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### Important Note

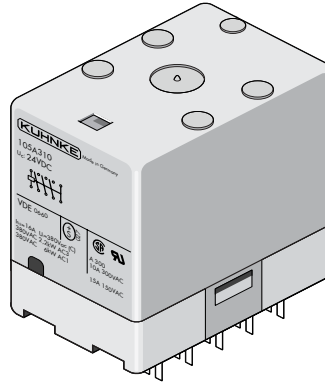
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## Relay-Contactor 105

- Standard type , , 
- Mechanically guided contacts for security controls in accordance with DIN VDE 0113 part 1
- High switching capability through bridge contacts
- High contact making reliability through twin contacts
- Version for printed circuit



## Order Code

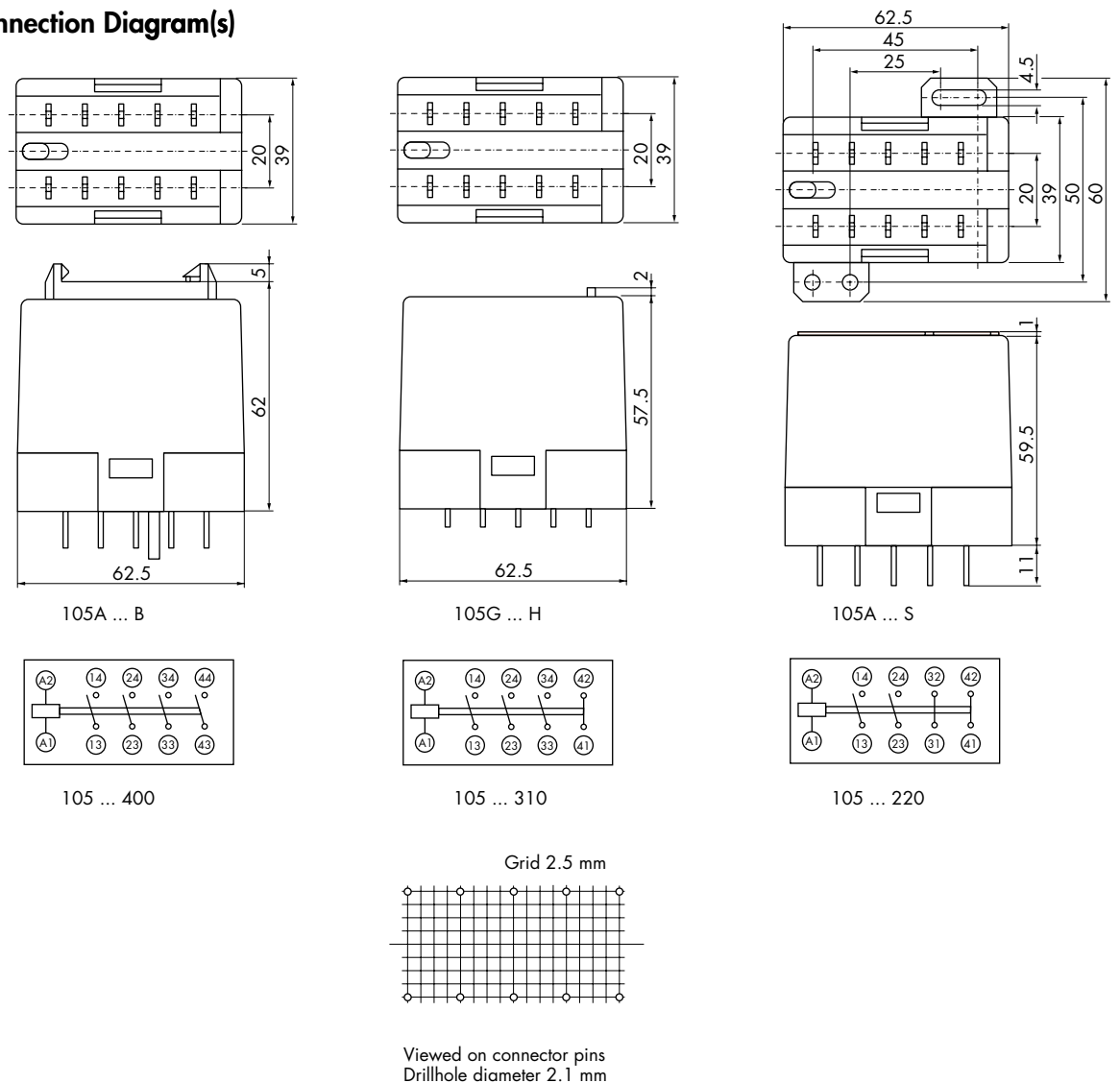
<b>Order code</b>	<b>105</b>	<b>A</b>	<b>400</b>		<b>-</b>	<b>24 V</b>	<b>DC</b>	
Type of relay	105							
Model								
A Plug-in type for socket 6.3 mm or 2 x B 2.8 resp. in accordance with DIN 46247		A						
G For printed circuit		G						
Contact arrangement								
400 4 N/O			400					
310 3 N/O, 1 N/C			310					
220 2 N/O, 2 N/C			220					
Contact material, type of contact								
- Hard silver (no code letter)				-				
C AgCdO (model A only)				C				
F Twin contacts hard silver				F				
Nominal operation coil voltage (see coil data)								
24 V					24 V			
Coil current type								
DC Direct current							DC	
AC Alternating current 50 / 60 Hz with bridge rectifier							AC	
Extensions								
- None (no code letter)								-
B Quick-action fastening for rail EN50022-35 x 7.5								B
H Manual override (combination B and H not possible)								H
S Screw mounting								S



