Wkładki topikowe NH 400V gTr

Typ: NH2 - NH4a

Charakterystyka: gTr

Prąd znamionowy: 72-1440A (50-1000kVA)

Napięcie znamionowe: 400V AC

Zwarciowa zdolność wyłączania: 100kA

Wg normy: IEC PN 60269-1

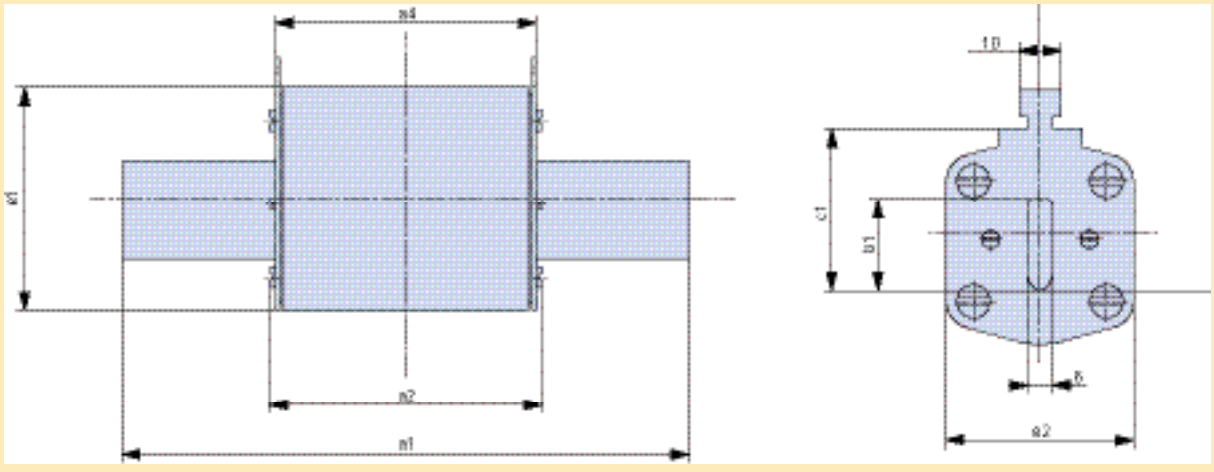
Budowa: Korpus ze steatytu,
styki miedziane srebrzone,
bez zawartości Cd i Pb,
pokrywy aluminiowe
chwytaki w wersji izolowanej i nieizolowanej

Wkładki topikowe gTr 400V AC ze wskaźnikiem górnym

U_n	Wielkość	I_n [A]	S_n [kVA]	Wskaźnik zadziałania	Straty mocy P_n [W]	Opakowanie	Uchwyty nieizolowane		Uchwyty izolowane	
							Typ	Nr artykułu	Typ	Nr artykułu
400V	2	72	50	Wskaźnik górny	5,8	3	M2TT72	N2304000	M2TT72ISM	N2304018
		108	75		8,5		M2TT108	N2304400	M2TT108ISM	N2304418
		144	100		9,5		M2TT145	N2304700	M2TT144ISM	N2304718
		180	125		12,8		M2TT180	N2305100	M2TT180ISM	N2305118
		231	160		14,6		M2TT231	N2305500	M2TT231ISM	N2305518
		289	200		18,8		M2TT289	N2305700	M2TT289ISM	N2305718
		361	250		23,5		M2TT361	N2306100	M2TT361ISM	N2306118
	3	72	50	Wskaźnik górny	5,8	3	M3TT72	N3304000	M3TT72ISG	N3304008
		108	75		8,5		M3TT108	N3304400	M3TT108ISG	N3304408
		144	100		9,5		M3TT145	N3304700	M3TT145ISG	N3304708
		180	125		12,8		M3TT181	N3305100	M3TT180ISG	N3305108
		231	160		14,6		M3TT231	N3305500	M3TT231ISG	N3305508
		289	200		18,8		M3TT289	N3305700	M3TT289ISG	N3305708
		361	250		23,5		M3TT361	N3306100	M3TT361ISG	N3306108
		455	315		30,5		M3TT455	N3306500	M3TT455ISG	N3306508
		577	400		40,4		M3TT577	N3306700	M3TT577ISG	N3306708
		722	500		49,0		M3GTR722	N3307100	-	-
		909	630		58,0		M3GTR910	N3307500	-	-
	4a	72	50	Wskaźnik górny	8,8	1	M4aTT72	N4304000	-	-
		108	75		9,3		M4aTT108	N4304400	-	-
		144	100		10,9		M4TT144	N4304700	-	-
		180	125		13,0		M4aTT180	N4305100	-	-
		231	160		17,6		M4aTT231	N4305500	-	-
		289	200		20,2		M4aTT289	N4305700	-	-
		361	250		25,6		M4aTT361	N4306100	-	-
		455	315		31,4		M4aTT455	N4306500	-	-
		577	400		37,5		M4aTT577	N4306700	-	-
		722	500		50,5		M4aTT722	N4307100	-	-
		909	630		61,0		M4aTT909	N4307500	-	-
		1155	800		92,0		M4aTT1155	N4307700	-	-
		1500	1000		98,0		M4aTT1443	N4308200	-	-

Wkładki topikowe gTr 400V AC ze wskaźnikiem środkowym

U_n	Wielkość	I_n [A]	S_n [kVA]	Wskaźnik zadziałania	Straty mocy P_n [W]	Opakowanie	Uchwyty nieizolowane		Uchwyty izolowane	
							Typ	Nr artykułu	Typ	Nr artykułu
400V	2	72	50	Wskaźnik środkowy	5,8	3	M2TT72MI	N2304004	M2TT72MI/ISM	N2304019
		108	75		8,5		M2TT108MI	N2304404	M2TT108MI/ISM	N2304419
		144	100		9,5		M2TT144MI	N2304704	M2TT144MI/ISM	N2304719
		180	125		12,8		M2TT180MI	N2305104	M2TT180MI/ISM	N2305119
		231	160		14,6		M2TT231MI	N2305504	M2TT321MI/ISM	N2305519
		289	200		18,8		M2TT289MI	N2305704	M2TT289MI/ISM	N2305719
		361	250		23,5		M2TT361MI	N2306104	M2TT361MI/ISM	N2306119
	3	72	50	Wskaźnik środkowy	5,8	3	M3TT72MI	N3304004	M3TT72MI/ISG	N3304012
		108	75		8,5		M3TT108MI	N3304404	M3TT108MI/ISG	N3304412
		144	100		9,5		M3TT145MI	N3304704	M3TT145MI/ISG	N3304712
		180	125		12,8		M3TT180MI	N3305104	M3TT181MI/ISG	N3305112
		231	160		14,6		M3TT231MI	N3305504	M3TT231MI/ISG	N3305512
		289	200		18,8		M3TT289MI	N3305704	M3TT289MI/ISG	N3305712
		361	250		23,5		M3TT361MI	N3306104	M3TT361MI/ISG	N3306112
		455	315		30,5		M3TT455MI	N3306504	M3TT455MI/ISG	N3306512
		577	400		40,4		M3TT577MI	N3306704	M3TT577MI/ISG	N3306712
		722	500		49,0		M3GTR722MI	N3307104	-	-
		909	630		58,0		M3GTR910MI	N3307504	-	-



