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Hard copy product catalogues, and CDROMs have been published describing Kuhnke Pneumatics, Solenoids, Relays and Electronics; some divided into different books. A list of current publications is available on this web site or from our sales offices. Some may be available for download, but as substantially larger files.

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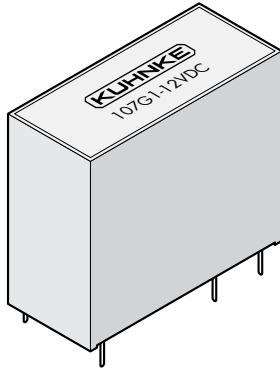
Important Note

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.

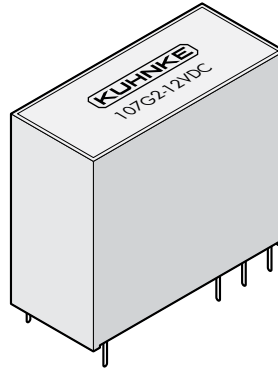


PCB Relay 107

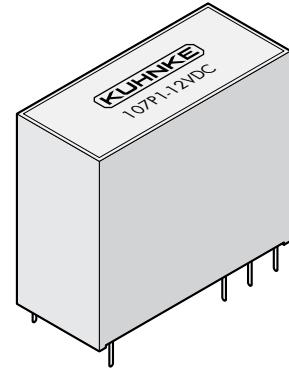
- Standard type /
- Immunity to flux
- 1 C/O 10/16 A, 2 C/O 7 A
- Insulation group C250



107 G1



107 G2



107 P1

Order Code

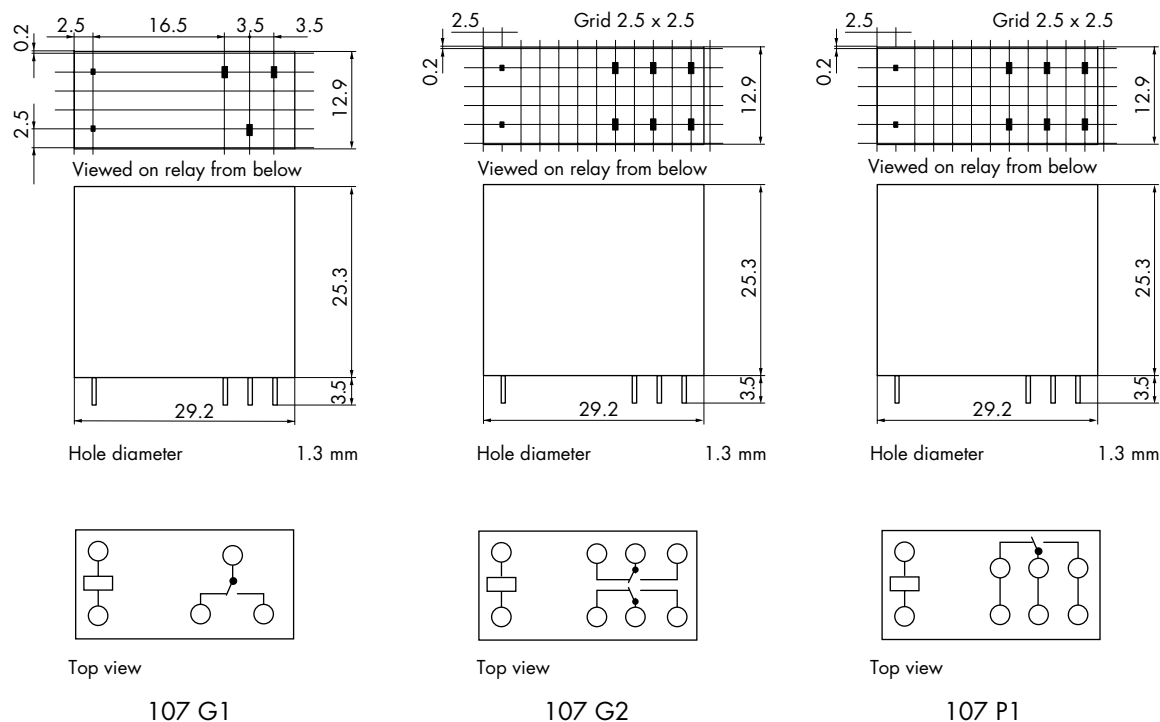
Order code	107	G	1	-	24 V	DC	E
Type of relay	107						
Model							
G For printed circuit		G					
P For printed circuit (16 A)		P					
Contact arrangement							
1 C/O (Model G/P)			1				
2 C/O (Model G)			2				
Nominal operation coil voltage (see coil data)							
24 V					24 V		
Coil current type							
DC Direct current						DC	
E High resistance coil							E
Extension							
W Washable (on request)							W

