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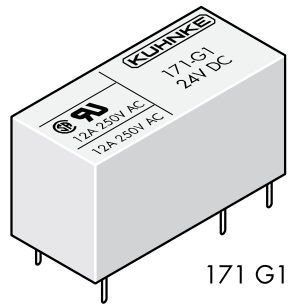
Important Note

The information shown in these documents is for guidance only. No liability is accepted for any errors or omissions. The designer or user is solely responsible for the safe and proper application of the parts, assemblies or equipment described.

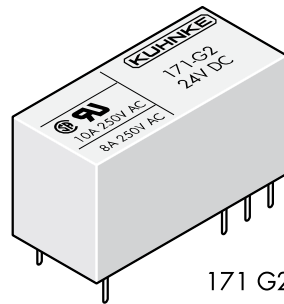


PCB Relay 171

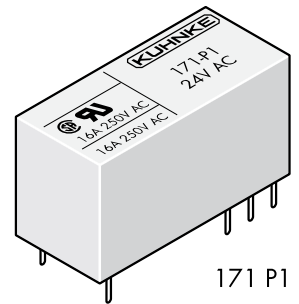
- Standard type  
- Immunity to flux
- 1 C/O 12/16 A, 2 C/O 8 A
- Insulation group C250



171 G1



171 G2



171 P1

Order Code

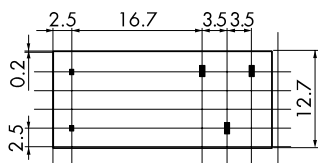
Order code	171	G	1	-	24 V	DC
Type of relay	171					
Model						
G For printed circuit		G				
P For printed circuit (16 A)		P				
Contact arrangement						
1 C/O (Model G/P)			1			
2 C/O (Model G)			2			
Nominal operation coil voltage (see coil data)						
24 V					24 V	
Coil current type						
DC Direct current						DC
AC Alternating current						AC

Contact Data

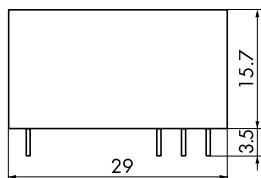
	171G1	171G2	171P1
Contact arrangement	1 C/O	2 C/O	1 C/O
Type of contact	Single contact	Single contact	Single contact
Contact material	AgNi	AgNi	AgNi
Nominal contact current	12 A	8 A	16 A
Inrush current	≤ 15 A	≤ 10 A	≤ 20 A
Nominal contact voltage	150 VDC / 250 VAC	150 VDC / 250 VAC	150 VDC / 400 VAC
Max. switching capacity (resistive)	192 W / 2000 VA	100 W / 1000 VA	240 W / 3000 VA
Min. switching capacity	10 mA / 5 VDC	10 mA / 5 VDC	10 mA / 5 VDC



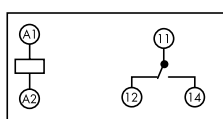
Dimensions, Connection Diagram(s)



