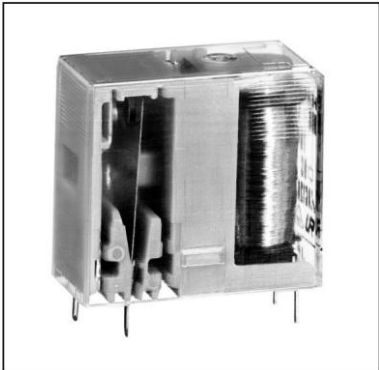


Power relay H-550



Technical data  
mechanically

Generally

- 1 changeover contact, 1 break contact, 1 make contact
- Power contact for 12 and 16 A
- Leading tungsten contact for 10 A
- Standing version
- Ambient temperature –25 ... +70 °C
- High temperature version –40 ... +125 °C
- Soldering heat resistance 260 °C/5s
- RoHS compliant

connections

- Solder pins for circuit board
- 6.3 mm flat plug for switching contact

drive

- Direct current, monostable
- Direct current, bistable
- Alternating current, monostable (max. 12 A)

Permit

- cULus

Norms

- IEC 61810-1 • UL 508

Dimensions L x W x H (in mm)

Dustproof: 28.6 x 13.3 x 25.9

washproof: 28.6 x 13.3 x 26.9

Shock resistance  
Vibration resistance

25g, 11ms half sine  
10g, 10-55Hz

response time  
Relapse time

typically 13 ms  
typically 4 ms

Mechanical lifespan (without load)  
Weight

>107 switching cycles  
25g

Technical data  
electric

Max. switching capacity  
Max. switching current

Version H\_O-03550/61  
AC 4,000 VA, DC \*W  
16 A

Max. switching capacity  
Max. switching current

Version H\_O-03550/64  
AC 2,500 VA, DC \*W  
12 A

Max. switching voltage  
Electrical lifespan (with rated load)  
see DC breaking capacity

AC 230/240V, DC \*V  
>30,000 switching cycles

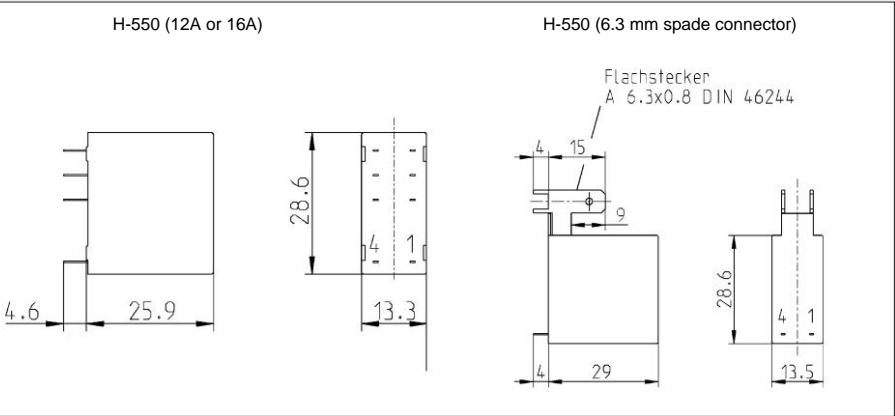
isolation

Overvoltage category (Ü) III  
Pollution degree (V) 2  
Insulating material group II

BI = basic insulation  
VI = Reinforced (double) insulation

Isolation between	Rated voltage supply system		Air-/creepage distance	Test voltage 50Hz/60s
	AC 120/240V	AC 230/400 V		
Contact set – drive	VI	VI	> 8mm	AC 4,000V

Dimensional drawing



Power relay H-550

Type code

Spec.  
Characteristics  
Oh standard

drive  
0 DC, neutral, monostable  
5 DC, neutral, bistable  
1 AC, monostable

Special version  
1 16A version  
4 12A version  
K 6.3 mm connection, coil connections facing up  
D 6.3 mm connection, 1 contact  
L 6.3 mm connection, block relay

execution  
00 default  
01 Special version

H00-03550/61-001108-001/050.00

Housing  
O dustproof (RT II)  
D washproof (RT III)  
T Tu up to +125 °C

Connection type  
3 soldering pins for  
Circuit board  
5 flat connectors  
6.3mm for  
Switch contact