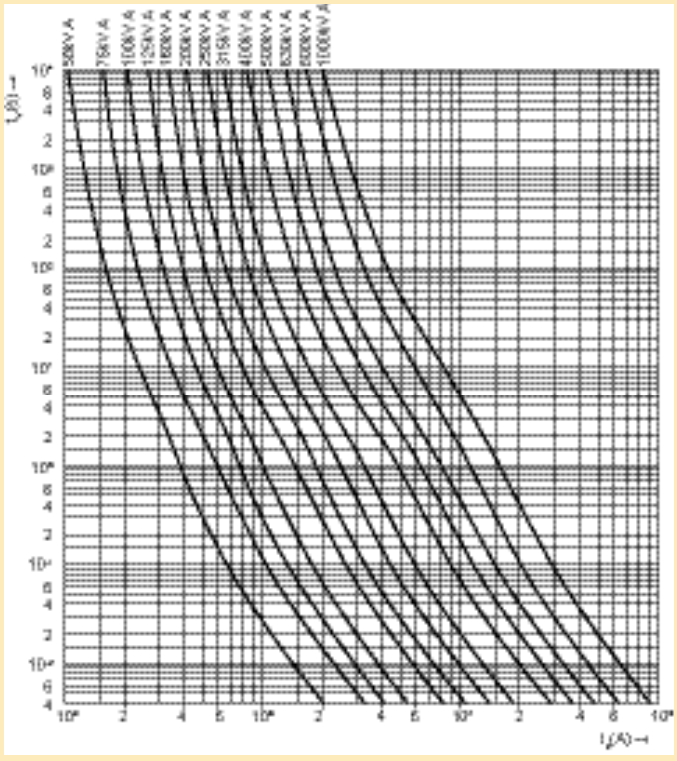
Dane techniczne

Typ			M2GTR(TT)...	M3GTR(TT)...		
Wielkość			NH2	NH3		
Napięcie znamionowe	U_n	V	AC400	AC400		
Prąd znamionowy	I_n	A	72-361	72-361	455-577	722-909
Moc transformatora	S_n	kVA	50-250	50-250	315-400	500-630
Zwarciowa zdolność wyłączenia	-	kA	100	100		
Charakterystyka			gTr	gTr		
Normy			IEC/PN 60269-1 DIN VDE 0636-2011			
Wymiary	a1	mm	150	150	150	150
	a2		72	72	72	73
	a4		67	67	67	67
	b1		26	26	33	37
	c1		48	60	60	60
	e1		63	74	74	76
	e2		54	54	65	73
Waga	-	g	500	510	923	940

Dane techniczne

Typ			M4aGTR(TT)...
Wielkość			NH4a
Napięcie znamionowe	U_n	V	AC400
Prąd znamionowy	I_n	A	72-1443
Moc transformatora	S_n	kVA	50-1000
Zwarciowa zdolność wyłączenia	-	kA	100
Charakterystyka			gTr
Normy			IEC/PN 60269-1 DIN VDE 0636-2011
Wymiary	a1	mm	200
	a2		98
	a4		90
	b1		50
	c1		85
	e1		112
	e2		96
Waga	-	g	2170

Charakterystyka czasowo-prądowa (50-1000kVA)



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NH fuse-links gTr 400VAC

middle indicator/live gripping-lugs size 2, 3, 4a

LOW VOLTAGE IEC FUSES

IEC NH FUSE-LINKS

The NH system is classified among plug-in fuse systems and is composed of:

- fuse-base, (possibly including terminal covers and phase barriers)
- fuse-link with blade contact
- fuse-link replacement device (LV HRC fuse puller)

Since the design of this system cannot guarantee non-interchangeability of rated current, it must be handled by a qualified professional.

NH-fuse links „gTr“ are used for the protection of transformers. The time/current characteristic is especially adapted to that of the protected transformer and implies optimal selectivity to NH-fuse links characteristic gG. The fuses can be loaded with 1,3 times nominal current for up to 10 hours. The fuse link operates at 1,5 times nominal transformer current within 2 hours.

TECHNICAL DATA OVERVIEW

Voltage AC	400 VAC
Nominal capacity of transformer	50 ... 1000 kVA
Ampere Range (A)	72 ... 1443 A
Size per Standard	Sizes 2, 3, 4a
Speed/Characteristic	gTr
I.R. AC (IEC)	100 kA
Body Material	ceramic
Contact Materials	copper, silver-plated

FEATURES & BENEFITS

- Maximum transformer capacity (up to 1·3 x Irat)
- Reduction of unnecessary interruption of operation
- Precise cut off of overload
- Characteristic adapted to the transformer
- Resistant to ageing
- Selectivity to fuse links gG
- High current limiting
- High breaking capacity
- Easy selection between transformer and fuse link

APPLICATIONS

- Protection of transformers

STANDARDS

- VDE 0636 Part 201
- IEC 60269-1 and -2

PRODUCT RANGE

NH22GTR250KVA

Size 2 gTr 400VAC middle indicator

Catalog number	Item number	Rated current I_n	Power dissipation at I_n	Transformer nominal capacity	Width	Weight	Package
NH2GTR50KVA	S1028691	72 A	5.5 W	50 kVA	40 mm	0.5 kg	3/30
NH2GTR75KVA	T1028692	108 A	7.3 W	75 kVA	40 mm	0.5 kg	3/30
NH2GTR100KVA	V1028693	144 A	9 W	100 kVA	40 mm	0.5 kg	3/30
NH2GTR125KVA	W1028694	180 A	11.2 W	125 kVA	40 mm	0.5 kg	3/30
NH2GTR160KVA	Y1028696	231 A	14 W	160 kVA	40 mm	0.5 kg	3/30
NH22GTR200KVA	G1030498	289 A	16 W	200 kVA	50 mm	0.5 kg	3/24
NH22GTR250KVA	H1030499	361 A	21 W	250 kVA	50 mm	0.5 kg	3/24

