

NH Fuse-links

Size	NH000 - NH4a
Class	gG / gL
Rated voltage	AC 500 V
Rated breaking capacity	120 kA
Standard	VDE 0636 Teil 201 IEC 60269-2-1
Article-Number	see dimensions

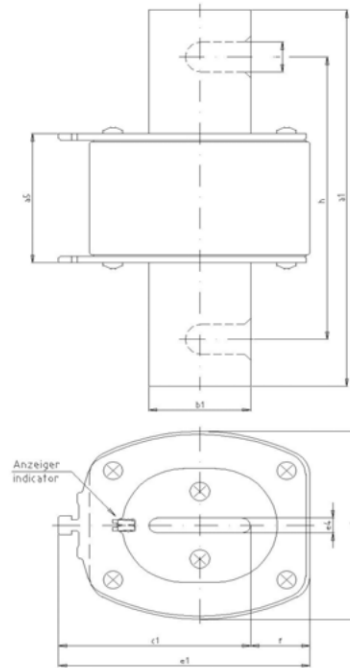
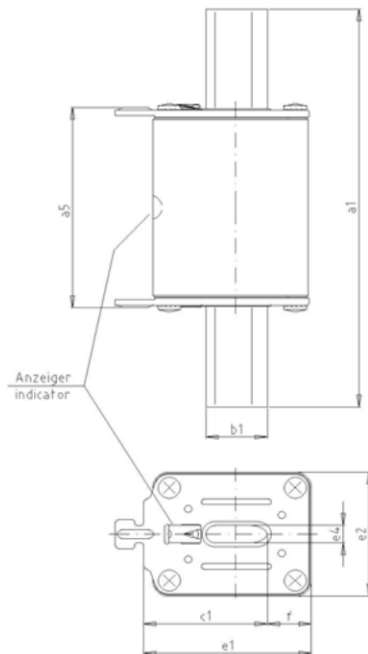
Inhalt Contents

Dimensions	N00013-20 Rev. 0	N00013-21 Rev. 0
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Abmessungen / Dimensions Standard-Ausführung / Standard-Type

Größe Size	NH 000	NH 00	NH 0	NH 1	NH 2	NH 3
Artikel Nr. Part No.	20 000 13	20 001 13	20 002 13	20 003 13	20 004 13	20 005 13

Größe Size	NH 4	NH 4a
Artikel Nr. Part No.	20 006 13	20 120 13



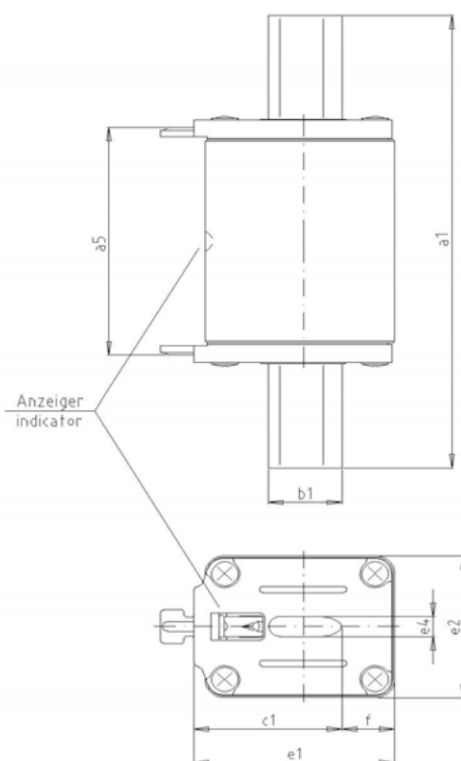
Spannungsführende Griffflaschen Non insulated removal tags

Große Size	I_n / A	a_5	a_1	b_1	e_4	e_1	e_2	f	c_1	h	i
NH 000	2 - 100	47	78	15	6	40,5	20,5	7	35	-	-
NH 00	125 - 160	47	78	15	6	46	29,5	13	35	-	-
NH 0	2 - 160	65	125	15	6	46	29,5	13	35	-	-
NH 1	16 - 160	65	135	20	6	46	29,5	8	40	-	-
	200 - 250	65	135	20	6	51,5	42	14	40	-	-
NH 2	16 - 160	65	150	20	6	46	29,5	5,5	48	-	-
	200 - 250	65	150	20	6	51,5	42	14	48	-	-
	315 - 400	65	150	26	6	59	53	14	48	-	-
NH 3	63 - 400	65	150	26	6	59	53	14	60	-	-
	500 - 630	65	150	32	6	73,5	65	17	60	-	-
NH 4	≤ 1250	65	200	50	8	110	102	29	87	150	16
	1600	87	200	50	8	110	102	29	87	150	16
NH 4a	400 - 1600	87	200	50	6	110	102	28	85	-	-

