

# Industry-Relay SKR 085

# Pluggable Construction 2 pole 10A

# ELESTA



## Technical Data

Contact Data		
Type of Contact	Single Contact	Double Contact
No. of Contacts	2C	
Rated Voltage / Max. Switching Voltage VAC	250 / 440	
Rated Current A	10	6
Inrush Current A	40	15
Rated Breaking Capacity (cos φ = 1) VA	2500	1500
Contact Material	AgCuNi; +Au	

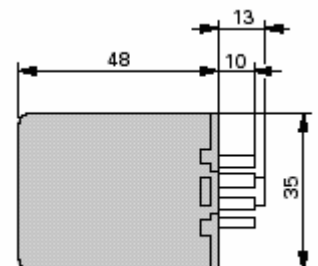
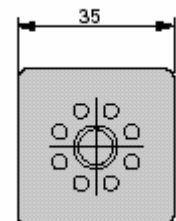
General Data		
Mechanical Data	> Operations	100 x 10 <sup>6</sup>
Electrical Life at Rated Voltage	> Operations	7 x 10 <sup>5</sup>   1,5 x 10 <sup>5</sup>
Max. Switching Frequency	Operations / h	360
Operate Time / Release Time DC	approx. in ms	12 / 3,5
Operate Time / Release Time AC	approx. in ms	3-10 / 2-15
Bounce Time A / B DC	approx. in ms	3,5 / 9
Bounce Time A / B AC	approx. in ms	3-6 / 6-11
Test Voltage Contact / Coil	≥ VAC <sub>eff</sub>	2000
Test Voltage Contact Open	≥ VAC <sub>eff</sub>	1500
Test Voltage Contact Poles	≥ VAC <sub>eff</sub>	1500
Vibration Resistance A / B (10-500Hz)		7g / 4g
Creeping-/Leakage Distance mm		2 / 3
Insulation Group / Rated Voltage (VDE 0110b 2/79)		C / 250
Ambient Temperature °C		-40...+75/+105
Approvals		VDE; UL; CSA;
Weight gr.		80

Coil at + 20°C		
Rated Voltage	VDC	12...110
Rated Voltage	VAC	12...230
Power Consumption (DC – Coil)	approx. W	1,2
Power Consumption (AC – Coil)	VA	2,5

DC-Coil				
U <sub>N</sub> (V)	R Ω (Ohm)	U <sub>AN</sub> (V)	U <sub>AB</sub> (V)	I <sub>N</sub> (mA)
12	115 ± 10%	≤ 9,6	≥ 0,6	104,0
24	480 ± 10%	≤ 19,2	≥ 1,2	50,0
48	1850 ± 10%	≤ 38,4	≥ 2,4	25,9
110	9000 ± 15%	≤ 88,0	≥ 5,5	12,2

AC-Coil				
U <sub>N</sub> (V)	R Ω (Ohm)	U <sub>AN</sub> (V)	U <sub>AB</sub> (V)	I <sub>N</sub> (mA)
12	13,3 ± 10%	≤ 9,6	≥ 1,8	211,0
24	52,0 ± 10%	≤ 19,2	≥ 3,6	104,0
48	240,0 ± 10%	≤ 38,4	≥ 7,2	55,0
110	1120 ± 10%	≤ 88,0	≥ 16,5	23,0
230	5600 ± 10%	≤ 184,0	≥ 34,5	11,5

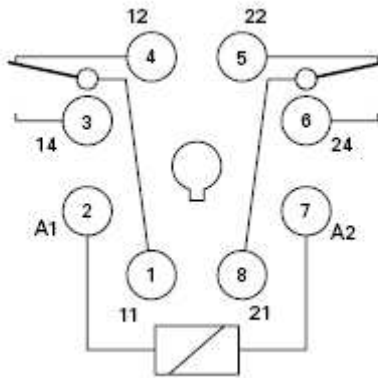
## Dimension Diagram



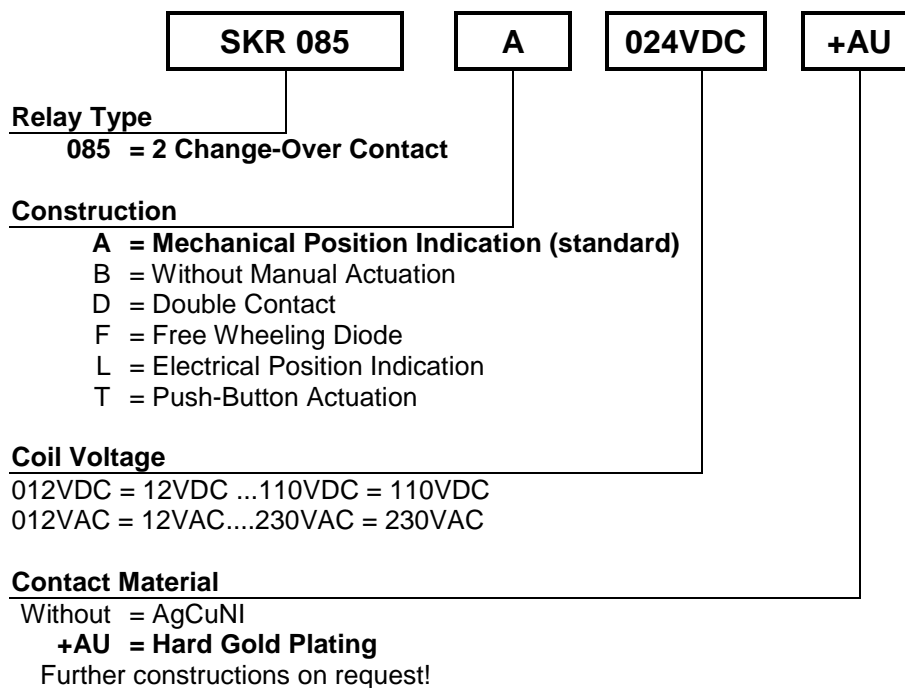
All measure in mm.

