

**6 A / 250 V AC**

• Miniature dimensions • Cadmium - free contacts • AC and DC coils • For plug-in sockets, 35 mm DIN rail mount, EN 50022 or on panel mounting • For PCB and for soldering connections - option • General purpose relays • WT (mechanical indicator + lockable front test button) - standard features of relays for plug-in sockets. Relays may be provided with the test buttons type P (no latching) and plugs - page 199 • **Have obtained LR Type Approval Certificate (Lloyd's Register) - R4...WT**

• Recognitions, certifications, directives: RoHS,       

Contact data

Number and type of contacts		4 C/O
Contact material		AgNi , AgNi/Au 0,2 µm, AgNi/Au 5 µm
Max. switching voltage	AC/DC	250 V / 250 V
Min. switching voltage		5 V
Rated load	AC1	6 A / 250 V AC
	DC1	6 A / 24 V DC
Min. switching current		5 mA AgNi, 5 mA AgNi/Au 0,2 µm, 2 mA AgNi/Au 5 µm
Max. inrush current		12 A
Rated current		6 A
Max. breaking capacity	AC1	1 500 VA
Min. breaking capacity		0,3 W AgNi, 0,3 W AgNi/Au 0,2 µm, 0,1 W AgNi/Au 5 µm
Contact resistance		≤ 100 mΩ
Max. operating frequency		
• at rated load	AC1	1 200 cycles/hour
• no load		18 000 cycles/hour

Coil data

Rated voltage	50/60 Hz AC	6...240 V
	DC	5...220 V
Must release voltage		AC: ≥ 0,2 U _n DC: ≥ 0,1 U _n
Operating range of supply voltage		see Tables 1, 2
Rated power consumption	AC	1,6 VA
	DC	0,9 W

Insulation

Insulation category		B250
Insulation rated voltage		250 V AC
Rated surge voltage		2 500 V AC
Overvoltage category		II PN-EN 60664-1
Insulation pollution degree		2
Dielectric strength		
• between coil and contacts		2 500 V AC
• contact clearance		1 500 V AC
• pole - pole		2 000 V AC
Contact - coil distance		
• clearance		≥ 1,6 mm
• creepage		≥ 3,2 mm

General data

Operating time (typical value)	AC: 10 ms	DC: 13 ms
Release time (typical value)	AC: 8 ms	DC: 3 ms
Electrical life		
• resistive AC1		≥ 10 ⁵ 6 A, 250 V AC
• cos φ		see Fig. 2
Mechanical life (cycles)		≥ 2 x 10 ⁷
Dimensions (L x W x H)		27,5 x 21,2 x 35,6 mm ① 27,5 x 21,1 x 33,5 mm ②
		27,5 x 21,2 x 33 mm ③
Weight		35 g
Ambient temperature		
• storage		-40...+85 °C
• operating		AC: -40...+55 °C DC: -40...+70 °C
Cover protection category		IP 40
Environmental protection		RTI PN-EN 116000-3
Shock resistance	(NO/NC)	10 g / 5 g
Vibration resistance		5 g 10...150 Hz
Solder bath temperature		max. 270 °C
Soldering time		max. 5 s

The data in bold type pertain to the standard versions of the relays.

① For plug-in sockets version: standard (WT) ② For PCB version ③ For version with threaded bolt