Viewed on relay from below

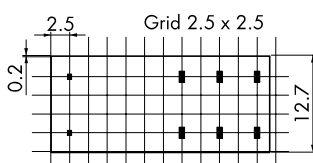


Hole diameter 1.3 mm

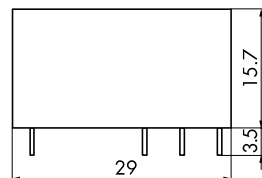


Top view

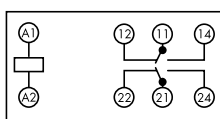
171 G1



Viewed on relay from below

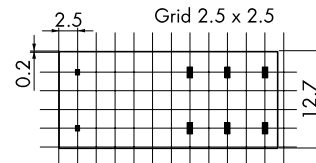


Hole diameter 1.3 mm

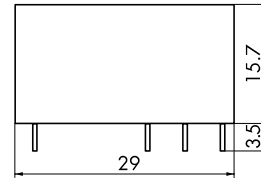


Top view

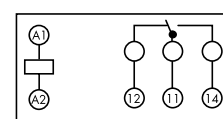
171 G2



Viewed on relay from below



Hole diameter 1.3 mm



Top view

171 P1

General Data

	171G1	171G2	171P1
Pull-in-time	approx. 10 ms	approx. 10 ms	approx. 10 ms
Drop-out time	approx. 8 ms	approx. 8 ms	approx. 8 ms
Bounce time	approx. 2 ms	approx. 2 ms	approx. 2 ms
Mechanical service life	> 20 x 10 ⁶ switching cycles	> 20 x 10 ⁶ switching cycles	> 20 x 10 ⁶ switching cycles
	> 5 x 10 ⁶ switching cycles AC	> 5 x 10 ⁶ switching cycles AC	> 5 x 10 ⁶ switching cycles AC
Test voltage			
Coil - contact (striking distance ≥ 8 mm)	5000 VAC	5000 VAC	5000 VAC
(C/O) - (C/O)		2500 VAC	
Contact - contact	1000 VAC	1000 VAC	1000 VAC
Insulation group VDE 0110b/2.79	C250	C250	C250, B380
Ambient temperature	-40 °C to +75 °C		
Vibration resistance (30 - 100 Hz)	> 4 g		
Weight	approx. 14 g		
Operating range	Class 1 (0.8 - 1.1 U _N)		
Pull-in			
after coil excitation with U _N at T _U	20 °C		
Drop-out			
	> 0.05 U _N DC		
	> 0.15 U _N AC		

Coil Data

Coil voltage DC	171G1/G2/P1 Pull-in power approx. 0.2 W Nom. operation coil power approx. 0.4 W		Coil voltage AC		171G1/G2/P1 Nom. operation coil power appr. 50 Hz 0.7 VA Nom. operation coil power appr. 60 Hz 0.6 VA	
	Nominal voltage (V)	Nominal resistance (Ω)	Nominal current (mA)	Nominal voltage (V)	Nominal resist. (Ω)	Nominal current 50 Hz (mA)
12	360	33	24	350	32	24
24	1440	17	115	8100	6.6	5.1
			230	32500	3.3	2.5

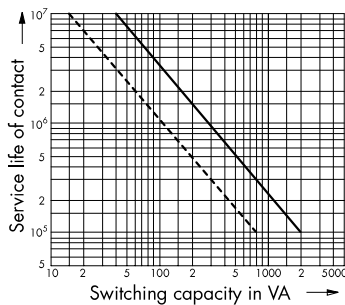


Electrical Service Life

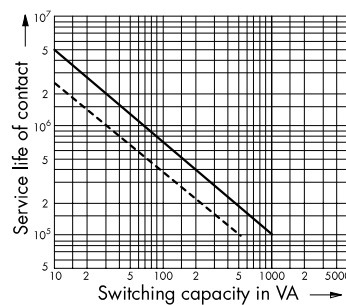
Electrical Service Life AC

90 % operating

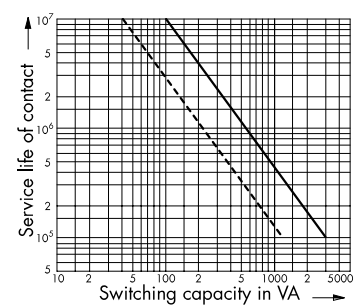
- resistive load
 - - - inductive load
- $\cos \varphi = 0.4 \dots 0.7$



171 G1



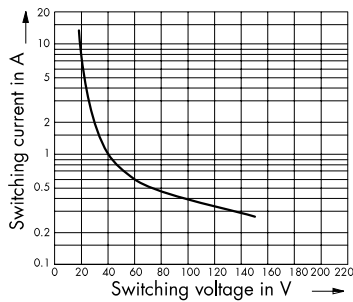
171 G2



171 P1

Switching Capability DC

Below limiting characteristic: service life of contacts
 1×10^6 switching cycles (90 % operating)
 resistive load



Order Details for Accessories 171

Relay		171 G1	171 G2/P1
Socket for	Screw connection with quick-action fastening	Z318.02 Safe separation	Z319.02
	printed circuit	Z316.01	Z317.01
Modules for socket	Z318.02, Z319.02	Z318.51 Protection/luminous diode 24 VDC	
		Z318.52 Luminous diode 24 VAC/DC	
		Z318.53 Protection diode DC	
		Z318.54 24 VAC with varistor	
		Z318.55 230 VAC with varistor	
	Z318.58 110/230 VAC LED		
Retaining clip	for 171	Z438 for socket Z318.02	Z438 for socket Z319.02