

Technical Data mechanical

Technical Data electrical

Insulation

Size 1

Size 2

1/4

General

- 4 or 6 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

• Direct current, polarized monostable

Approvals

• cUL/us • TÜV

Standards

• EN 50205 • IEC 61810-1 • UL 508

Dimensions L x W x H (in mm) Size 1: 44,6 x 12,5 x 30 Size 2: 50 x 12,5 x 30 Shock resistance NO-contact/NC-contact 10/9 g, 16 ms half sinus Vibration resistance NO-contact/NC-contact 5/5 g, 5 - 200 Hz Operating time NC-contact, contact opens typical 15 ms Operating time NO-contact, contact closes typical 17 ms Releasing time NO-contact, contact opens typical 6 ms typical 8 ms Releasing time NC-contact, contact closes Mechanical service life (without load) >10⁷ cycles Weight Size 1: 35 g Size 2: 38 g

Max. switching capacity AC 1.500 VA, DC *W Max. switching voltage AC 230/240 V, DC *V Max. switching current 8 A

Size 1 Constant current I_{th_2} Constant current I_{th_2} at same time over 2 contacts 6 A 4,2 A Constant current I_{th2} at same time over 3 contacts 3,5 A

Size 2 Constant current I_{th2}
Constant current I_{th2} at same time over 2 contacts 6 A 5,2 A Constant current I_{th_2} at same time over 3 contacts 4,2 A Constant current Ith2 at same time over 4 contacts

AC-15 230/240 V $Ie = 4/2 A (contact AgNi/AgSnO_2)$ Switching capacity DC-13 24 V $Ie = 2/1,5A (contact AgNi/AgSnO_2)$

Electrical service life (with nominal load) >105 cycles Short-circuit capacity 1.000 A/AC 230 V 6 A gL/gG-fuse * see DC-switching capacity

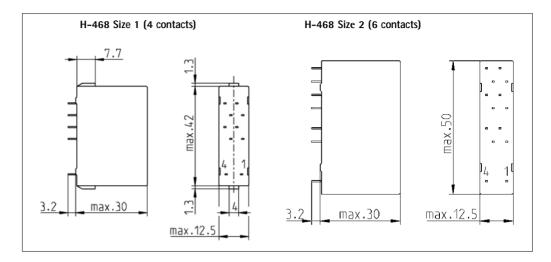
Over voltage category (Ü) III B-I = Basic insulation

Degree of pollution (V) 2 V-I = Reinforced (double) insulation

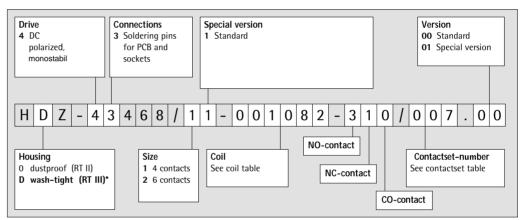
msulating material group ii							
Insulation	Nominal voltage	network system	Air-/	Test voltage			
between	AC 120/240 V AC 230/400 V		creeping distance	50 Hz/60 s			
Contact - Contact	V-I	B-I	> 3 mm	AC 2.000 V			
Contactset – Drive	V-I	B-I	> 3 mm	AC 2.500 V			
Insulation	Nominal voltage	network system	Air-/	Test voltage 50 Hz/60 s			
between	AC 120/240 V	AC 230/400 V	creeping distance				
Drive-contact- group A*	V-I	B-I	> 3,0 mm	1.500 V			
Drive-contact- group B*	V-I	V-I	> 5,5 mm	3.000 V			
Contacts within contactgroup A	V-I	B-I	> 3,0 mm	1.500 V			
Contacts within contactgroup B	V-I	B-I	> 3,0 mm	1.500 V			
Contactgroup A and B	V-I	V-I	> 5,5 mm	3.000 V			

* Contactgroup A and B see connection grid

Dimensions



Type key



^{*} Preferred version

Contactset table

Number of contacts	AgNi	AgNi	AgSnO ₂	AgSnO ₂	Comboot motorial	
NO/NC/CO-contacts	+0,2 µm Au	+2 µm Au	+0,2 μm Au	+2 µm Au	Contact material	
220	002	800	010	012		
310	001	007	009	011	Contostast www.hov	
420	051	053	055	057	Contactset number	
510	050	052	054	056		

All values at ambient temperature Tu = 20 °C

Coil table

Coil-No.	Resistance	Resistance-	U ₁ /V	U ₂ /V	U ₃ /V	$U_{r\ddot{u}ck}/V$	Printing
	R/Ω	tolerance ±					U_{nom}/V
1088	67	7%	4,6	13,0	38	1,1	6
1080	255	8%	9,1	25,2	74	2,2	12
1082	1.020	8%	18,1	50,4	148	4,3	24
1083	3.910	9%	37,3	98,2	297	8,7	48
1084	6.140	10%	46,8	122,6	369	10,8	60
1002	18.855	14%	85,8	212,1	641	18,7	110

U₁: U₂:

Minimum operating voltage with consideration of coil self heating Thermal restricted maximum coil voltage Maximum admissible coil voltage to realize a contact gap of $> 0.5\,$ mm also at a contact fault U₃:

Releasing voltage

Further coils are possible and available.

