm       0.8	Housing Material			
Type of contact     2NC+1NO (Solenoid)       Thermal current lth     A     10       IEC/EN 60947-5-1 designation     A300 0300       Rated insulation voltage Ui     V     250       Rated insulation voltage Uimp     kV     2.5       Short-circuit protection with fuse     Class/A     10 gG       IEC Conventional free air thermal current lth     A     10       Operations     Wechanical life     cycles     100000       B10d     cycles     4000000     0000       B10d     cycles     100000     00000       Mechanical life     cycles     1000000       Output characteristics     uncolored for the set of t	Contact characteristics			
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Thermal current lth       A       10         IEC/EN 60947-5-1 designation       A300 Q300         Rated insulation voltage Ui       V       250         Rated insulation voltage Uimp       kV       2.5         Short-circuit protection with fuse       Class/A       10 gG         IEC Conventional free air thermal current lth       A       10         Operations       0       00000       00000         B10d       cycles       1000000       00000         B10d       cycles       1000000       00000         Mechanical operation       cycles       1000000         Output characteristics       000000       00000         Mechanical life       cycles       1000000         Operating head fixing       Screwed       000000         Operating torque       15 (actuator insertion), 30 (Release actuato extraction), 1200 (locked actuator holding)         Tightening torque (Max)       Switch fixing       Nm       2.5         Contact terminals       Nm       0.8       0.8	Type of contact			
IEC/EN 60947-5-1 designation       A300 Q300         Rated insulation voltage Ui       V       250         Rated impulse withstand voltage Uimp       kV       2.5         Short-circuit protection with fuse       Class/A       10 gG         IEC Conventional free air thermal current Ith       A       10         Operations       Cycles       1000000         B10d       cycles       4000000         Mechanical life       cycles       1000000         Operations       cycles       1000000         Mechanical life       cycles       1000000         Operating torque       cycles       1000000         Mechanical life       cycles       1000000         Operating head fixing       cycles       1000000         Operating head fixing       Screwed       000000         Operating torque       15 (actuator insertion), 30 (Release actuator extraction), 1200 (locked actuator holding)         Tightening torque (Max)       Switch fixing       Nm       2.5         Contact terminals       Nm       0.8				· /
Rated insulation voltage Ui       V       250         Rated impulse withstand voltage Uimp       kV       2.5         Short-circuit protection with fuse       Class/A       10 gG         IEC Conventional free air thermal current Ith       A       10         Operations			A	
Rated impulse withstand voltage Uimp       kV       2.5         Short-circuit protection with fuse       Class/A       10 gG         IEC Conventional free air thermal current lth       A       10         Operations		-		
Short-circuit protection with fuse       Class/A       10 gG         IEC Conventional free air thermal current lth       A       10         Operations				
IEC Conventional free air thermal current lth       A       10         Operations		· · · ·		
Operations       Mechanical life       cycles       100000         B10d       cycles       400000       000         Mechanical operation       cycles/h       600       600         Output characteristics       mechanical life       cycles       100000         Mechanical features       operating head fixing       Screwed       Screwed         Operating torque       Screwed       15 (actuator insertion), 30 (Release actuato extraction), 1200 (locked actuator holding)         Tightening torque (Max)       Switch fixing       N       2.5         Contact terminals       N       0.8				<u> </u>
Mechanical life       cycles       100000         B10d       cycles       400000         Mechanical operation       cycles/h       600         Output characteristics       mechanical life       cycles       100000         Mechanical features       operating head fixing       Screwed       Screwed         Operating torque       screwed       15 (actuator insertion), 30 (Release actuator extraction), 1200 (locked actuator holding)         Tightening torque (Max)       Switch fixing       Nm       2.5         Contact terminals       Nm       0.8		air thermal current Ith	A	10
B10d       cycles       400000         Mechanical operation       cycles/h       600         Output characteristics           Mechanical life       cycles       100000         Mechanical features           Operating head fixing       Screwed          Operating torque       15 (actuator insertion), 30 (Release actuator extraction), 1200 (locked actuator holding)         Tightening torque (Max)       Switch fixing				
Mechanical operation       cycles/h       600         Output characteristics       mechanical life       cycles       100000         Mechanical features       Operating head fixing       Screwed         Operating torque       15 (actuator insertion), 30 (Release actuator extraction), 1200 (locked actuator holding)         Tightening torque (Max)       Switch fixing       N         Switch fixing       Nm       2.5         Contact terminals       Nm       0.8			-	
Output characteristics       Mechanical life       cycles       1000000         Mechanical features       Operating head fixing       Screwed         Operating torque       15 (actuator insertion), 30 (Release actuator extraction), 1200 (locked actuator holding)         Tightening torque (Max)       Switch fixing       Nm         Contact terminals       Nm       0.8				
Mechanical life       cycles       100000         Mechanical features       Screwed         Operating head fixing       Screwed         Operating torque       15 (actuator insertion), 30 (Release actuator extraction), 1200 (locked actuator holding)         Tightening torque (Max)       Switch fixing       Nm       2.5         Contact terminals       Nm       0.8	-		cycles/l	ר 600
Mechanical features       Screwed         Operating head fixing       Screwed         Operating torque       15 (actuator insertion), 30 (Release actuator extraction), 1200 (locked actuator holding)         Tightening torque (Max)       Switch fixing         Switch fixing       Nm 2.5         Contact terminals       Nm 0.8				400000
Operating head fixing       Screwed         Operating torque       15 (actuator insertion), 30 (Release actuator extraction), 1200 (locked actuator holding)         Tightening torque (Max)       Switch fixing         Switch fixing       Nm         Contact terminals       Nm         Nm       0.8			cycles	1000000
Operating torque       15 (actuator insertion), 30         N       (Release actuator extraction), 1200         (locked actuator holding)       (locked actuator holding)         Tightening torque (Max)       Switch fixing         Switch fixing       Nm         Contact terminals       Nm         Nm       0.8				<b>2</b>
15 (actuator insertion), 30 (Release actuato extraction), 1200 (locked actuator holding)         Tightening torque (Max)         Switch fixing         Nm       2.5         Contact terminals         Nm       0.8				Screwed
N       insertion), 30 (Release actuato extraction), 1200 (locked actuator holding)         Tightening torque (Max)       Switch fixing         Switch fixing       Nm         Contact terminals       Nm         Nm       0.8	Operating torque			
N       (Release actuator extraction), 1200 (locked actuator holding)         Tightening torque (Max)       Switch fixing				
Tightening torque (Max) Switch fixing Nm 2.5 Contact terminals Nm 0.8				
Tightening torque (Max)     (locked actuator holding)       Switch fixing     Nm     2.5       Contact terminals     Nm     0.8			N	
holding)       Tightening torque (Max)       Switch fixing       Mm       Contact terminals       Nm       0.8				
Tightening torque (Max) Switch fixing Nm 2.5 Contact terminals Nm 0.8				<b>`</b>
Switch fixing Nm 2.5 Contact terminals Nm 0.8	Tightening torque (Max			
Nm     2.5       Contact terminals     Nm     0.8				
Contact terminals Nm 0.8		- · · · · · · · · · · · · · · · · · · ·	Nm	2.5
Nm 0.8		Contact terminals		
			Nm	0.8
		Body lid screw fixing		
Nm 0.8		3	Nm	0.8
Conductor section	Conductor section			
IEC		IEC		
min mm² 1 or 2			min mm²	1 or 2
max mm² 1.5				1.5
Cable connection Self-releasing	Cable connection			Self-releasing
Cable connection screw terminal				
Cable entry 3 x M20	Cable entry			3 x M20