Abmessungen / Dimensions ISOMET-Ausführung / ISOMET-Type

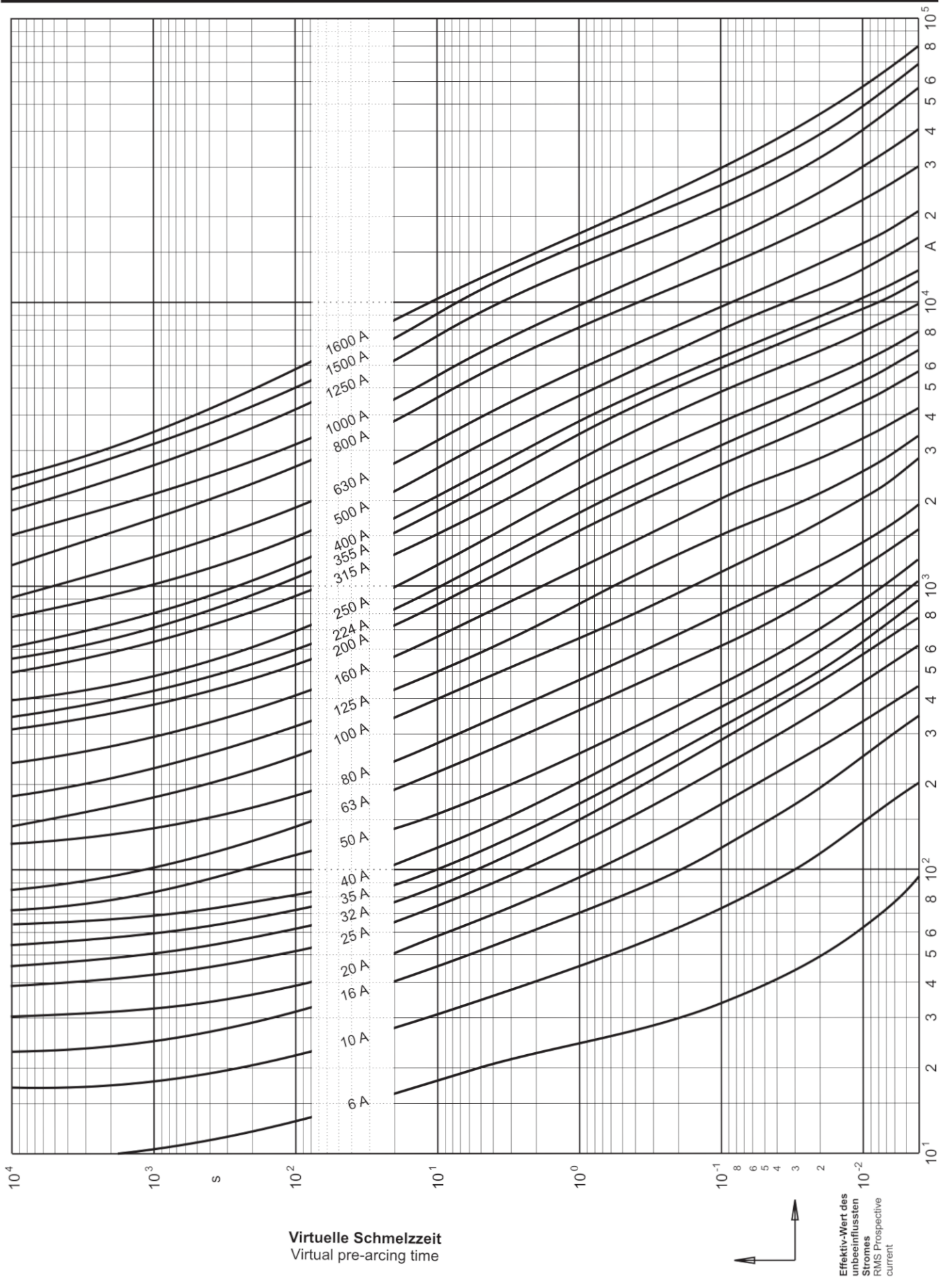
Größe Size	NH 000	NH 00	NH1	NH 2	NH 3	
Artikel Nr. Part No.	20 438 13	20 439 13	20 441 13	20 442 13	20 443 13	