NH32GTR630KVA

Size 3 gTr 400VAC middle indicator

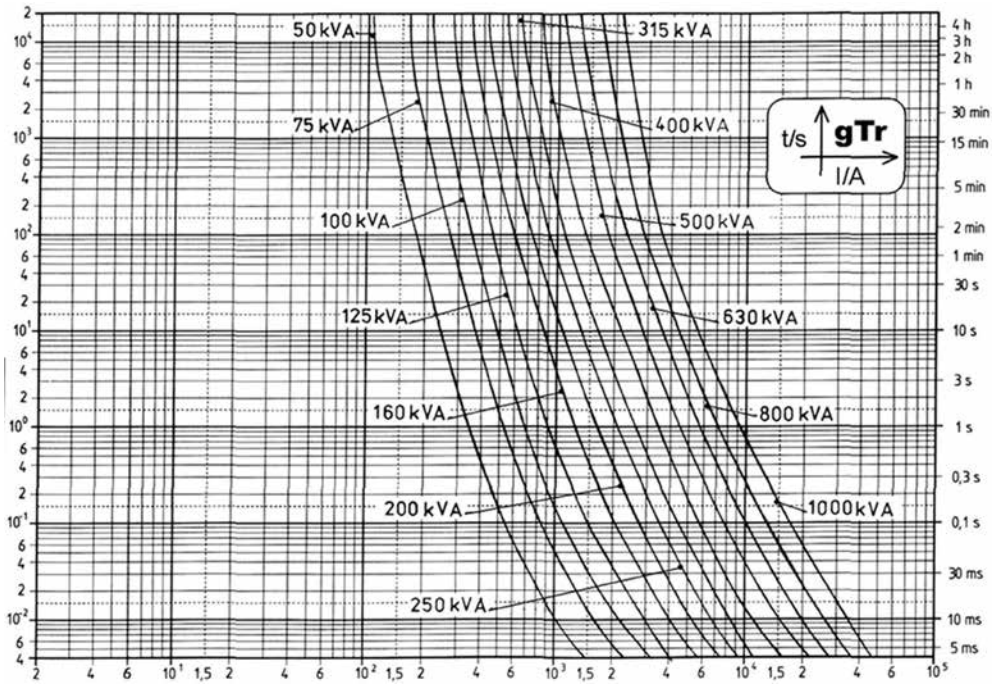
Catalog number	Item number	Rated current I_n	Power dissipation at I_n	Transformer nominal capacity	Width	Weight	Package
NH3GTR50KVA	J1030500	72 A	5.5 W	50 kVA	50 mm	1 kg	1
NH3GTR75KVA	K1030501	108 A	7.3 W	75 kVA	50 mm	1 kg	1
NH3GTR100KVA	L1030502	144 A	9 W	100 kVA	50 mm	1 kg	1
NH3GTR125KVA	J1028706	180 A	11.2 W	125 kVA	50 mm	1 kg	1
NH3GTR160KVA	M1030503	231 A	14 W	160 kVA	50 mm	1 kg	1
NH3GTR200KVA	N1030504	289 A	16 W	200 kVA	50 mm	1 kg	1
NH3GTR250KVA	P1030505	361 A	21 W	250 kVA	50 mm	1 kg	1
NH32GTR315KVA	Y1030513	455 A	25 W	315 kVA	71 mm	1 kg	1
NH32GTR400KVA	Z1030514	577 A	31 W	400 kVA	71 mm	1 kg	1
NH32GTR500KVA	H1028705	722 A	53 W	500 kVA	71 mm	1 kg	1
NH32GTR630KVA	A1030515	909 A	62 W	630 kVA	71 mm	1 kg	1

