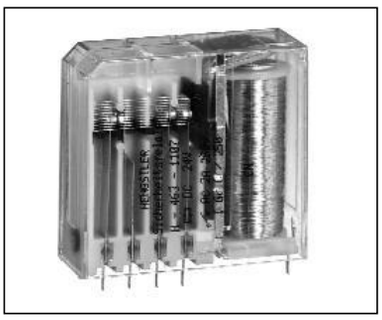
Safety Relay H-463



General
- 4 contacts
- Forced guided contact set
- According to EN 50205, application type A
- Ambient temperature –25 ... +80 °C
- Soldering heat resistance 260 °C/5s
- RoHS compliance

Connections
- Soldering pins for PCB, pre-soldered with Sn100

Drive
- Direct current, neutral monostable
- Bistable upon request

Approvals
- CSA • TÜV

Standards
- EN 50205 • IEC 61810-1

Technical Data
mechanical

Dimensions L x W x H (in mm)	dustproof:	42,7 x 16 x 38,8
	washtight:	42,7 x 16 x 39,9
Shock resistance NO-contact/NC-contact		15/15 g, 11 ms Half sinus
Vibration resistance NO-contact/NC-contact		1,5/1,5 g, 10 – 150 Hz
Operating time NC-contact, contact opens		typical 10 ms
Operating time NO-contact, contact closes		typical 14 ms
Releasing time NO-contact, contact opens		typical 3,5 ms
Releasing time NC-contact, contact closes		typical 4,5 ms
Mechanical service life (without load)		$>10^7$ cycles
Weight		50 g

Technical Data
electrical

Max. switching capacity		AC 1.200 VA, DC *W
Max. switching voltage		AC 230/240 V, DC *V
Max. switching current		6 A
Consant current I_{th2}		6 A
Constant current I_{th2} at the same time over 2 contacts		6 A
Constant current I_{th2} at the same time over 3 contacts		5 A
Switching capacity	AC-15 230/240 V	Ie = 1,5 A
	DC-13 24 V	Ie = 2 A
Electrical service life (with nominal load)		$>10^5$ cycles
Short-circuit capacity 1.000 A/AC 230 V		6 A gL/gG-fuse

* see DC-switching capacity

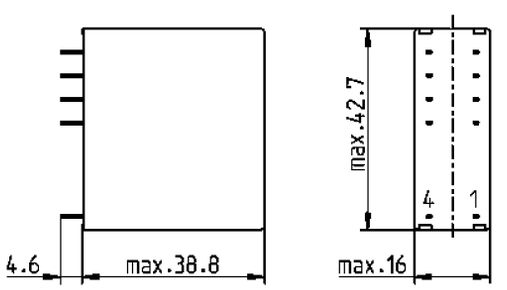
Insulation

Over voltage category (Ü) III
Degree of pollution (V) 2
Insulating material group II

B-I = Basic insulation
V-I = Reinforced (double) insulation

Insulation between	Nominal voltage network system		Air-/ creeping distance	Test voltage 50Hz/60s
	AC 120/240 V	AC 230/400 V		
Contact – Contact	V-I	B-I	> 3 mm	AC 2.500 V
Contactset – Drive	V-I	B-I	> 3 mm	AC 2.500 V

Dimensions



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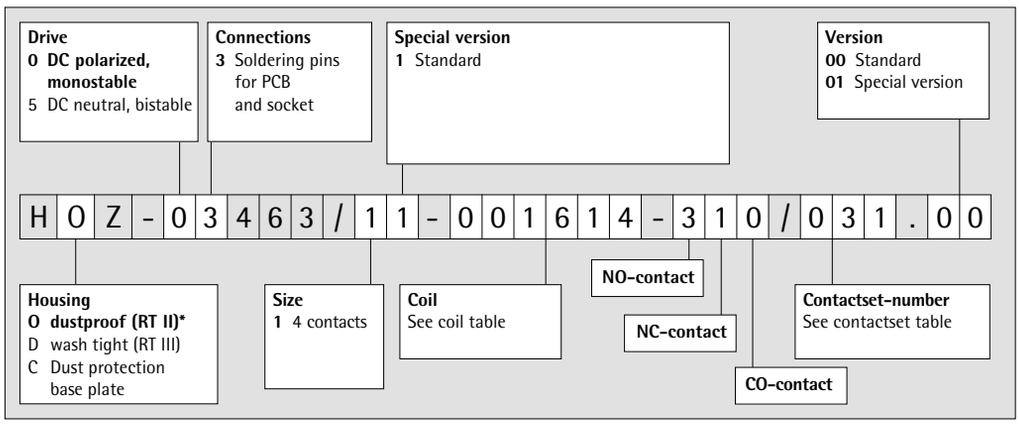
Type key