Kitchen sink  
See coil table

Size  
6 standard

closer

opener

Changer

Contact set number  
See contact set table

Contact set table

16A version

Number of contacts <small>Normally open/normally closed/changeover contact</small>	AgCdO	AgCdO +5 µm Au	AgSnO2	AgCdO + W <small>Only for 10 A!</small>	Contact material
001	050	possible	---	---	Contact set number
100	052	possible	126	078	
010	051	possible	possible	---	

Contact set table

12A version

Number of contacts <small>NO/NC/changeover contact</small>	AgCdO	AgCdO +5 µm Au	AgSnO2	Contact material
001	056	132	---	Contact set number
100	058	131	possible	
010	057	possible	possible	

All values at ambient temperature Tu = 20 °C

Coil table  
Number of contacts  
100 or  
010

DC drive

Coil no.	resistance resistance		U1/V	U2/V	Urück/V	Oppression Unenn/V
	R/ÿ	tolerance ±				
001120	40	7%	3.3	8.5	0.3	5
001117	73	9%	4.4	11.3	0.5	6
001169	280	8th%	8.7	22.3	0.9	12
001108	1,100	7%	17.6	44.2	1.8	24
001105	3,450	12%	32.4	77.1	3.2	48
001104	5,500	14%	41.4	96.8	3.9	60
001101	16,700	20%	76.7	165.0	6.7	110

Number of contacts  
001  
  
DC drive

Coil no.	resistance resistance		U1/V	U2/V	Urück/V	Oppression Unenn/V
	R/ÿ	tolerance ±				
001120	40	7%	3.3	8.5	0.4	5
001117	73	9%	4.4	11.3	0.5	6
001169	280	8th%	8.7	22.3	1.1	12
001108	1,100	7%	17.6	44.2	2.2	24
001105	3,450	12%	32.4	77.1	3.8	48
001104	5,500	14%	41.4	96.8	4.8	60
001101	16,700	20%	76.7	165.0	8.1	110

Response voltage including self-heating (minimum coil voltage)  
U1: Thermally induced coil limit voltage (max. coil voltage)  
U2: Urück: Reset voltage  
Further information can be found in the relay lexicon under "Operating variables".  
Other coils are possible and available.

Power relay H-550

Coil table

AC drive

Coil no.	Resistance R/ȳ	Umin/V	Umax/V	Oppression Unenn/V
001826	7	4.8	6.6	6
001820	32	9.6	13.2	12
001814	120	19.2	26.4	24
001811	480	38.4	52.8	48
001809	770	48.0	66.0	60
001805	2,720	88.0	121.0	110/115
001802	10,870	176.0	242.0	220/230

Winding designed for 50 Hz, 100% ED at Tu -25 to +60 °C

Bistable, 2 coils

Coil no.	Resistance R/ȳ	Uan/V	Urück/V	Urückmax/V	Oppression Unenn/V
512214	18	3.7	4.2	7.4	6/6
	53				
511611	73	7.5	8.4	14.9	12/12
	220				
511206	275	14.7	17.0	30.2	24/24
	800				
510703	1,140	30.7	33.8	60.1	48/48
	3,080				