Kunststoffdeckel Insulated cover plate

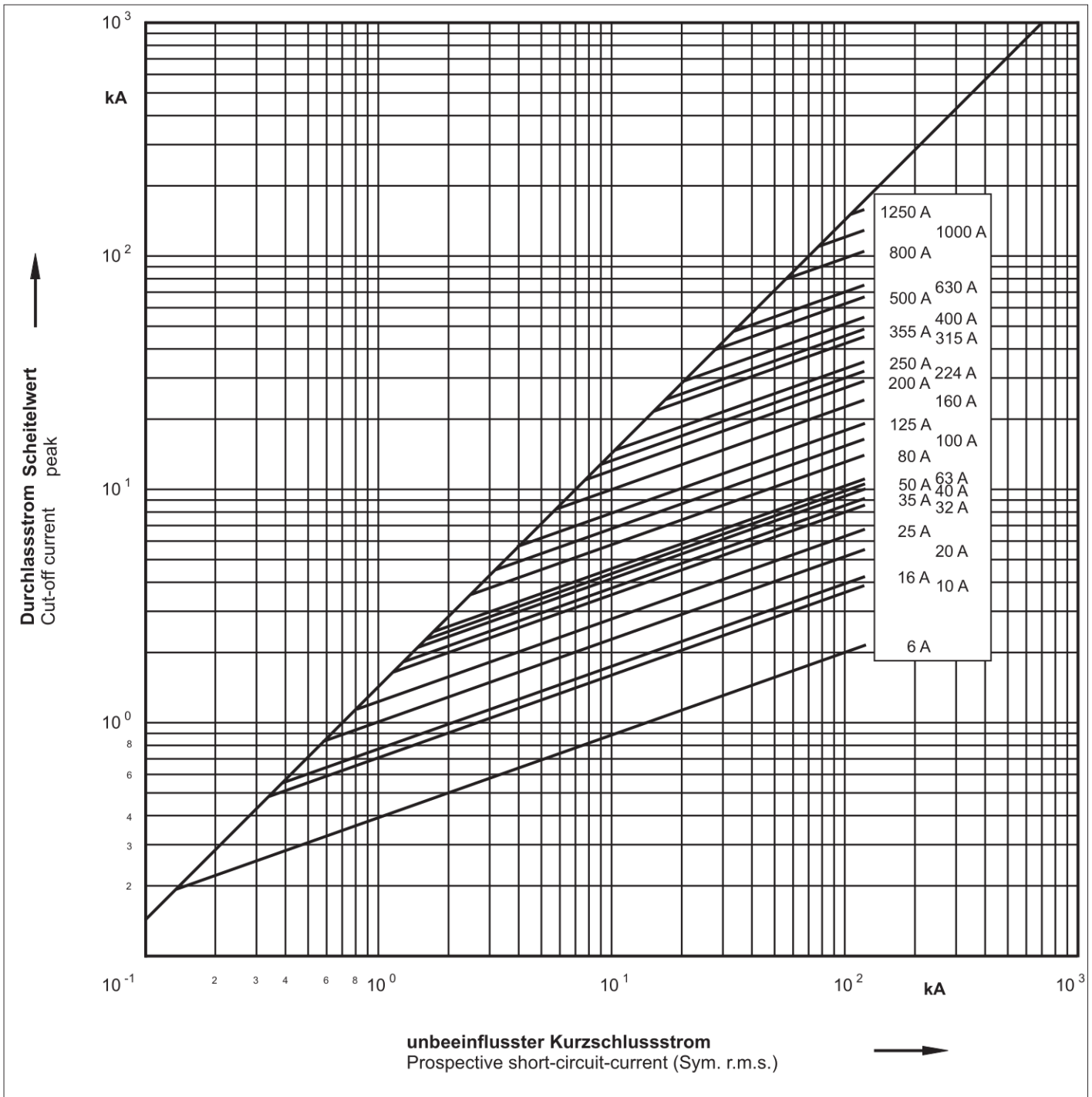


Spannungsfreie metallische Griffflaschen Insulated metal removal tags

Größe Size	I _n / A	a ₅	a ₁	b ₁	e ₄	e ₁	e ₂	f	c ₁		
NH 000	2 - 100	47	78	15	6	40,5	20,5	7	35		
NH 00	125 - 160	47	78	15	6	46	29,5	13	35		
NH 1	16 - 160	65	135	20	6	46	29,5	8	40		
	200 - 250	65	135	20	6	51,5	42	14	40		
NH 2	16 - 160	65	150	20	6	46	29,5	5,5	48		
	200 - 250	65	150	20	6	51,5	42	14	48		
	315 - 400	65	150	26	6	59	53	14	48		
NH 3	500 - 630	65	150	32	6	73,5	65	17	60		