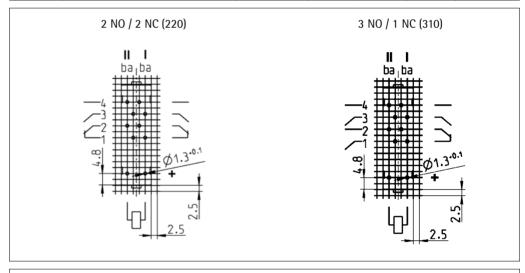
Running types

Article-No.	Type key	Printing U _{nom}	U ₁ /V	U ₂ /V	U ₃ /V	U _{rück} /V
468-1001	HDZ-43468/11-001088-310/001.00	DC 6 V	4,6	13,0	38	1,1
468-1002	HDZ-43468/11-001080-310/001.00	DC 12 V	9,1	25,2	74	2,2
468-1003	HDZ-43468/11-001082-310/001.00	DC 24 V	18,1	50,4	148	4,3
468-1009	HDZ-43468/11-001080-310/007.00	DC 12 V	9,1	25,2	74	2,2
468-1010	HDZ-43468/11-001082-310/007.00	DC 24 V	18,1	50,4	148	4,3
468-1012	HDZ-43468/11-001083-310/007.00	DC 48 V	37,3	98,2	297	8,7
468-1016	HDZ-43468/11-001080-220/002.00	DC 12 V	9,1	25,2	74	2,2
468-1017	HDZ-43468/11-001082-220/002.00	DC 24 V	18,1	50,4	148	4,3
468-1021	HDZ-43468/11-001002-220/002.00	DC 110 V	85,8	212,1	641	18,7
468-1023	HDZ-43468/11-001080-220/008.00	DC 12 V	9,1	25,2	74	2,2
468-1024	HDZ-43468/11-001082-220/008.00	DC 24 V	18,1	50,4	148	4,3
468-1026	HDZ-43468/11-001083-220/008.00	DC 48 V	37,3	98,2	297	8,7
468-1027	HDZ-43468/11-001084-220/008.00	DC 60 V	46,8	122,6	369	10,8
468-1064	HDZ-43468/11-001082-310/009.00	DC 24 V	18,1	50,4	148	4,3
468-1133	HOZ-43468/11-001082-310/001.01	DC 24 V	18,1	50,4	148	4,3
468-1140	HOZ-43468/11-001082-310/007.00	DC 24 V	18,1	50,4	148	4,3
468-1141	HOZ-43468/11-001082-220/008.00	DC 24 V	18,1	50,4	148	4,3
468-1160	HOZ-43468/11-001080-310/007.00	DC 12 V	9,1	25,2	74	2,2
468-1165	HDZ-43468/21-001082-510/050.00	DC 24 V	18,1	50,4	148	4,3
468-1166	HDZ-43468/21-001082-420/051.00	DC 24 V	18,1	50,4	148	4,3
468-1167	HOZ-43468/21-001082-510/050.00	DC 24 V	18,1	50,4	148	4,3
468-1168	HOZ-43468/21-001082-420/051.00	DC 24 V	18,1	50,4	148	4,3

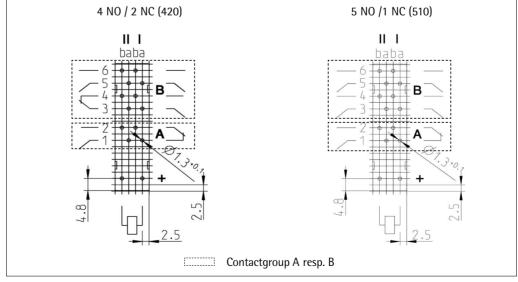
Connection grid

View on soldering side

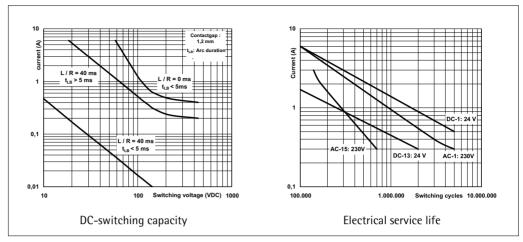
Size 1



Size 2



Diagram



Accessories H-468/1 (4 contacts)

