



TKR SERIES - SPRING RETURN CAM SWITCHES

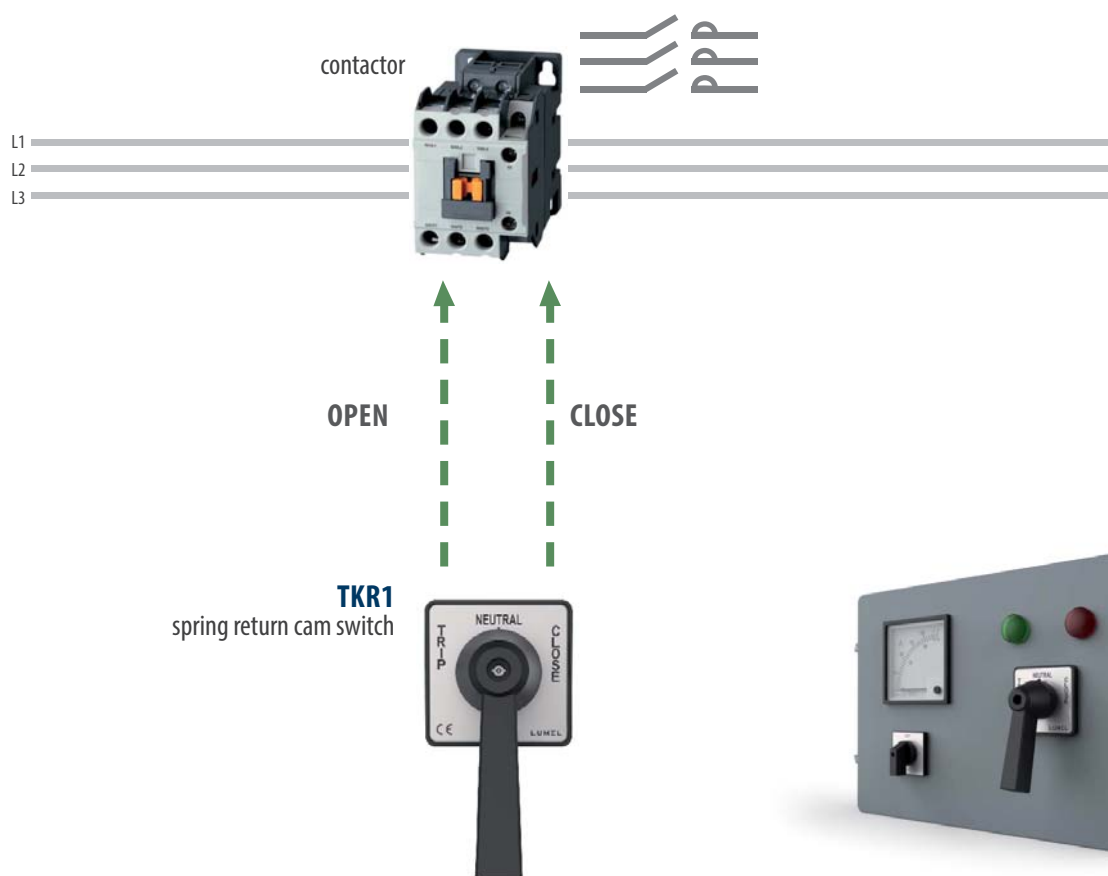
- Dedicated to supervision of circuit breakers.
- Quick and easy panel installation.
- Compact size.
- Multi pole design.
- 60 degree angle of throw.
- Spring Loaded Mechanism.

TYPES:

TKR1 - SPRING RETURN CAM SWITCHES 1xNO 1xNC

TKR2 - SPRING RETURN CAM SWITCHES 2xNO 2xNC

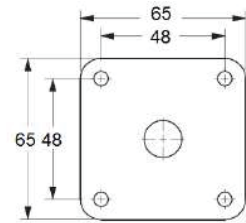
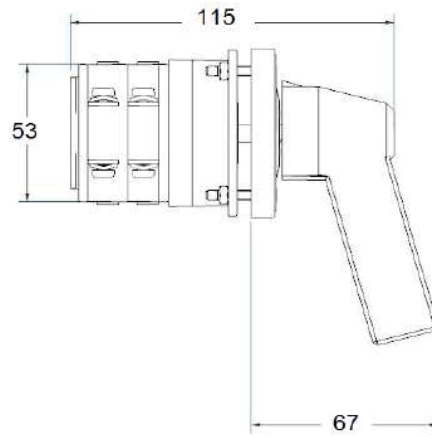
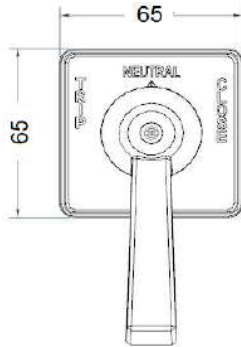
APPLICATION EXAMPLE



