

Technical Data

Relay 704 L

Description

Relay, polarized latching for capacitive load up to 200 μF and lamp load up to 4,800 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 61810 part 1/VDE 0435 part 201.



Technical data

Coil data	Rated voltage	6 – 48 VDC
	Rated power	3.0 W
	Operating power to set	2.0 W
	Pulse to set	20 ms
	Action time	< 15 ms
Contact data	Max. contact arrangement	1 a
	Contact material	AgSnO ₂
	Max. switching power	10,000 VA / 15,000 VA
	Max. switching voltage	440 VAC
	Max. switching current	20 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 μs
General data	Ambient temperature	-40 ... +70 °C
	Weight	36 g
	Conform to	VDE, UL, CSA, SEV, SEMKO

Electrical endurance

Load	30,000 cycles
Incandescent lamp	4,800 W
Fluorescent lamp, not compensated	5,000 W
Fluorescent lamp, parallel compensated	2,500 W / 200 µF
Fluorescent lamp, duo-combination	2 x 5,000 W
Halogen lamp (230 VAC)	5,000 W
Low voltage halogen lamp with transformer	2,000 VA
Mercury arc/sodium discharge lamp not compensated	5,000 W
Mercury arc/sodium discharge lamp parallel compensated	5,000 W / 200 µF
Dulux lamp, not compensated	4,000 W
Dulux lamp, parallel compensated	3,000 W / 200 µF

Standard windings

Standard winding No.	Nominal coil voltage (VDC)	Operating voltage of the coil (VDC)	Coil resistance (Ohm)	Tolerance (± %)
011	6	4.8 – 7.8	2 x 11	10
050	12	9.6 – 15.6	2 x 50	10
180	24	19.2 – 31.2	2 x 180	10
800	48	38.4 – 62.4	2 x 800	15

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(+) B 3(-)/4(+)	2(-)/5(+) 2(-)/4(+)

Identification

Identification code	704	L	-	R	1A	-	H	100
Type	704							
Version		L = lamp load						
Contact material				R = AgSnO ₂				
Contact arrangement					1A = 1 normally open			
Terminal-grid							H / B	
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