NH4A2GTR1000KVA

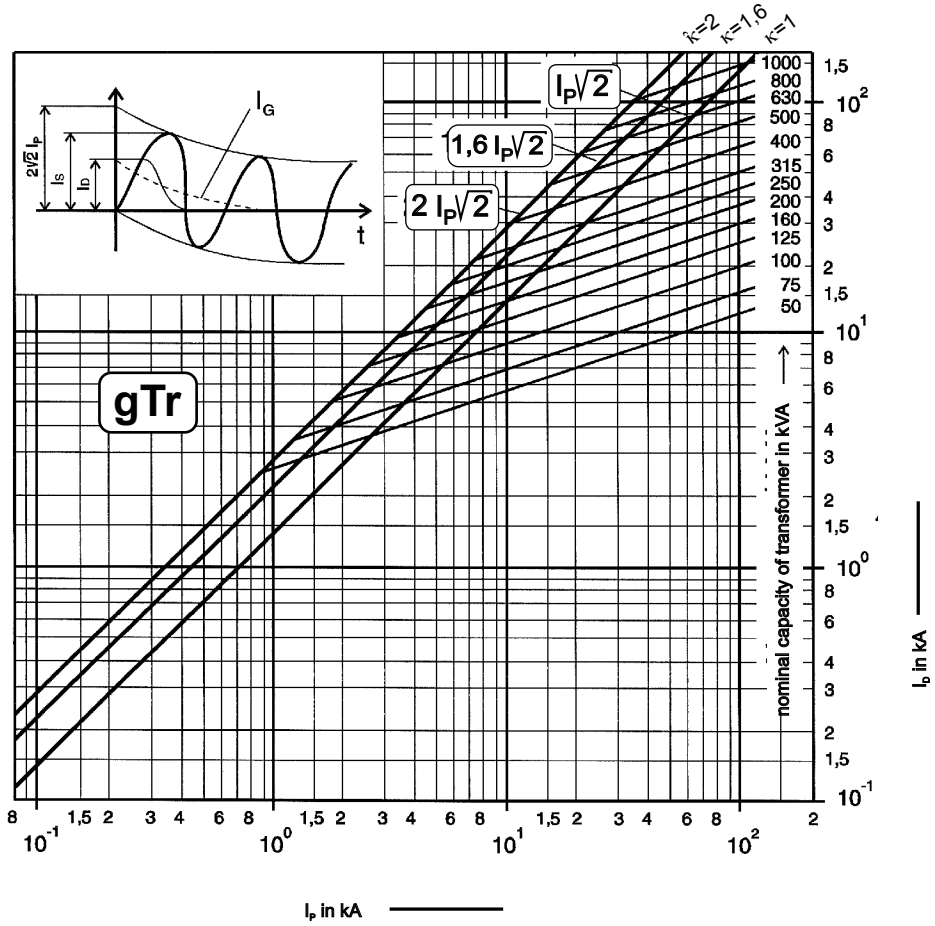
Size 4a gTr 400VAC middle indicator

Catalog number	Item number	Rated current I_n	Power dissipation at I_n	Transformer nominal capacity	Width	Weight	Package
NH4AGTR100KVA	X1028718	144 A	12 W	100 kVA	73 mm	2.2 kg	1
NH4AGTR125KVA	Y1028719	180 A	15 W	125 kVA	73 mm	2.2 kg	1
NH4AGTR160KVA	Z1028720	231 A	18 W	160 kVA	73 mm	2.2 kg	1
NH4AGTR200KVA	A1028721	289 A	23 W	200 kVA	73 mm	2.2 kg	1
NH4AGTR250KVA	B1028722	361 A	28 W	250 kVA	73 mm	2.2 kg	1
NH4AGTR315KVA	C1028723	455 A	32 W	315 kVA	73 mm	2.2 kg	1
NH4AGTR400KVA	D1028724	577 A	39 W	400 kVA	73 mm	2.2 kg	1
NH4A2GTR500KVA	H1030522	722 A	49 W	500 kVA	98 mm	2.2 kg	1
NH4A2GTR630KVA	J1030523	909 A	66 W	630 kVA	98 mm	2.2 kg	1
NH4A2GTR800KVA	K1030524	1155 A	81 W	800 kVA	98 mm	2.2 kg	1
NH4A2GTR1000KVA	L1030525	1443 A	108 W	1000 kVA	98 mm	2.2 kg	1

TIME CURRENT CHARACTERISTIC CURVES

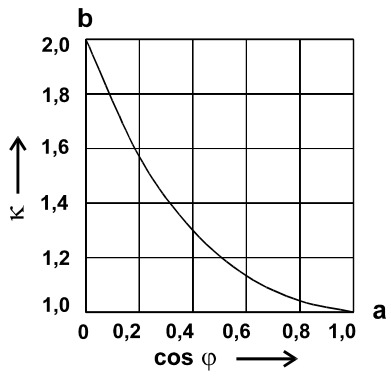


CUT-OFF CURRENT CHARACTERISTIC



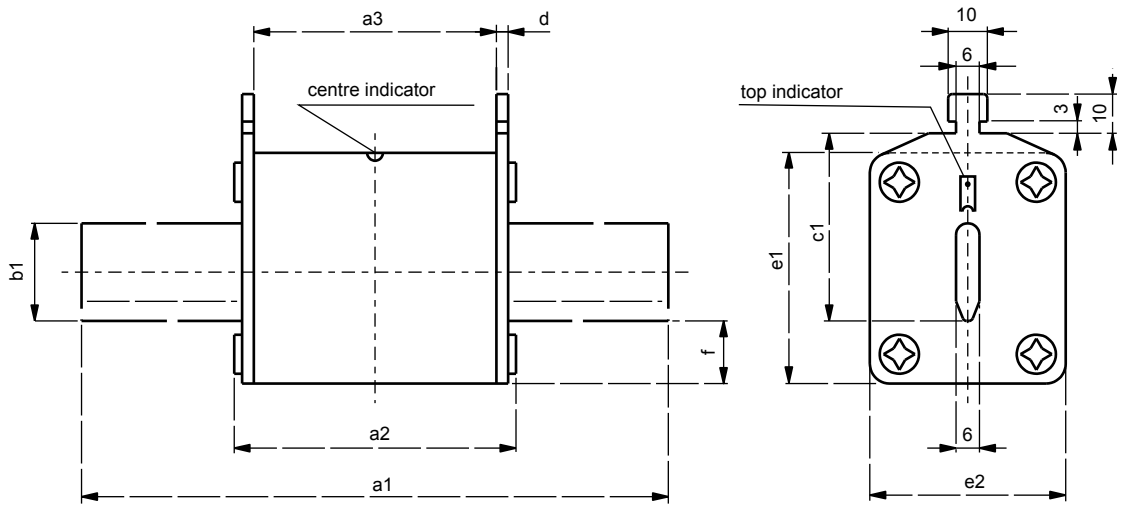
CORRECTION FACTOR

Correction factor of apperiodic component
a ... short_circuit current without direct current component (k = 1)
b ... short circuit current with direct current component (k = 2)



DIMENSIONS

IEC LV NH_fuse link gTr size 2, 3, 4a (M02037_gTr)



size	a1	a2	a3	b1	c1	d	e1	e2	f	design
2	150	72	62	20	48	2·5	48	40	12	live tags compact
				25			59	50	14	live tags standard
		74	64	20		2	53	42		insulated tags compact
				25			60	53		insulated tags standard
3	150	73	62	25	60	2·8	59	50	13	live tags compact
				32			71	71	17	live tags standard
		74	64	25		2	60	53	14	insulated tags compact
		73	62	32			75	73	17	insulated tags standard
4a	200	96	82	50	85	4·0	109	98	27	live tags

Dimensions in mm

NH fuse-links gTr 400VAC

top indicator/live gripping-lugs size 2, 3, 4a

LOW VOLTAGE IEC FUSES

IEC NH FUSE-LINKS

The NH system is classified among plug-in fuse systems and is composed of:

- fuse-base, (possibly including terminal covers and phase barriers)
- fuse-link with blade contact
- fuse-link replacement device (LV HRC fuse puller)

Since the design of this system cannot guarantee non-interchangeability of rated current, it must be handled by a qualified professional.

NH-fuse links „gTr“ are used for the protection of transformers. The time/current characteristic is especially adapted to that of the protected transformer and implies optimal selectivity to NH-fuse links characteristic gG. The fuses can be loaded with 1,3 times nominal current for up to 10 hours. The fuse link operates at 1,5 times nominal transformer current within 2 hours.

