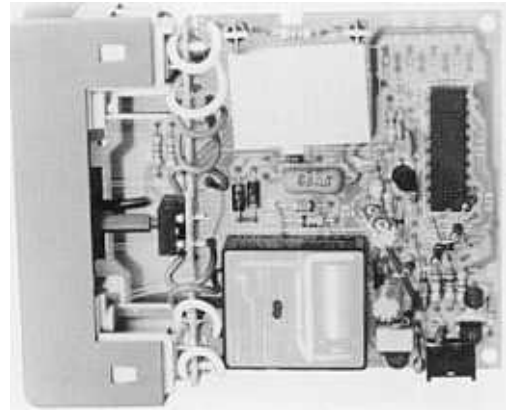


Technical data KOP.D/A/B



KOP.D



Timing characteristics

Time ranges	see ordering details
Accuracy of setting	$\pm 5\%$ of the time range final value
Repetition accuracy	$\pm 0.2\%$ of preset value under constant conditions
Reset time	max. 40 ms
Display for function	1 LED resp. 2 LED for KOP 270
Delay time variations	due to voltage variations: max. $\pm 0.1\%/ \Delta U$ due to temperature variations: max. $\pm 0.25\%/ ^\circ C$

Control circuit

Supply voltage	see ordering details, resetting on supply failure
Voltage tolerance	DC: $-15\%/+20\%$. AC: $-15\%/+10\%$
Power consumption	approx. 1 W
Duty cycle	100%

Output

Type of contact relay with hard-silver contacts resp. semiconductor outputs for KOP 711/742

Relay output	
Contact rating	alternating current: 6 A/250 VAC (ohmic load, AC1) 3 A/380 VAC (inductive load, AC11) direct current: 6 A/24 VDC (ohmic load, DC1), see diagram

Switching frequency	max. 4000 operations/h at rated load
Life expectancy	electrical: see diagram mechanical: 30 million operations

Semiconductor output	
Contact rating	1 A at rated voltage (lamp load)
Leakage current	≤ 5 mA
Voltage drop	approx. 3 V when switched on
Switching frequency	max. 4000 operations/h at rated load
Life expectancy	> 30 million operations

KOP.A



KOP.B



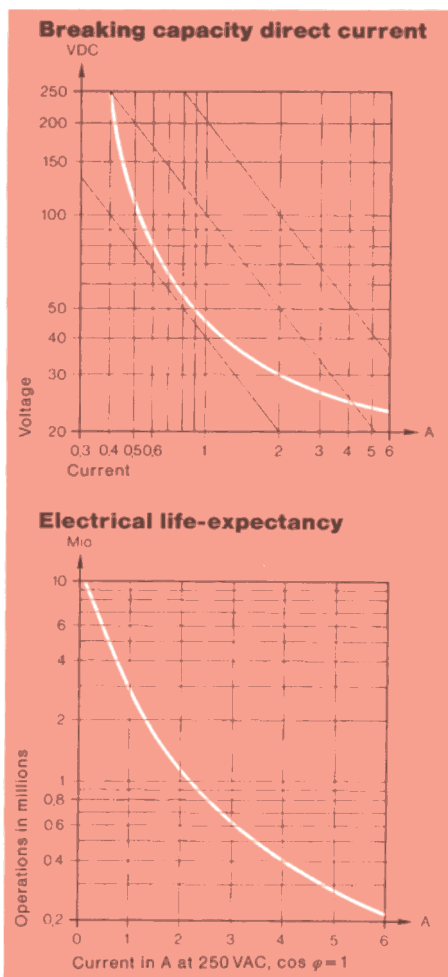
External potentiometer

Order No. CJ 888



The control unit is a microprocessor which manages the chosen function, timing, LED indication and output state. The time base is an oscillator whose frequency can be varied by the setting knob.

KOP



Control (for timers with pulse control)	
Type of control contact	Potential-free contact (not isolated from supply in timer circuitry; use low-voltage material for wiring)
Control contact loading	1 mA at 15 VDC
General data	
Test voltage	2 kV/50 Hz across supply voltage connections and outputs according to VDE 0435/201
Surge voltage strength	5 kV 1.2/50 μs in compliance with IEC, publication 60 (DIN 75106/100)
Immunity to interference	> 6 kV at input and output in conformity with IEC 801-4 > 2.5 kV in conformity with IEC 255-4 test procedure E5, class III
Protection class	Case IP 40 and terminals IP 20 in conformity with DIN 40050 Safeguarded against finger contact in conformity with DIN 75106
Ambient temperature	operation: -20 °C to +60 °C storage: -40 °C to +85 °C
Climatic conditions	class E in conformity with DIN 40040
Resistance to vibration	reliability of performance 4 g; mechanical resistance 5 g; according to IEC 68-2-6, test FC in 3 planes at 10...500 Hz during 6 hours
Resistance to shock	50 g; according to IEC 68-2-27, 3 shocks in each plane
Connections	KOP.D, KOP.A resp. plug-in socket CJ 250 (KOP.B) screw terminals for 2 × 2.5 mm ² (single-wire) or 2 × 1.5 mm ² (multistrand with end sleeve) AWG 13 to AWG 20
Mounting	- snap-on mounting on rail 35 mm (DIN 46277 resp. EN 50022) - screw fixing, KOP.D/A with adaptor (see accessory) - KOP.B plug-in on socket in conformity with IEC 67-1-18a Mounting position: any
Weight	KOP.D: approx. 110 g KOP.A: approx. 155 g/180 g for KOP 270.A KOP.B: approx. 115 g/145 g for KOP 270.B
Approvals	SEV, DEMKO UL, CSA to 250 V (needs to be indicated when ordering)