

Technical Data

Relay 707 L

Description

Relay, polarized latching for capacitive load up to 140 μ F and lamp load up to 2,500 W

Using the H-armature principle the polarised latching relays are noted for their high resistance to shocks and vibrations. They are always in a defined switching-position and therefore there is no loss of information in case of power failure. The advantage of polarised latching relays is the pulse driven operation of some milliseconds, coil heating can be neglected. Relay can also be set by manual operation.

The relays are designed and manufactured in accordance to international Standards of IEC and 61810 part 1/VDE 0435 part 201.



Technical data

Coil data	Rated voltage	6 – 48 VDC
	Rated power	1.5 W
	Operating power to set	0.9 W
	Pulse to set	20 ms
	Action time	< 10 ms
Contact data	Max. contact arrangement	1 a
	Contact material	AgSnO ₂
	Max. switching power	5,000 VA
	Max. switching voltage	440 VAC
	Max. switching current	10 A
	Mechanical life	10 ⁶
Insulation	Creepage and clearance distance coil – contact	8 mm
	Test voltage coil – contact	4,000 V eff.
	Test voltage contact – contact	–
	Test voltage open contact	1,000 V eff.
	Dielectric strength coil – contact	12 kV / 1.2 / 50 μ s
General data	Ambient temperature	-25 ... +70 °C
	Weight	21 g
	Conform to	VDE, UL, CSA, SEV, SEMKO



Electrical endurance

Load	100,000 cycles	30,000 cycles
Incandescent lamp	1,250 W	2,500 W
Fluorescent lamp, not compensated	1,200 W	2,500 W
Fluorescent lamp, parallel compensated	650 W / 70 µF	1,300 W / 140 µF
Fluorescent lamp, duo-combination	2 x 1,200 W	2 x 2,500 W
Halogen lamp (230 VAC)	1,200 W	2,500 W
Low voltage halogen lamp with transformer	500 VA	500 VA
Mercury arc/sodium discharge lamp not compensated	1,000 W	2,000 W
Mercury arc/sodium discharge lamp parallel compensated	1,000 W / 70 µF	2,000 W / 140 µF
Dulux lamp, not compensated	800 W	1,600 W
Dulux lamp, parallel compensated	560 W / 70 µF	1,100 W / 140 µF

Standard windings

Standard winding No.	Nominal coil voltage (VDC)	Operating voltage of the coil (U1 – U2 (VDC))	Coil resistance (Ohm)	Tolerance (± %)
025	6	4.8 – 7.8	2 x 45	10
100	12	9.6 – 15.6	2 x 100	10
400	24	19.2 – 31.2	2 x 400	10
1K6	48	38.4 – 62.4	2 x 1,600	10

The relay coil with double winding can also be used as a single winding with half operating power if the middle pin of the coil is not used.

Contact position		
Position	(a)	(b)
Terminal-grid	H 1(-)/5(+)	2(-)/5(+)

Identification

Identification code	707 L - R 1A - H 100
Type	707
Version	L = lamp load
Contact material	R = AgSnO
Contact arrangement	1A = 1 normally open
Terminal-grid	H
Winding No.	see coil table

Example for ordering

Further versions on request

Advice for soldering:

The relay is dust-protected. Take care to avoid that flux medium and lead-tin resp. their evaporations enter into the relay, i.e. the printed circuit board must not be flooded.

Technical drawing

