

41 Series - Low-profile P.C.B. relays 8 - 12 - 16 A

- Low-profile, only 15.7 mm high
- DC coil 400 mW
- 8 mm, 6 kV (1.2/50 µs) between coil and contacts

15.7

Contact specifications Contact configuration

Rated load in AC1

Minimum switching load

Standard contact material

Coil specifications Nominal voltage (U_N)

Rated power AC/DC

Must drop-out voltage

Mechanical life AC/DC

Operate/release time

Environmental protection

Approvals (according to type):

Operating range

Holding voltage

Technical data

- Ambient temperature + 85 °C
- Sockets and accessories: see 95 and 99 series



RT II

VDE

GOST

RT II

RT II



ORDERING INFORMATION



TECHNICAL DATA

INSULATION	
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Insulation according to EN 61810-1 ed. 2	insulation rated voltage V	250			
	rated impulse withstand voltage kV	4			
	pollution degree	3			
	overvoltage category	Ш			
Dielectric strength between adjacent contacts VAC	2,000				
CONDUCTED DISTURBANCE IMMUNITY					
Burst (550)ns, 5 kHz, on A1 - A2	EN 61000-4-4	level 4 (4 kV)			
Surge (1.2/50 µs) on A1 - A2 (differential mode)	EN 61000-4-5	level 3 (2 kV)			
other data					

Bounce time: NO/NC			2/5		
Vibration resistance (1055)Hz, max. ± 1 mm: NO/NC g/			20/5		
Power lost to the environment	without contact current	W	0.4		
	with rated current	W	1.7 (41.31)	1.2 (41.52)	1.8 (41.61)
Recommended distance between relays mounted on P.C.B.s mm		mm	≥ 5		



CONTACT SPECIFICATIONS



Contact life vs AC1 load.

- 1 Type 41.52 (8 A) at 360 cycles/h
- 2 Type 41.31 (12 A) at 360 cycles/h Type 41.61 (16 A) at 360 cycles/h

H 41



Breaking capacity for DC1 load.

- **1** Type 41.61
- **2** Type 41.31
- **3** Type 41.52

A - Load applied to 1 contactB - Load applied to 2 contacts in series

• When switching a resistive load (DC1) having voltage and current values under the curve the expected electrical life is $\ge 100 \cdot 10^3$ cycles.

• In case of DC13 loads the connection of a diode in parallel with the load will permit the same electrical life as for a DC1 load. **Note:** the release time of load will be increase.

COIL SPECIFICATIONS

DC VERSION DATA

Nominal	Coil	Operating range		Resistance	Rated coil
voltage	code				consumption
U _N		U _{min}	U _{max}	R	I at U _N
V		V	V	Ω	mA
12	9 .012	8.4	18	360	33.3
24	9 .024	16.8	36	1,440	19.7
48	9 .048	33.6	72	5,760	8.3
60	9 .060	42	90	9,000	6.6
110	9 .110	77	165	24,200	4.5

R 41 DC



Operating range vs ambient temperature.

1 - Max coil voltage permitted.

2 - Min pick-up voltage with coil at ambient temperature.

finder

95 Series - Sockets and accessories for 41 series relays



PACKAGING CODES

