

Technical Data

Relay 706/707/709

Description

Polarized latching relay, with position display and switch for manual operation

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 as well as they meet overload and short circuit requirements of IEC 62053/62654.





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 c (706/707) / 2 c (709)
	Contact material	AgCdO-AgNi
	Max. switching power	4,000 VA (706), 5,000 VA (707), 2,500 VA (709)
	Max. switching voltage	440 VAC
	Max. switching current	16 A (706), 20 A (707), 10 A (709)
Insulation	Mechanical life	10 ⁶
	Creepage and clearance distance coil – contact	8 mm
	Test voltage coil – contact	4,000 V eff.
	Test voltage contact – contact	2,000 V eff. (709)
	Test voltage open contact	1,000 V eff.
General data	Dielectric strength coil – contact	12 kV / 1.2 / 50 µs
	Ambient temperature	-25 ... +70 °C
	Weight	21 g
	Conform to	VDE, UL, CSA, SEV, SEMKO

Standard windings

Standard winding No.	Nominal coil voltage (VDC)	Operating voltage of the coil (VDC)	Coil resistance (Ohm)	Tolerance (± %)
025	6	4.8 – 7.8	2 x 25	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 M - I 1U - H 400
Type	706, 707, 709
Options	M = position display and manual operation
Contact material	I = AgCdO-AgNi
Contact arrangement	1U = 1 change over (2 U) 1A = 1 normally open (2 A) 1R = 1 normally closed (2 R)
Terminal-grid	H
Winding No.	see coil table

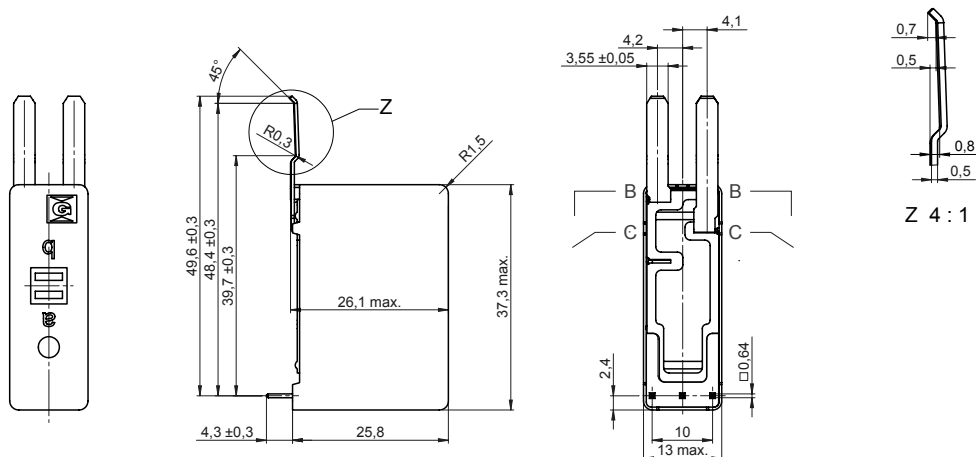
Example for ordering

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.

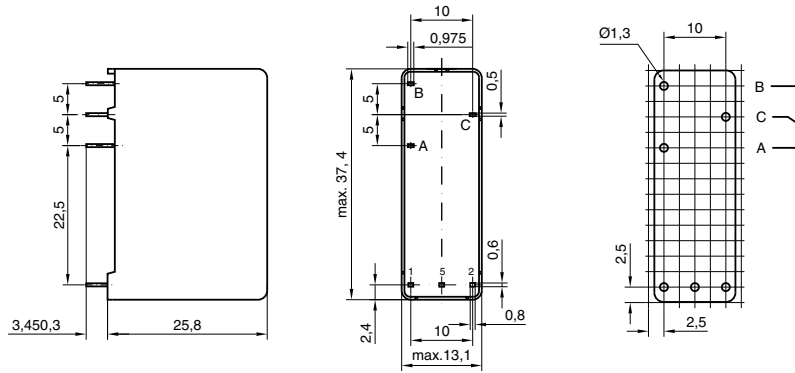
Technical drawing



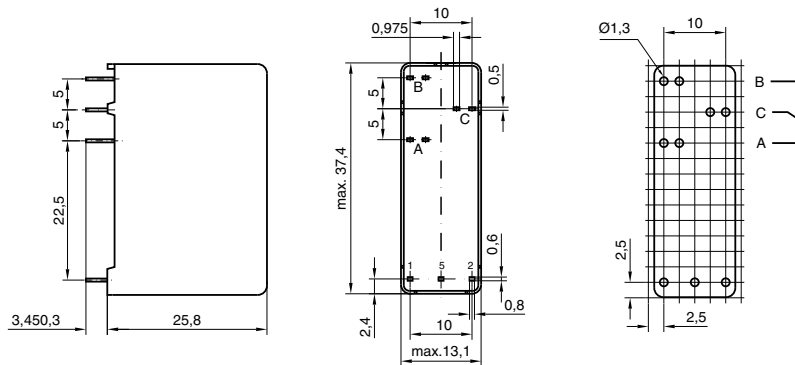
706 K

Technical drawing

706 M



707 M



709 M