Contact Data

	107G1	107G2	107P1
Contact arrangement	1 C/O	2 C/O	1 C/O
Type of contact	Single contact	Single contact	Single contact
Contact material	AgCdO	AgCdO	AgCdO
Nominal contact current	10 A	7 A	16 A
Inrush current	≤ 10 A	≤ 5 A	≤ 16 A
Nominal contact voltage	150 VDC / 250 VAC	150 VDC / 250 VAC	150 VDC / 400 VAC
Max. switching capacity (resistive)	240 W / 2400 VA	120 W / 1200 VA	480 W / 4000 VA
Min. switching capacity	100 mA / 5 VDC	100 mA / 5 VDC	100 mA / 5 VDC



Dimensions, Connection Diagram(s)



General Data

	107 G1	107 G2	107 P1
Pull-in-time	approx. 10 ms	approx. 10 ms	approx. 20 ms
Drop-out time	approx. 5 ms	approx. 5 ms	approx. 10 ms
Bounce time	approx. 6 ms	approx. 8 ms	approx. 6 ms
Mechanical service life	> 20 x 10 ⁶ switching cycles		
Test voltage			
Coil - contact (striking distance ≥ 8 mm)	4000 VAC	4000 VAC	4000 VAC
(C/O) - (C/O)		2500 VAC	
Contact - contact	1000 VAC	1000 VAC	1000 VAC
Insulation group VDE 0110b/2.79	C250		
Ambient temperature	-5 °C to +70 °C		
Vibration resistance (30 - 100 Hz)	> 4 g		
Weight	approx. 18 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		

Coil Data

Coil voltage	High resistance 107 ... E Pull-in power approx. 0.26 W Nominal operation coil power approx. 0.52 W	
	Nominal voltage (V)	Nominal resistance (Ω)
6	68	88
12	270	44
24	1100	22
48	4400	11

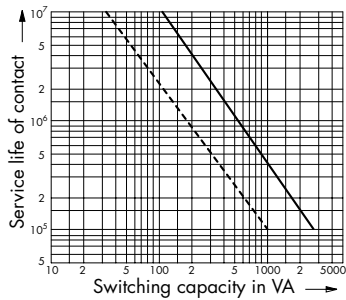


Electrical Service Life

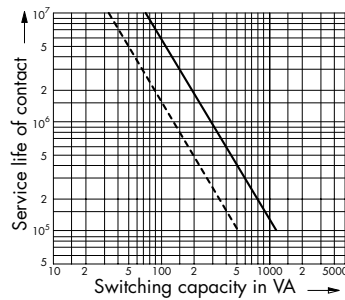
Electrical Service Life AC

90 % operating

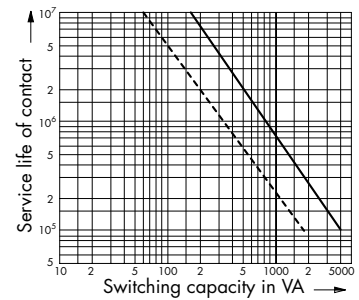
- resistive load
- - - inductive load
- $\cos \varphi = 0.4 \dots 0.7$