Durchlassstrom
Cut-off current



Leistungsabgabe
 Power loss

Bemessungs- strom Rated current [A]	Leistungsabgabe / Power loss						
	NH000 [W]	NH00 [W]	NH1 [W]	NH2 [W]	NH3 [W]	NH4 [W]	NH4a [W]
6	1,4						
10	1,2						
16	1,6		1,9				
20	1,8		2,2				
25	2,3		2,6				
32	3,1		3,5				
35	3,8		3,9	3,9			
40	4		4,3	4,3			
50	4,0		5,1	5,1			
63	4,5		5,8	5,8			
80	5,4		6,5	6,5			
100	6,5		7,8	7,8	7,8		
125		8,15	10,0	10,0	10,0		
160		11,2	12,8	12,8	12,8		
200			15,0	15,5	15,5		
224			16,2	16,4	16,4		
250			17,9	18,0	18,0	18	
315				21,5	21,5	22	
355				23,7	23,7	24	
400				29,5	29,5	26	34
500					38	38	41
630					46	49	49
800						66	70
1.000						78	83
1.250						95	104
1.500							127
1.600							138

Melting- and operating-integrals

Bemessungs- strom Rated current [A]	Schmelzintegral ts ≈ 4 ms Pre-arc i ² t [A ² s]	Ausschaltintegral bei AC 254 V Total i ² t @ AC254V [A ² s]	Ausschaltintegral bei AC 440 V Total i ² t @ AC440V [A ² s]
6	36	75	130
10	230	320	560
16	420	490	810
20	760	910	1.480
25	1.440	1.780	2.890
32	2.600	3.360	5.630
35	3.100	4.770	7.610
40	4.700	6.750	11.300
50	5.900	8.340	13.600
63	10.300	16.200	26.400
80	17.300	27.200	45.500
100	28.900	45.500	88.600
125	44.400	78.600	127.500
160	78.500	139.600	226.600
200	157.600	248.200	390.900
224	194.800	297.600	483.400
250	240.800	368.000	616.000
315	513.000	716.000	1.164.000
355	616.000	859.000	1.483.000
400	859.000	1.236.000	2.008.000
500	1.130.000	1.670.000	2.800.000
630	1.950.000	2.980.000	4.840.000
800	3.700.000	5.450.000	8.900.000
1.000	5.800.000	8.900.000	14.400.000
1.250	11.000.000	16.200.000	27.200.000
1.500	13.200.000	19.400.000	32.600.000
1.600	14.000.000	20.700.000	33.600.000

Technical data

These technical data are based on tests, which were accomplished to the appropriate national or international standards in accredited test laboratories or in the company laboratory. If not otherwise indicated, the data were acquired with an ambient temperature of 20-25°C in calm air. The tests were done with new fuse-links, without preloading and from cold condition.

Time-current characteristics

The operational behaviour of the fuse-link is defined in its time-current characteristic and given as an arithmetic average value of a set of electrical tests in a double-logarithmic diagram. The general tolerance of the characteristic is $\pm 10\%$, or, for certain fuse types $\pm 7\%$. A broken line indicates that the fuse-link is not able to interrupt overcurrents in this range.

Cut-off current diagram

The diagram serves to determine the maximum cut-off current as peak value, depending on the possible prospective current. Determined values, refer to an operating frequency of 50 cycles. A higher frequency leads to lower values of cut-off current. However, lower frequencies lead to higher values.

Melting and Operating Integrals

This data apply to the current limiting range of the fuse-link with fusing times lower than 10 ms. If not specially designated, the melting integral is given as a minimum value and the operating integral is indicated as a maximum value. The values of the operating integral are usually indicated for the rated voltage of the fuse-link. Lower load voltages lead to smaller values of the operating-integral. Typically for miniature fuses the integral values are indicated at 10 times rated current.

Power dissipation and Power loss

The loss of power, which is converted by the fuse-link loaded with its rated current under specified conditions. Indicated document values can possibly differ remarkable from actual measured values, as different installation conditions are not considered. For miniature fuses, the power loss is given at the non-fusing current (e.g. 1,5times rated current).

Fuse-links described in this document were developed to take over safety relevant functions as a part of a machine or complete installation. A safety-relevant system usually contains signalling devices, sensors, evaluation units and concepts for safe disconnection. The guarantee and responsibility of correct overall function lies with the manufacturer of the installation or machine. SIBA GmbH & Co. KG and their sales offices (in the following "SIBA") are not able to guarantee all features of a complete installation or machine, which was not designed by SIBA.

Once a product has been selected, it should be tested by the user in all possible applications.

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