## Contact Data

	<b>105</b>	
Contact arrangement	4 N/O 3 N/O and 1 N/C 2 N/O and 2 N/C	
Contact arrangement	Single contact	Control contact
Type of contact	Bridge contact	Bridge contact as twin contact
Contact material	Hard silver AgCdO	Hard silver
Nominal contact current	16 A	10 A
Inrush current	≤ 60 A	≤ 20 A
Nominal contact voltage	400 VAC / DC	
Max. switching capacity (resistive)	6000 VA	3000 VA
Min. switching capacity	200 mA / 60 VDC	50 mA / 20 VDC
Switching capacity	AC1 AC3  DC1 AC4	3 kW / 400 V 0.75 kW / 400 V  100 W (for security circuit in accordance with professional association) not suitable

## Dimensions, Connection Diagram(s)





## General Data

105			
Pull-in-time	approx. 25 ms		
Drop-out time	approx. 8 ms DC, approx. 35 ms AC		
Bounce time	approx. 5 ms		
Mechanical service life	> 10 x 10 <sup>6</sup> switching cycles		
Test voltage			
Coil - contact	2500 VAC		
Contact - contact	2500 VAC		
Insulation group VDE 0110b/2.79	C380		
Short-circuit protection VDE 0660 part 200	1000 A		
Ambient temperature	-25 °C to +60 °C		
Vibration resistance (30 - 100 Hz)	> 4 g		
Weight	approx. 260 g		
Operating range	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">DC Class 2 (0.85 - 1.1 U<sub>N</sub>)</td> <td style="text-align: center;">AC, 50 / 60 Hz Class 2 (0.85 - 1.1 U<sub>N</sub>)</td> </tr> </table>	DC Class 2 (0.85 - 1.1 U <sub>N</sub> )	AC, 50 / 60 Hz Class 2 (0.85 - 1.1 U <sub>N</sub> )
DC Class 2 (0.85 - 1.1 U <sub>N</sub> )	AC, 50 / 60 Hz Class 2 (0.85 - 1.1 U <sub>N</sub> )		
Pull-in after coil excitation with U <sub>N</sub> at T <sub>U</sub>	35 °C		
Drop-out	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">&gt; 0.05 U<sub>N</sub></td> <td style="text-align: center;">&gt; 0.15 U<sub>N</sub></td> </tr> </table>	> 0.05 U <sub>N</sub>	> 0.15 U <sub>N</sub>
> 0.05 U <sub>N</sub>	> 0.15 U <sub>N</sub>		

## Coil Data

Coil voltage DC*	105 Pull-in power approx. 1.3 W Nom. operation coil power approx. 3.6 W		Coil voltage AC*	105 Pull-in power approx. 1.5 VA Nom. operation coil power approx 4.2 VA.	
	Nominal voltage (V)	Nom. resistance (Ω)		Nominal current (mA)	Nominal voltage (V)
12	41	290	12	32	340
24	151	160	24	120	180
40	473	85	42	390	97
60	968	62	60	780	69
110	3370	33	110	2710	37
220	13700	16	230	13400	15