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



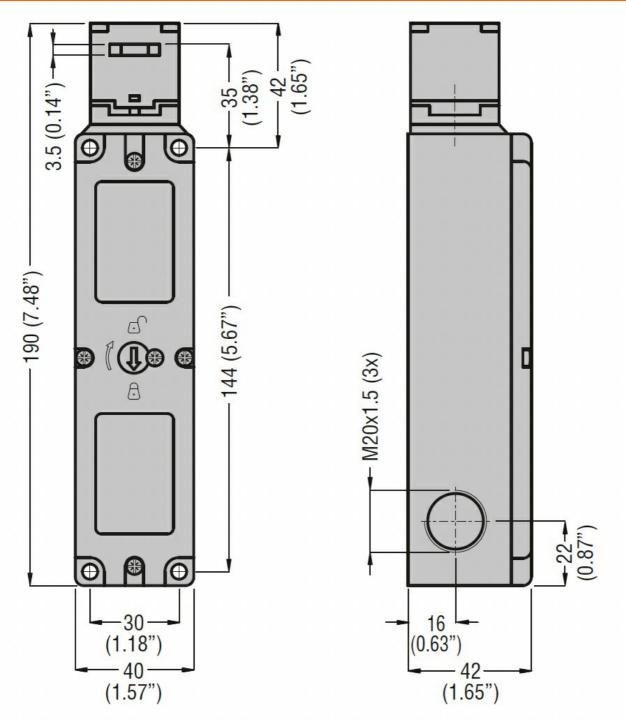
**KEN1E2230F** electric SAFETY SWITCH WITH SOLENOID. KEY CONTACTS 1NO. SOLENOID CONTACTS 2NC+1NO.

ENERGY AND AUTOMATION

SOLENOID SUPPLY 230VAC/DC

Weight			g	440
Ambient conditions				
Pollution degree				3
Temperature				
	Operating temperature			
		max	°C	+55
	Storage temperature			
		min	°C	-40
		max	°C	+70

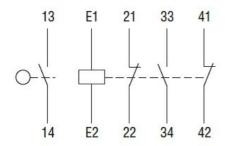
## Dimensions



## Wiring diagrams

KEN1E2230F





Certifications and cor	mpliance	
Compliance		
	CSA C22.2 n°14	
	IEC/EN 60204	
	IEC/EN 60947-1	
	IEC/EN 60947-5-1	
	UL508	
	UNI EN ISO 14119	
Certificates		
	cULus	
	EAC	
ETIM classification		
ETIM 8.0		EC000030 - End

switch

KEN1E2230F