TECHNICAL DATA OVERVIEW

Voltage AC	400 VAC
Nominal capacity of transformer	50 ... 1000 kVA
Ampere Range (A)	72 ... 1443 A
Size per Standard	Sizes 2, 3, 4a
Speed/Characteristic	gTr
I.R. AC (IEC)	100 kA
Body Material	ceramic
Contact Materials	copper, silver-plated

FEATURES & BENEFITS

- Maximum transformer capacity (up to 1·3 x Irat)
- Reduction of unnecessary interruption of operation
- Precise cut off of overload
- Characteristic adapted to the transformer
- Resistant to ageing
- Selectivity to fuse links gG
- High current limiting
- High breaking capacity
- Easy selection between transformer and fuse link

APPLICATIONS

- Protection of transformers

STANDARDS

- VDE 0636 Part 201
- IEC 60269-1 and -2

PRODUCT RANGE

NH22GTR250KVA-8

Size 2 gTr 400VAC top indicator

Catalog number	Item number	Rated current I_n	Power dissipation at I_n	Transformer nominal capacity	Width	Weight
NH2GTR50KVA-8	Z1028697	72 A	5.5 W	50 kVA	40 mm	0.5 kg
NH2GTR75KVA-8	A1028698	108 A	7.3 W	75 kVA	40 mm	0.5 kg
NH2GTR100KVA-8	B1028699	144 A	9 W	100 kVA	40 mm	0.5 kg
NH2GTR125KVA-8	D1028701	180 A	11.2 W	125 kVA	40 mm	0.5 kg
NH2GTR160KVA-8	E1028702	231 A	14 W	160 kVA	40 mm	0.5 kg
NH22GTR200KVA-8	F1028703	289 A	16 W	200 kVA	50 mm	0.5 kg
NH22GTR250KVA-8	G1028704	361 A	21 W	250 kVA	50 mm	0.5 kg

NH32GTR630KVA-8

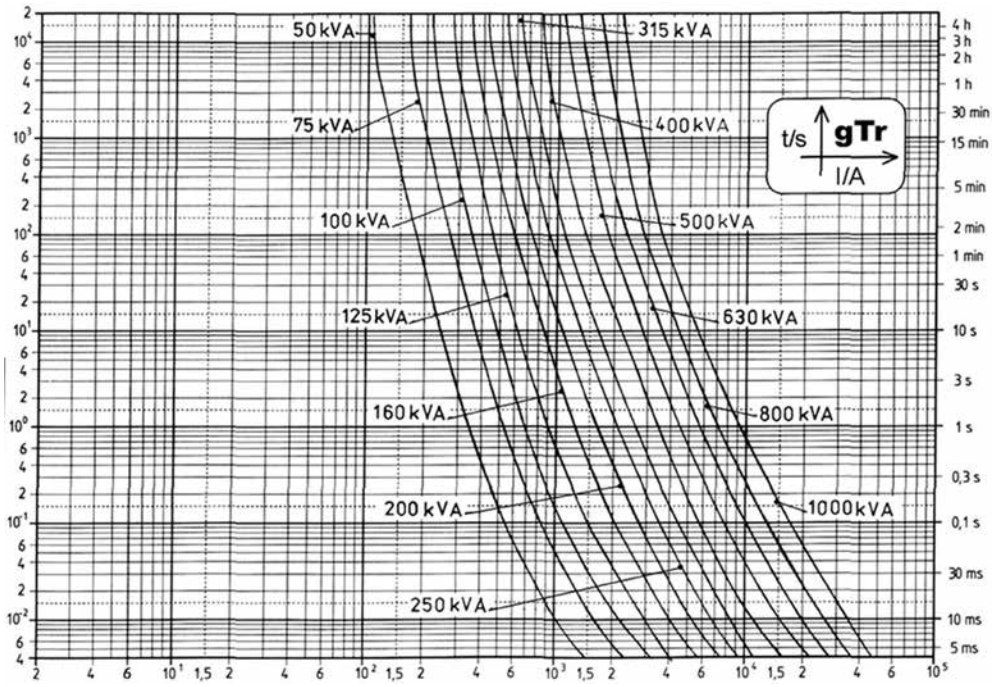
Size 3 gTr 400VAC top indicator

Catalog number	Item number	Rated voltage AC (IEC)	Rated current I_n	Power dissipation at I_n	Transformer nominal capacity	Width	Weight	Package
NH3GTR75KVA-8	L1028708	400 V	108 A	7.3 W	75 kVA	50 mm	1 kg	1
NH3GTR100KVA-8	M1028709	400 V	144 A	9 W	100 kVA	50 mm	1 kg	1
NH3GTR125KVA-8	N1028710	400 V	180 A	11.2 W	125 kVA	50 mm	1 kg	1
NH3GTR160KVA-8	P1028711	400 V	231 A	14 W	160 kVA	50 mm	1 kg	1
NH3GTR200KVA-8	Q1028712	400 V	289 A	16 W	200 kVA	50 mm	1 kg	1
NH3GTR250KVA-8	R1028713	400 V	361 A	21 W	250 kVA	50 mm	1 kg	1
NH32GTR315KVA-8	S1028714	400 V	455 A	25 W	315 kVA	71 mm	1 kg	1
NH32GTR400KVA-8	T1028715	400 V	577 A	31 W	400 kVA	71 mm	1 kg	1
NH32GTR500KVA-8	V1028716	400 V	722 A	53 W	500 kVA	71 mm	1 kg	1
NH32GTR630KVA-8	W1028717	400 V	909 A	62 W	630 kVA	71 mm	1 kg	1