* **Preferred version**

Contactset table

Number of contacts NO/NC/CO-contacts	AgCdO +0,2 µm Au	AgCdO +5 µm Au	AgCdO +10 µm Au	$AgSnO_2$ +0,2 µm Au	$AgSnO_2$ +5 µm Au	Contact material
220	030	038	034	040	041	Contactset number
310	031	037	032	043	044	

Coil table

All values at ambient temperature Tu = 20 °C

Number of contacts 310

Coil-No.	Resistance R/Ω	Resistance-tolerance ±	U_1/V	U_2/V	U_3/V	$U_{rück}$/V	Printing U_{nom}/V
1626	32	5%	3,9	10,3	11	0,7	6
1620	130	7%	8,0	20,7	23	1,5	12
1614	500	8%	16,1	40,4	45	2,9	24
1611	1.900	7%	31,6	79,0	89	5,7	48
1709	3.100	7%	40,4	100,9	114	7,3	60
1083	10.000	9%	73,9	179,9	202	13,0	110
1303	25.000	12%	125,5	281,7	328	21,1	220

All values at ambient temperature Tu = 20 °C

Number of contacts 220

Coil-No.	Resistance R/Ω	Resistance-tolerance ±	U_1/V	U_2/V	U_3/V	$U_{rück}$/V	Printing U_{nom}/V
1626	32	5%	3,9	10,3	11	0,5	6
1620	130	7%	8,0	20,7	23	1,1	12
1614	500	8%	16,1	40,4	45	2,1	24
1611	1.900	7%	31,6	79,0	89	4,2	48
1709	3.100	7%	40,4	100,9	114	5,4	60
1083	10.000	9%	73,9	179,9	202	9,5	110
1303	25.000	12%	125,5	281,7	328	15,4	220

U_1: Minimum operating voltage with consideration of coil self heating
U_2: Thermal restricted maximum coil voltage
U_3: Maximum admissible coil voltage to realize a contact gap of > 0.5 mm also at a contact fault
$U_{rück}$: Releasing voltage

Further coils are possible and available

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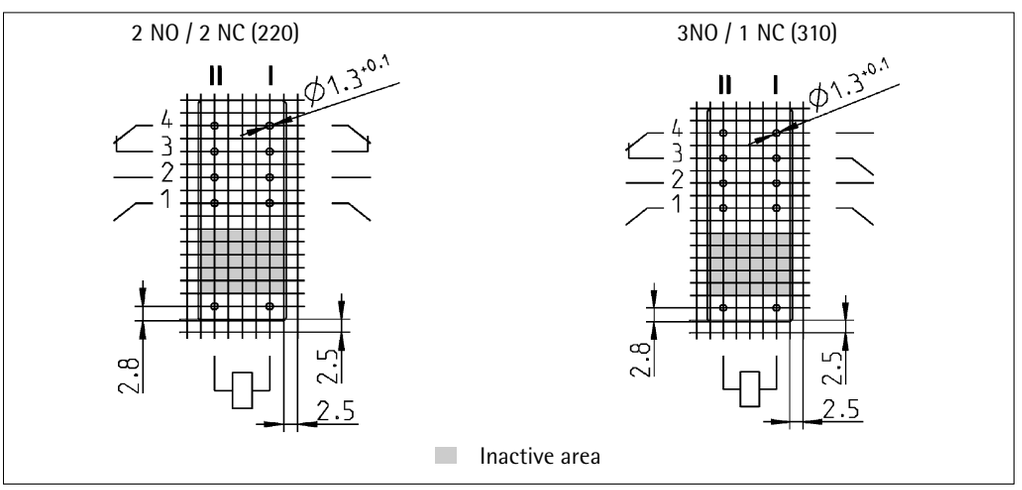
Running types

