



- Miniature PCB power relay
- Up to 16A /28VDC or 230VAC
- Industry standard style
- Cost effective



RoHS Compliant ✓

Contacts

Contact arrangement	SPST-NO (1 N/O), SPDT (1 C/O)	
Contact material	AgNi 90/10, AgSnO ₂	
Max. switching voltage	AC/DC	440VAC / 125VDC
Max. switching power	4000VA	
Min. switching current / voltage	100mA/12VDC	
Rated load	AC1	16A, 250VAC
	DC1	16A, 30VDC
Initial resistance	100mΩ, max. at 0.1A/6VDC	

Coil

Rated voltage	DC	5...110V
Must release voltage	DC	≥ 0.1U _n
Operating range of supply voltage	See table 1	
Rated power consumption	DC	400mW

Insulation (EN 60664-1)

Insulation resistance	AC	≤ 1000MΩ at 500VDC, 50%RH
Dielectric strength	coil to contact	5000Vrms, 1min
	contact to contact	1000Vrms, 1min

General Data

Operating time	typ.	≤ 15ms
Release time	typ.	≤ 8ms
Electrical life	ops.	≥ 1 x 10 ⁵
Mechanical life	ops.	≥ 1 x 10 ⁷

Environmental

Ambient temperature	operating	-40 to 85°C
	storage	-40 to 85°C
Shock resistance	functional	100m/s ²
	destructive	1000m/s ²
Vibration resistance	DA 1.5mm 10-55Hz	
Dimensions	L x W x H	29 x 12.7 x 15.7mm
Weight	approx.	13.5g

Ordering Code

D X 8 5 - 3 0 1 1 - 3 5 - 1 0 0 9

Series

Coil code:

See table 1

Contact material

20: AgNi 90/10

30: AgSnO₂

Contact arrangement

11: SPDT (1C/O)

21: SPST-NO (1N/O)

Environmental protection

2: In cover, flux tight - IP40

3: In cover, sealed - IP67

Mounting & terminations

5: For PCB

Notes:

For AC loads this relay is designed for 50-60Hz standard industrial power and was tested according to AC1 category as defined by the IEC 60947-1 standard, covering low-frequency switchgear (typically 50-60 Hz). Operating at higher frequencies, places the component outside its certified utilisation category, invalidating all safety certifications (CE, UL, etc.) and manufacturer performance guarantees.

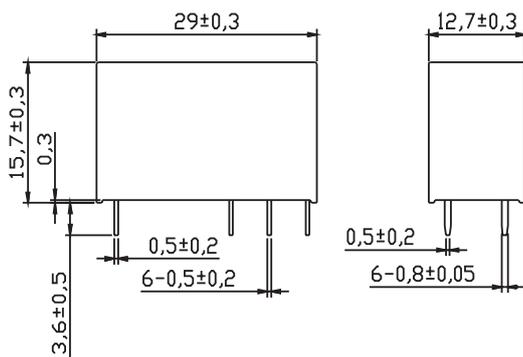
Coil Data (DC voltage 400mW)

Table 1

Coil code	Nominal voltage (VDC)	Coil resistance (Ω) ±10%	Must operate voltage max. (VDC)	Must release voltage min. (VDC)
1005	5	62	3.5	0.5
1006	6	90	4.2	0.6
1009	9	202	6.3	0.9
1012	12	360	8.4	1.2
1018	18	810	12.6	1.8
1024	24	1440	16.8	2.4
1048	48	5760 ±15%	33.6	4.8
1060	60	7500 ±15%	42.0	6.0
1110	110	25200 ±15%	77.0	11.0

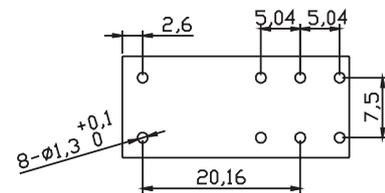
Dimensions mm

Fig. 1



PCB Mounting Dimensions mm (bottom view)

Fig. 2



Wiring Diagrams (bottom view)

Fig. 3