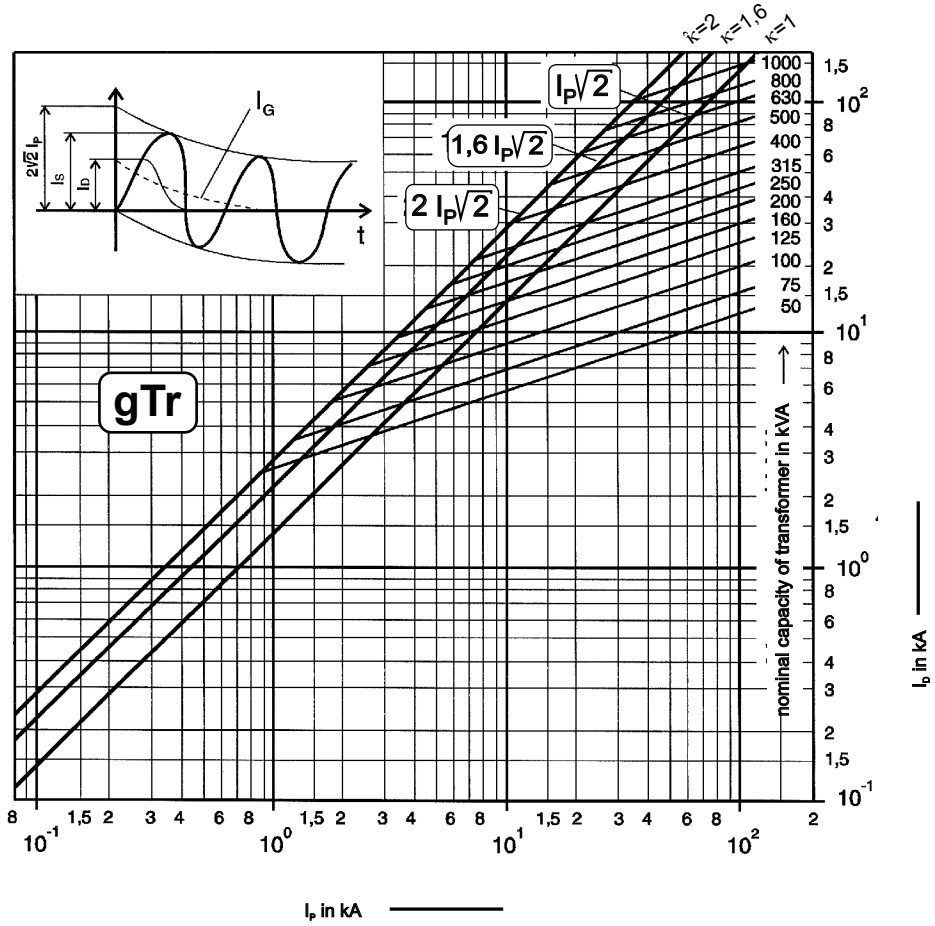
Size 4a gTr 400VAC top indicator

Catalog number	Item number	Rated voltage AC (IEC)	Rated current I_n	Power dissipation at I_n	Transformer nominal capacity	Width	Weight	Package
NH4AGTR100KVA-8	E1028725	400 V	144 A	12 W	100 kVA	73 mm	2.2 kg	1
NH4AGTR125KVA-8	F1028726	400 V	180 A	15 W	125 kVA	73 mm	2.2 kg	1
NH4AGTR160KVA-8	G1028727	400 V	231 A	18 W	160 kVA	73 mm	2.2 kg	1
NH4AGTR200KVA-8	H1028728	400 V	289 A	23 W	200 kVA	73 mm	2.2 kg	1
NH4AGTR250KVA-8	J1028729	400 V	361 A	28 W	250 kVA	73 mm	2.2 kg	1
NH4AGTR315KVA-8	K1028730	400 V	455 A	32 W	315 kVA	73 mm	2.2 kg	1
NH4AGTR400KVA-8	L1028731	400 V	577 A	39 W	400 kVA	73 mm	2.2 kg	1
NH42GTR500KVA-8	V1030487	-	722 A	49 W	500 kVA	98 mm	2.2 kg	1
NH42GTR630KVA-8	W1030488	-	909 A	66 W	630 kVA	98 mm	2.2 kg	1
NH42GTR800KVA-8	Y1030490	-	1155 A	81 W	800 kVA	98 mm	2.2 kg	1
NH42GR1000KVA-8	B1029067	-	1443 A	108 W	1000 kVA	98 mm	2.2 kg	1

TIME CURRENT CHARACTERISTIC CURVES



CUT-OFF CURRENT CHARACTERISTIC

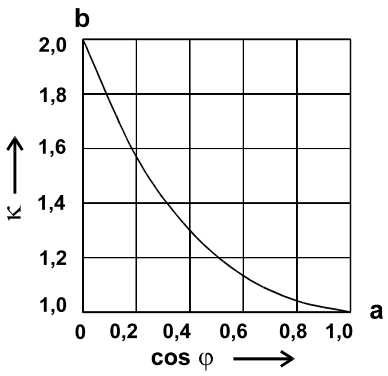


CORRECTION FACTOR

Correction factor of apperiodic component

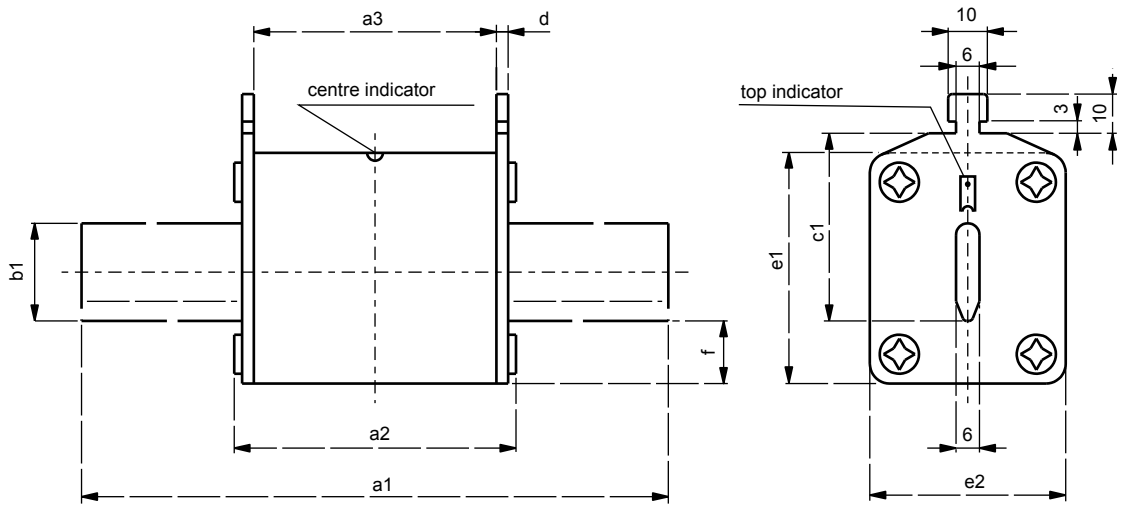
a ... short_circuit current without direct current component (k = 1)

b ... short circuit current with direct current component (k = 2)



DIMENSIONS

IEC LV NH_fuse link gTr size 2, 3, 4a (M02037_gTr)



size	a1	a2	a3	b1	c1	d	e1	e2	f	design
2	150	72	62	20	48	2·5	48	40	12	live tags compact
				25			59	50	14	live tags standard
		74	64	20		2	53	42		insulated tags compact
				25			60	53		insulated tags standard
3	150	73	62	25	60	2·8	59	50	13	live tags compact
				32			71	71	17	live tags standard
		74	64	25		2	60	53	14	insulated tags compact
		73	62	32			75	73	17	insulated tags standard
4a	200	96	82	50	85	4·0	109	98	27	live tags

Dimensions in mm

NH fuse-links gTr 400VAC

middle indicator/isolated gripping-lugs size 2, 3

LOW VOLTAGE IEC FUSES

IEC NH FUSE-LINKS

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- fuse-link replacement device (LV HRC fuse puller)

Since the design of this system cannot guarantee non-interchangeability of rated current, it must be handled by a qualified professional.