107 G1



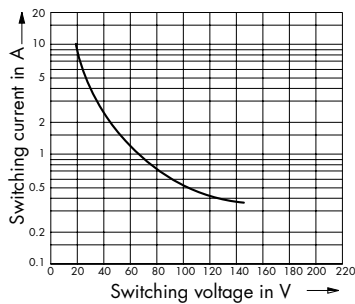
107 G2



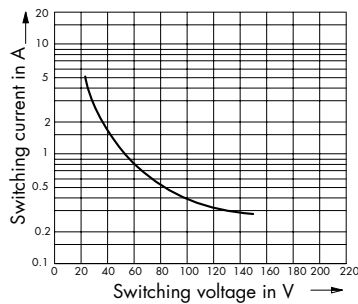
107 P1

Switching Capability DC

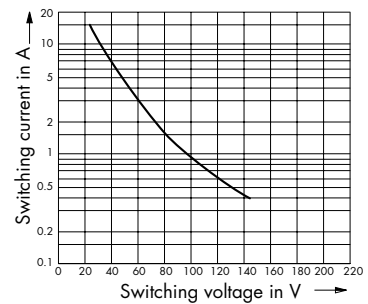
Below limiting characteristic: service life of contacts
 1×10^6 switching cycles (90 % operating)
 resistive load



107 G1



107 G2

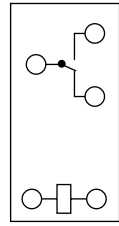
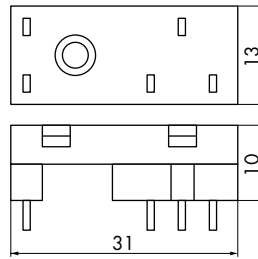
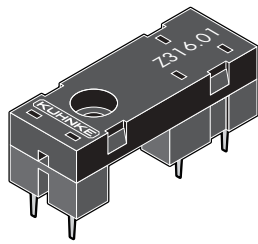


107 P1

Order Details for Accessories 107

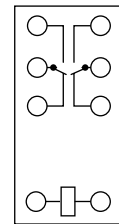
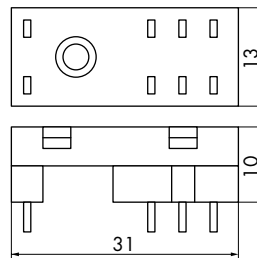
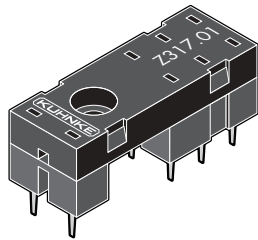
Relay		107 G1	107 G2/P1
Socket for	Screw connection with quick-action fastening	Z318.02 Safe separation	Z319.02
	printed circuit	Z316.01	Z317.01
Modules for socket	Z318.02, Z319.02	Z318.51 Protection/luminous diode 24 VDC	Modules as for 107 G1
		Z318.52 Luminous diode 24 VAC/DC	
		Z318.53 Protection diode DC	
		Z318.54 24 VAC with varistor	
		Z318.55 230 VAC with varistor	
		Z318.58 110/230 VAC LED	
Retaining clip		Z421 for socket Z316.01	Z421 for socket Z317.01
Retaining clip	for 107	Z439 for socket Z318.02	Z439 for socket Z319.02

Socket Z316.01



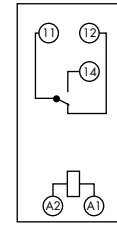
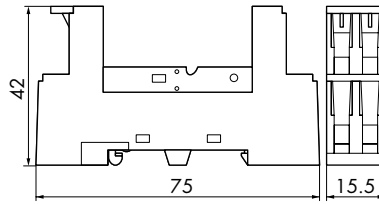
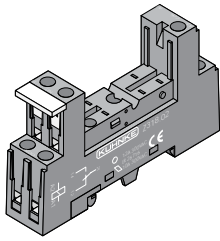
Socket	Z316.01
Socket design	Safe separation
Terminal capacity	Soldered pins
Mounting	PCB mount
Nominal current	12 A
Insulation group VDE 0110b/2.79	C250
Weight	approx. 3.5 g
Retaining clip	Z420 (171 only)