Pulse duration: >30 ms

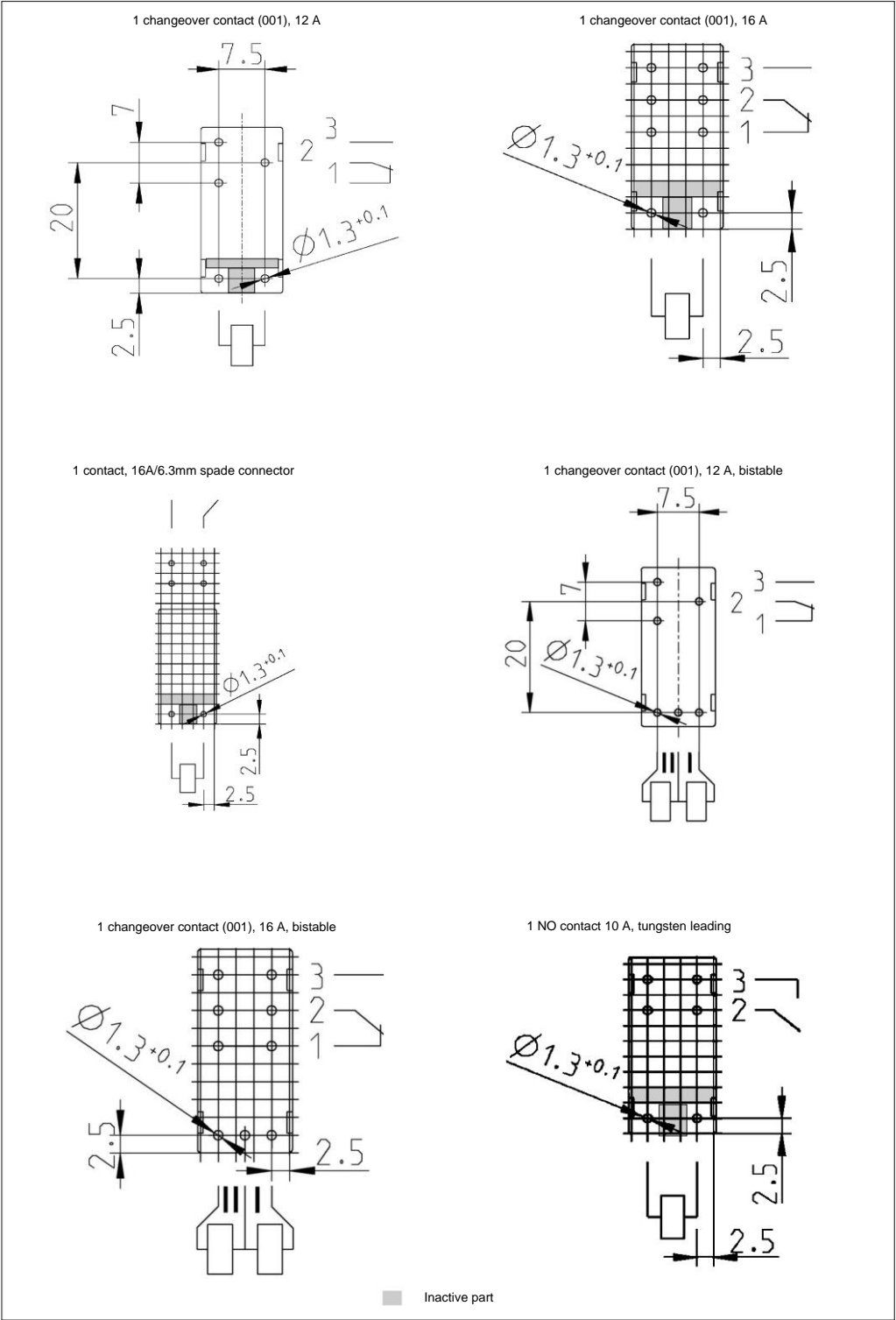
Preferred types

Article no.	Type code	Oppression Unnamed	U1/V	U2/V	Urück/V
550-1002	Will be replaced by 550-1569				
550-1003	HOO-03550/61-001108-100/052.00	DC 24V	17.6	44.2	1.8
550-1005	HOO-03550/61-001108-001/050.00	DC 24V	17.6	44.2	2.2
550-1010	HOO-03550/64-001108-001/056.00	DC 24V	17.6	44.2	2.2
550-1026	HOO-03550/61-001169-100/052.00	DC 12V	8.7	22.3	0.9
550-1030	HOO-035 50/61- 001101-001/050.00	DC 110V	76.7	165.0	8.1
550-1071	HOO-53550/61-511611-001/050.00	DC 12/12V	7.5		8.4
550-1093	HOO-53550/61-511206-001/050.00	DC 24/24V	14.7		17.0
550-1553	HDO-03550/61-001169-100/052.00	DC 12V	8.7	22.3	0.9
550-1569	HOO-03550/61-00116 9-001/050.00	DC 12V	8.7	22.3	1.1
550-1598	HDO -03550/61-001108-001/050.00	DC 24V	17.6	44.2	2.2
550-1663	HOO-03550/64-001169-001/056.00	DC 12V	8.7	22.3	1.1
550-1696	HOO-05550/6L-001169-100/099.00	DC 12V	8.7	22.3	0.9
550-1749	HOO-53550/64-510703-001/056.00	DC 48/48V	30.7		33.8
550-1751	HDO-53550 /64-511611 -001/056.00	DC 12/12V	7.5		8.4
550-1929	HOO-03550/64-001169-001/132.00	DC 24V	8.7	22.3	1.1