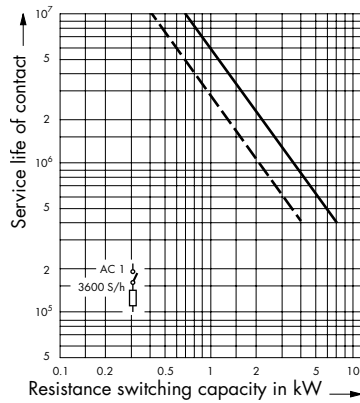
\* Other voltages on request



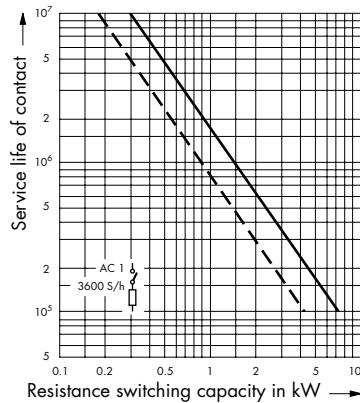
## Electrical Service Life

### Electrical Service Life AC 1

90 % operating  
 ——— 400 V  
 - - - - 230 V



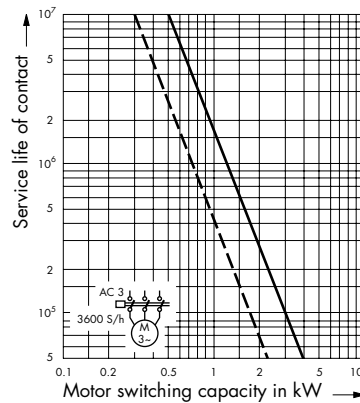
Single contacts



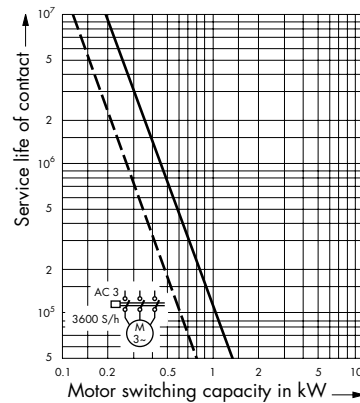
Control contacts

### Electrical Service Life AC 3

90 % operating  
 ——— 400 V  
 - - - - 230 V



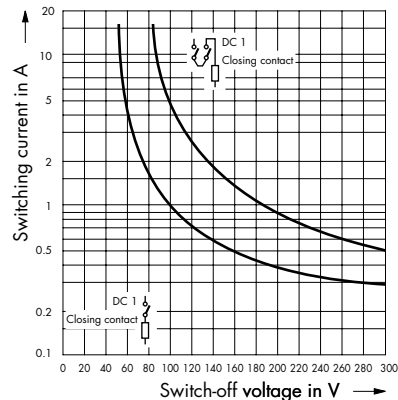
Single contacts



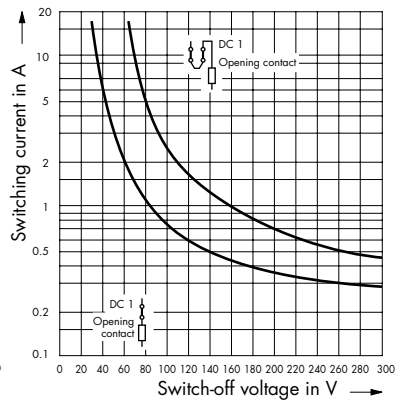
Control contacts

### Switching Capability DC 1

90 % operating



Single contact closing contact



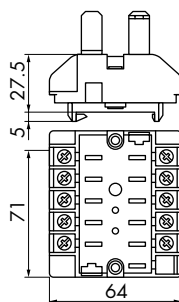
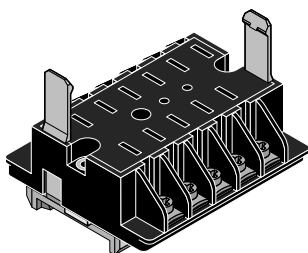
Single contact opening contact



## Order Specifications for Accessories

Relay	105
Socket for screw connection with quick-action fastening	Z320.02

## Socket Z320.02



Socket	Z320.02
Terminal capacity solid conductor flexible conductor with ferrule	2 x 2.5 mm <sup>2</sup> 2 x 1.5 mm <sup>2</sup>
Terminal designation	in accordance with EN50005
Mounting	Rail EN50022-35 x 7.5/15
Screw terminals	Head screws metric M4
Torque in accordance with DIN EN 60999	1.2 Nm
Nominal current	16 A
Insulation group VDE 0110b/2.79	C380
Weight	110 g
Retaining clip	enclosed retaining clips