Socket Z317.01



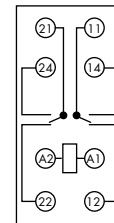
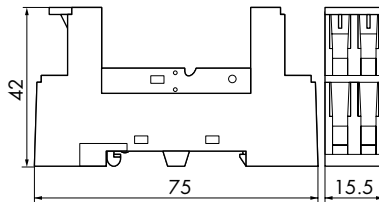
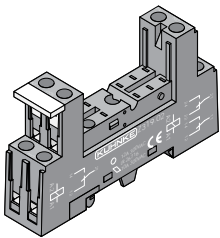
Socket	Z317.01
Socket design	Safe separation
Terminal capacity	Soldered pins
Mounting	PCB mount
Nominal current	12 A
Insulation group VDE 0110b/2.79	C250
Weight	approx. 3.5 g
Retaining clip	Z420 (171 only), Z421 (107 G2/P1 only)

Socket Z318.02



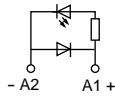
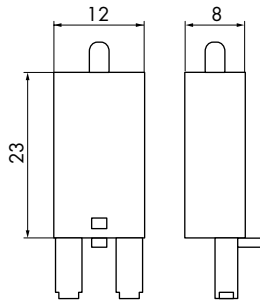
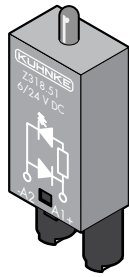
Socket	Z318.02
Socket design	Safe separation, logical, additional modules supported
Terminal capacity	
solid conductor	2 x 2.5 mm ²
flexible conductor with ferrule	2 x 1.5 mm ²
Terminal designation	in accordance with EN50005
Mounting	Rail EN50022-35 x 7.5/15 Screw mounting M3
Screw terminals	Head screws metric M3
Torque in accordance with DIN EN 60999	0.5 Nm
Nominal current	12 A
Insulation group VDE 0110b/2.79	C250, B380
Electrical shock protection	in accordance with VBG4 (professional association), VDE 0106 part 100
Weight	22 g
Eject/retain clip	Z438 for 171 G1

Socket Z319.02



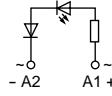
Socket	Z319.02
Socket design	logical, additional modules supported
Terminal capacity	
solid conductor	2 x 2.5 mm ²
flexible conductor with ferrule	2 x 1.5 mm ²
Terminal designation	in accordance with EN50005
Mounting	Rail EN50022-35 x 7.5/15 Screw mounting M3
Screw terminals	Head screws metric M3
Torque in accordance with DIN EN 60999	0.5 Nm
Nominal current	12 A
Insulation group VDE 0110b/2.79	C250, B380
Electrical shock protection	in accordance with VBG4 (professional association), VDE 0106 part 100
Weight	22 g
Eject/retain clip	Z438 for 171, Z439 for 107 G/P1

Modules for Socket Z318.02 and Z319.02



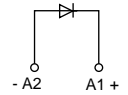
Z318.51

Protection / luminous diode for 6 - 24 VDC



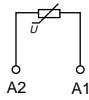
Z318.52

LED for 6 - 24 VAC / DC



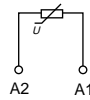
Z318.53

Protection diode



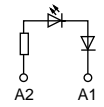
Z318.54

Varistor for 24 VAC



Z318.55

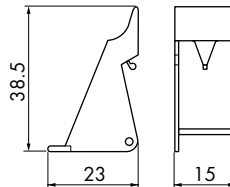
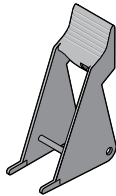
Varistor for 230 VAC



Z318.58

LED for 110 / 230 VAC

Eject/retain Clip Z438 (for Z318.02 and Z319.02 with relay 171)



Eject/retain Clip Z439 (for Z319.02 with relay 107 G2 and 107 P1)