NH-fuse links „gTr“ are used for the protection of transformers. The time/current characteristic is especially adapted to that of the protected transformer and implies optimal selectivity to NH-fuse links characteristic gG. The fuses can be loaded with 1,3 times nominal current for up to 10 hours. The fuse link operates at 1,5 times nominal transformer current within 2 hours.

TECHNICAL DATA OVERVIEW

Voltage AC	400 VAC
Nominal capacity of transformer	50 ... 400 kVA
Ampere Range (A)	72 ... 577 A
Size per Standard	Sizes 2, 3, 4a
Speed/Characteristic	gTr
I.R. AC (IEC)	100 kA
Body Material	ceramic
Contact Materials	copper, silver-plated

FEATURES & BENEFITS

- Maximum transformer capacity (up to 1·3 x Irat)
- Reduction of unnecessary interruption of operation
- Precise cut off of overload
- Characteristic adapted to the transformer
- Resistant to ageing
- Selectivity to fuse links gG
- High current limiting
- High breaking capacity
- Easy selection between transformer and fuse link

APPLICATIONS

- Protection of transformers

STANDARDS

- VDE 0636 Part 201
- IEC 60269-1 and -2

PRODUCT RANGE

NH2G-TR250KVA-1

Size 2 gTr 400VAC isolated gripping-lugs

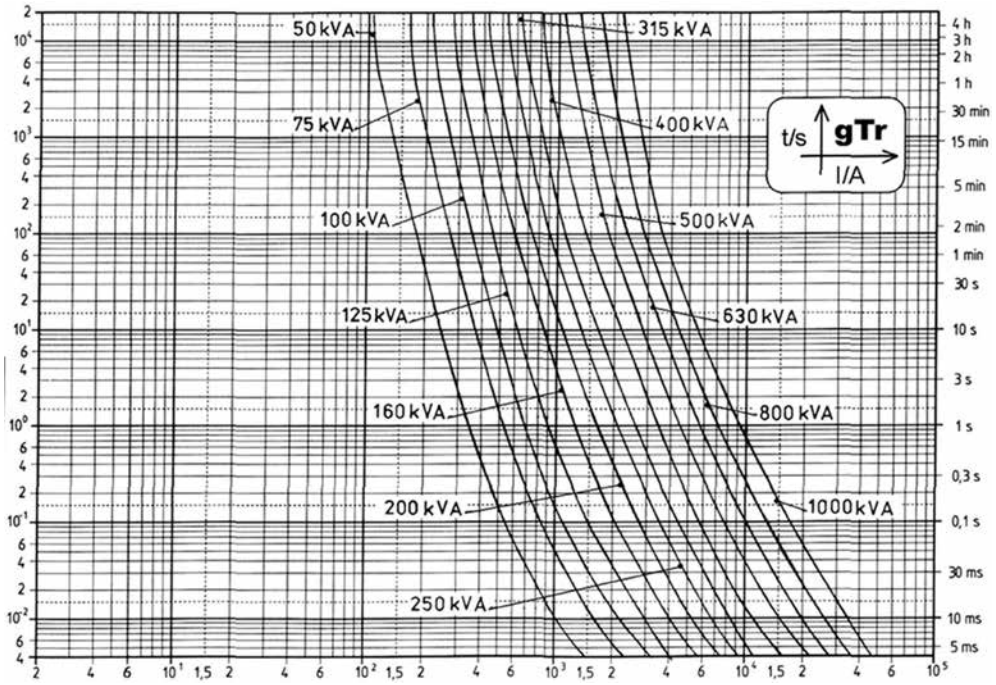
Catalog number	Item number	Rated current I_n	Power dissipation at I_n	Transformer nominal capacity	Width	Weight
NH2GTR50KVA-1	M1028686	72 A	5.5 W	50 kVA	42 mm	0.5 kg
NH2GTR75KVA-1	N1028687	108 A	7.3 W	75 kVA	42 mm	0.5 kg
NH2GTR100KVA-1	P1028688	144 A	9 W	100 kVA	42 mm	0.5 kg
NH2GTR125KVA-1	Q1028689	180 A	11.2 W	125 kVA	42 mm	0.5 kg
NH2GTR160KVA-1	R1028690	231 A	14 W	160 kVA	42 mm	0.5 kg
NH2GTR200KVA-1	Q1030529	289 A	16 W	200 kVA	53 mm	0.5 kg
NH2GTR250KVA-1	R1030530	361 A	21 W	250 kVA	53 mm	0.5 kg