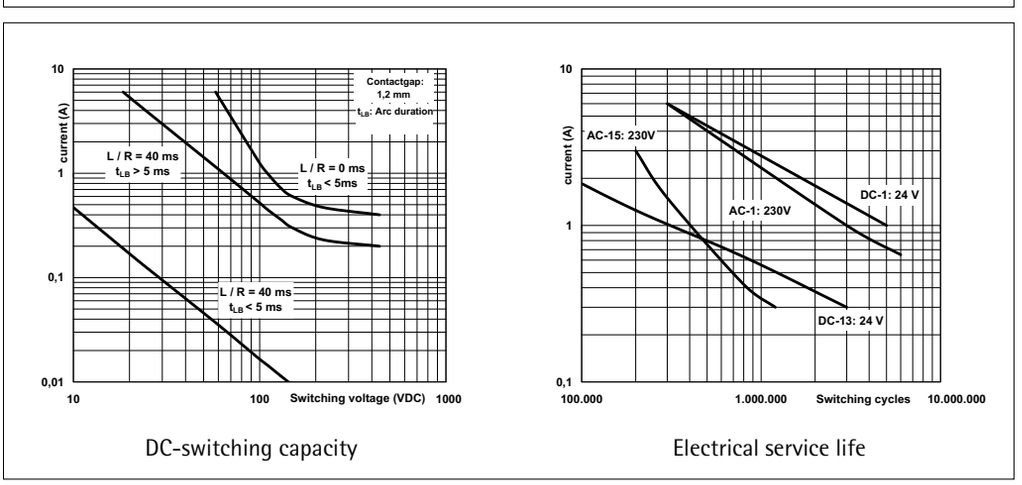
Article-No.	Type key	Printing U_{nom}	U_1/V	U_2/V	U_3/V	$U_{rück}$/V
463-1013	HOZ-03463/11-001620-220/030.00	DC 12 V	8,0	20,7	23	1,1
463-1014	HOZ-03463/11-001620-310/031.00	DC 12 V	8,0	20,7	23	1,5
463-1034	HOZ-03463/11-001614-310/031.00	DC 24 V	16,1	40,4	45	2,9
463-1119	HOZ-03463/11-001626-220/030.00	DC 6 V	3,9	10,3	11	0,5
463-1122	HOZ-03463/11-001614-220/030.00	DC 24 V	16,1	40,4	45	2,1
463-1145	HOZ-03463/11-001614-220/038.00	DC 24 V	16,1	40,4	45	2,1
463-1164	HOZ-03463/11-001303-220/030.00	DC 220 V	125,5	281,7	328	15,4
463-1179	HOZ-03463/11-001614-310/037.00	DC 24 V	16,1	40,4	45	2,9
463-1185	HOZ-03463/11-001620-220/038.00	DC 12 V	8,0	20,7	23	1,1
463-1195	HOZ-03463/11-001614-220/038.00	DC 24 V	16,1	40,4	45	2,1
463-1212	HOZ-03463/11-001083-220/038.00	DC 110 V	73,9	179,9	202	9,5
463-1220	HOZ-03463/11-001520-220/038.01	DC 12 V	8,0	20,7	23	1,1

Connection grid

Few on soldering side



Diagrams



DC-switching capacity

Electrical service life

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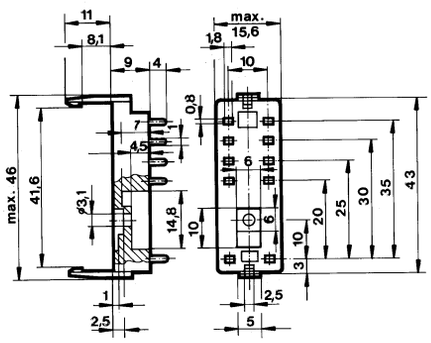
Accessories

Socket for PCB mounting



Article-No.: 463-8001

Base plate for dust protection
and insulation strength: 2,5 kV
Article-No.: 463-8002