Other coil tensions on request.

Schematic Diagram



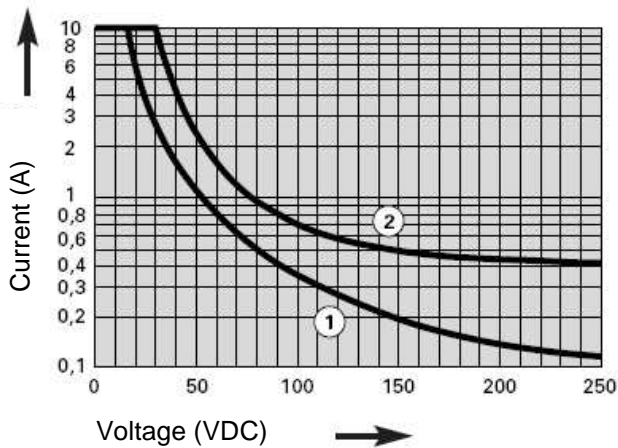
Order Type



**Electrical Specification**

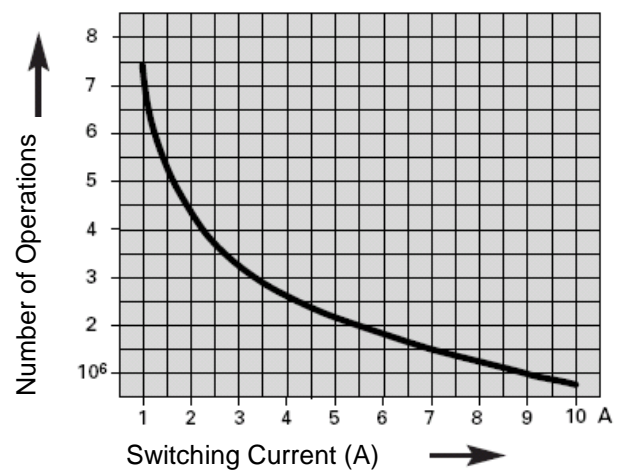
**Single Contact**

Load Limit Curve for Direct Current



- 1) Inductive Load, L/R 40 ms
- 2) Resistive Load

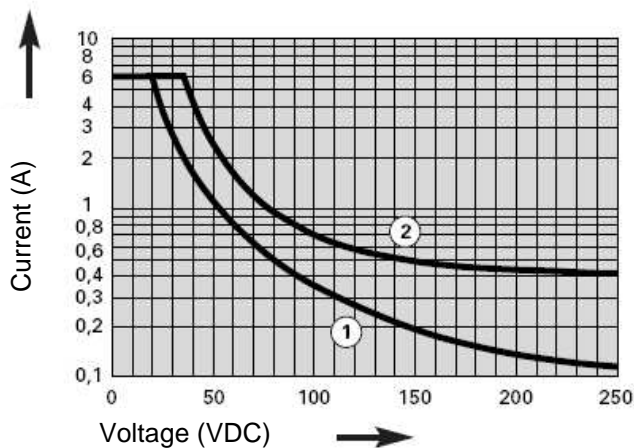
Contact Life Time



- AC Load Cos Phi (AC1)
- 250 VAC 50Hz 360 Operations/h

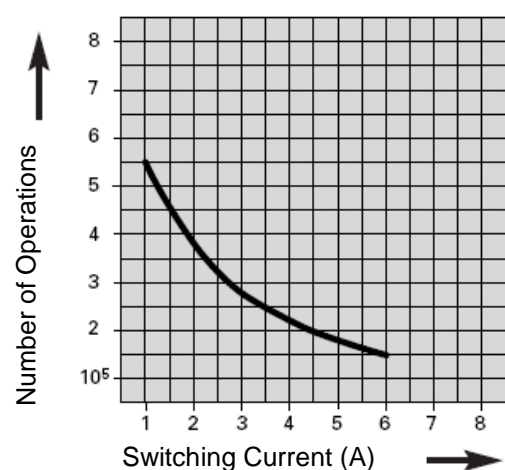
**Double Contact**

Load Limit Curve for Direct Current



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Contact Life Time



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- 250 VAC 50Hz 360 Operations/h