NH32GTR400KVA-1

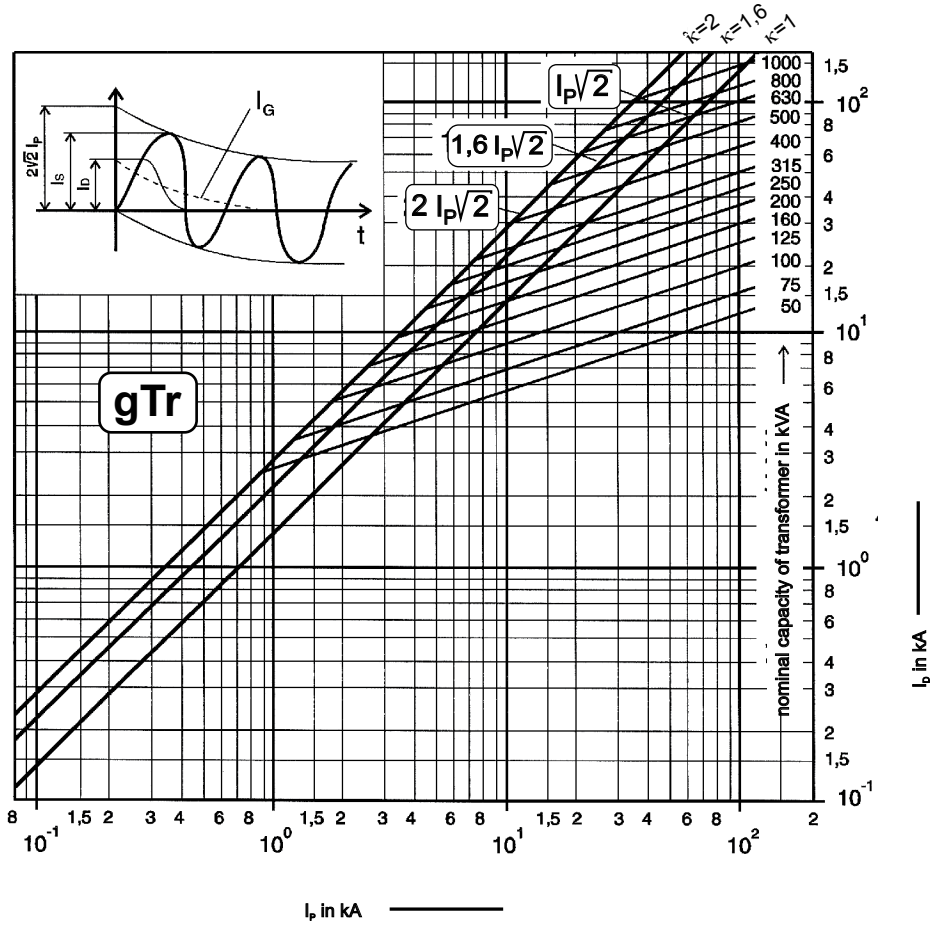
Size 3 gTr 400VAC isolated gripping-lugs

Catalog number	Item number	Rated voltage AC (IEC)	Rated current I_n	Power dissipation at I_n	Transformer nominal capacity	Width	Weight	Package
NH3GTR50KVA-1	S1030531	400 V	72 A	5.5 W	50 kVA	53 mm	1 kg	1
NH3GTR75KVA-1	T1030532	400 V	108 A	7.3 W	75 kVA	53 mm	1 kg	1
NH3GTR100KVA-1	V1030533	400 V	144 A	9 W	100 kVA	53 mm	1 kg	1
NH3GTR125KVA-1	W1030534	400 V	180 A	11.2 W	125 kVA	53 mm	1 kg	1
NH3GTR160KVA-1	X1030535	400 V	231 A	14 W	160 kVA	53 mm	1 kg	1
NH3GTR200KVA-1	Y1030536	400 V	289 A	16 W	200 kVA	53 mm	1 kg	1
NH3GTR250KVA-1	Z1030537	400 V	361 A	21 W	250 kVA	53 mm	1 kg	1
NH32GTR315KVA-1	D1030541	400 V	455 A	21 W	315 kVA	73 mm	1 kg	1
NH32GTR400KVA-1	E1030542	400 V	577 A	25 W	400 kVA	73 mm	1 kg	1

TIME CURRENT CHARACTERISTIC CURVES



CUT-OFF CURRENT CHARACTERISTIC

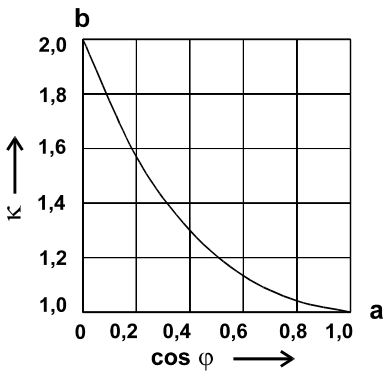


CORRECTION FACTOR

Correction factor of apperiodic component

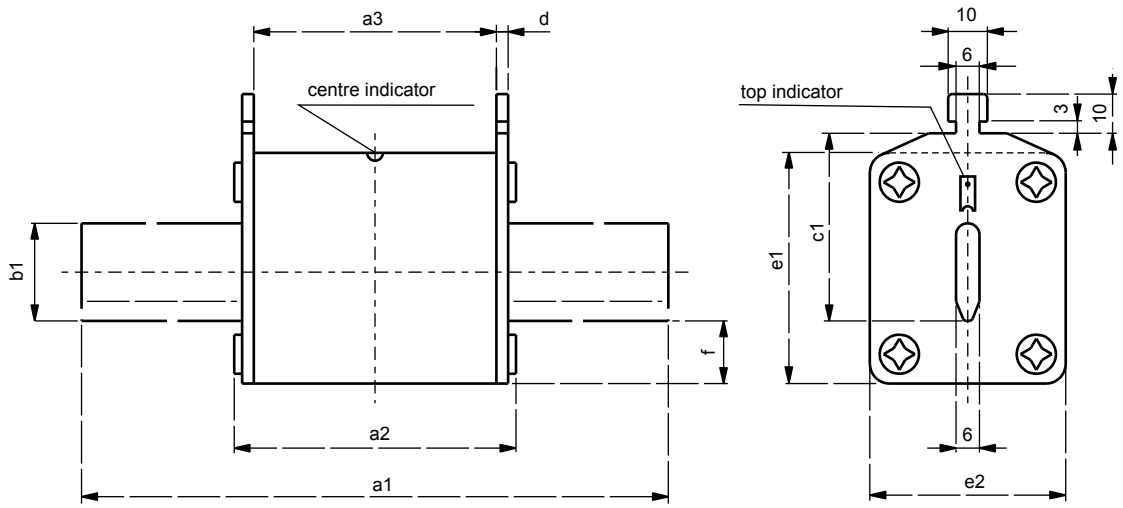
a ... short_circuit current without direct current component (k = 1)

b ... short circuit current with direct current component (k = 2)



DIMENSIONS

IEC LV NH_fuse link gTr size 2, 3, 4a (M02037_gTr)



size	a1	a2	a3	b1	c1	d	e1	e2	f	design
2	150	72	62	20	48	2·5	48	40	12	live tags compact
				25			59	50	14	live tags standard
		74	64	20		2	53	42		insulated tags compact
				25			60	53		insulated tags standard
3	150	73	62	25	60	2·8	59	50	13	live tags compact
				32			71	71	17	live tags standard
		74	64	25		2	60	53	14	insulated tags compact
		73	62	32			75	73	17	insulated tags standard
4a	200	96	82	50	85	4·0	109	98	27	live tags

Dimensions in mm