TKR SERIES

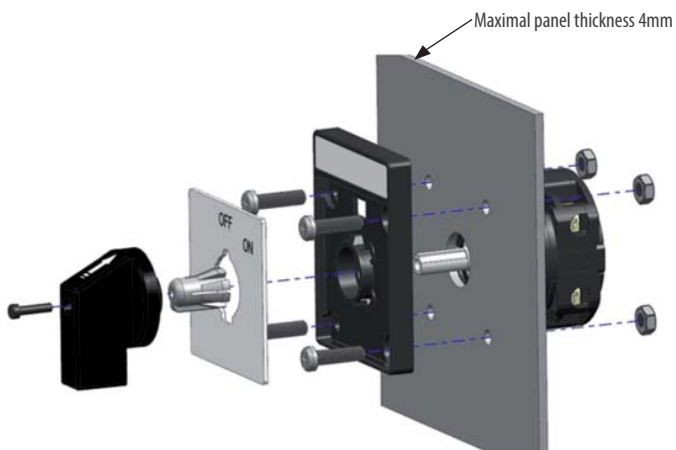
- SPRING RETURN CAM SWITCHES

EXTERNAL DIMENSIONS



Panel mounting

INSTALLATION



AC DUTY RATINGS

Class	Application
AC-1	Non-Inductive or slightly inductive loads ($\cos\phi \geq 0,95$); Resistance furnaces
AC-3	Squirrel-cage motors: starting switching off motors during running
AC-15	Control of AC electromagnetic loads
AC-21-A	Switching of resistive loads, including moderate overloads (frequent switching)
AC-23-A	Switching of motor loads or other highly inductive loads (frequent switching)

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TECHNICAL DATA

PARAMETERS		UNIT	25 A	32 A
Rated operational voltage (Ue)		V	690	690
Rated Insulation voltage (Ui)		V	690	690
Rated uninterupted current (Ith)		A	32	40
Rated short time withstand current (Icw)		A	300	384
Rated Impulse withstand voltage (Uimp)		kV	6	6
Rated Fuse short circuit current		kA	10	10
Fuse size (Type gG/ gM)		A	25	32
The power of the receiver in terms of use				
AC23A 3 phase	220-240 V	kW	4,7	5,5
	380-440V	kW	7,5	11
	500V	kW	11	15
	660-690V	kW	11	15
AC23A 1 phase	110V	kW	1,5	2,2
	220-240V	kW	3	3,7
	380-440V	kW	5,5	7,5
AC3 3 phase	220-240V	kW	4,7	5,5
	380-440V	kW	7,5	11
	500V	kW	11	15
	600-690V	kW	11	15
AC3 1 phase	110V	kW	1,5	2,2
	220-240V	kW	3	3,7
	380-440V	kW	5,5	7,5
AC21A/AC1		A	25	32
AC15	220-240V	A	8	14
	380-440V	A	5	6
Terminal cross -section				
Single / Multiple	Min	mm ²	2,5	2,5
	Max	mm ²	4	6
Fine strand with sleeve	Min	mm ²	1,5	1,5
	Max	mm ²	4	4
Terminal screw		metric	M4	M4
Terminal tightening torque		Nm	1,2	1,2

RATED OPERATING CONDITIONS

Frequency	50/60 Hz	
Operating temperature	-25°C...60°C	
Storage temperature	-40°C...80°C	
Installation category	III	
Altitude a.s.l.	2000 m	
Protection grade	IP50 from frontal side	IP20 from terminal side
Standards	IEC 60947-1 , IEC 60947-3, IEC 60947-5	

SWITCH LIFE

Mechanical Life	100 000 operations at 300 cycles/hr	
Electrical Life	10 000 operations at 100% rated duty at 120 cycles/hr	
Contacts	double break	type AgNi
	double break	type AgCdO

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WIRING DIAGRAMS AND CODING

SPRING RETURN CAM SWITCHES TKR1/TKR2

Ordering code TKR1-__2201N6L__000

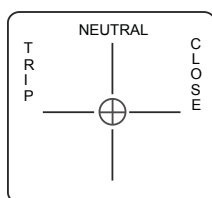
Spring return cam switch TKR1-	__	2	2	01	N	6	L	__	__	000
Rated current:										
25 A									A	
32 A									B	
Type:										
1xNO 1xNC			2							
Pole:										
2 poles			2							
Neutral:										
with Neutral					N					
Angle:										
60°						6				
Knob shape:										
Pistol Shape							L			
Front plate colour:										
silver background and black knob									A	
yellow background and red knob									B	
Acceptance tests:										
without additional quality requirements										0
with an extra quality inspection certificate										1
Version:										
standard										000
custom-made*										XXX

Ordering code TKR2-__4401N6L__000

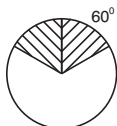
Spring return cam switch TKR2-	__	4	4	01	N	6	L	__	__	000
Rated current:										
25 A									A	
32 A									B	
Type:										
2xNO 2xNC			4							
Pole:										
4 poles						4				
Neutral:										
with Neutral					N					
Angle:										
60°						6				
Knob shape:										
Pistol Shape							L			
Front plate colour:										
silver background and black knob									A	
yellow background and red knob									B	
Acceptance tests:										
without additional quality requirements										0
with an extra quality inspection certificate										1
Version:										
standard										000
custom-made*										XXX

* - only after agreeing with the manufacturer

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Type	Description	25A	32A
		Stage number	
TKR1	contacts set 1xNO + 1xNC	1	1
TKR2	contacts set 2xNO + 2xNC	2	2

OUTPUT SIDE	1A	1B	1C	1D
				
INPUT SIDE	LA	LB	LC	LD
NEUTRAL				
TRIP	X		X	
CLOSE		X		X