550-6057	HOO-13550/61-001802-001/073.00	AC 230V	176.0	242.0	

# Power relay H-550

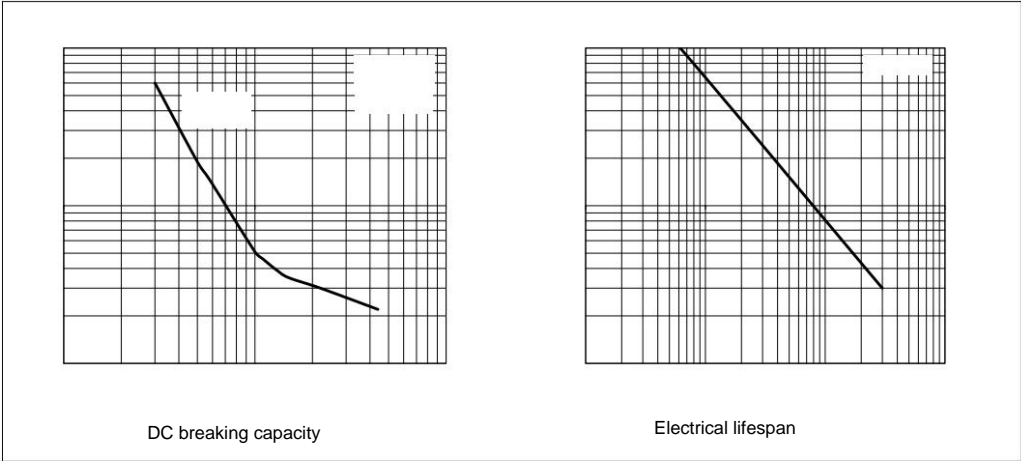
## Connection grid

Solder side



# Power relay H-550

## Diagrams



### Accessories H-550/61 (Execution for 16 A)

Socket and accessories for the DIN rail according to DIN EN 50022:	Article no.:
• Socket with 8 screw terminals •	550-8201
Matching metal retaining bracket • 24 V DC	550-8103
function block with LED and freewheeling diode	550-8108
• DC 24 V function block with freewheeling diode	550-8109

Socket and accessories for PCB mounting:	
• Socket, 8-pole •	550-8104
Matching metal retaining bracket	550-8106

### H-550/64 (Execution for 12 A)

Socket and accessories for the DIN rail according to DIN EN 50022:	Article no.:
• Socket with 5 screw terminals •	550-8102
Matching metal retaining bracket • 24 V DC	550-8103
function module with LED and freewheeling diode	550-8108
• DC 24 V function block with freewheeling diode	550-8109

Socket and accessories for PCB mounting:	Article no.:
• Socket, 5-pin •	550-8105
Matching metal retaining bracket	550-8106