

NH fuse-links gTr 400VAC

centre indicator/insulated tags size 2, 3

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.

Features Benefits

- Maximum transformer capacity (up to $1 \cdot 3 \times I_{rat}$)
- 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 cut off capacity
- Easy selection between transformer and fuse link

Applications

- Protection of transformers

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 (kA)	100 kA
Body Material	ceramic
Contact Materials	copper, silver-plated



Standards

DIN 57636 Part 201

VDE 0636 Part 201

DIN 57636 Part 22

VDE 0636 Part 22

IEC 60269-1 and -2

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Product range



NH2GTR250KVA-1

Size 2

Catalog number	Reference number	Rated current I_n	Power dissipation at I_n	Transformer nominal capacity	Width	Weight	Package
NH2GTR100KVA-1	P1028688	144 A	9 W	100 kVA	42 mm	0.46 kg	3/30
NH2GTR125KVA-1	Q1028689	180 A	11.2 W	125 kVA	42 mm	0.46 kg	3/30
NH2GTR160KVA-1	R1028690	231 A	14 W	160 kVA	42 mm	0.46 kg	3/30
NH2GTR200KVA-1	Q1030529	289 A	16 W	200 kVA	53 mm	0.54 kg	3/24
NH2GTR250KVA-1	R1030530	361 A	21 W	250 kVA	53 mm	0.54 kg	3/24
NH2GTR50KVA-1	M1028686	72 A	5.5 W	50 kVA	42 mm	0.46 kg	3/30
NH2GTR75KVA-1	N1028687	108 A	7.3 W	75 kVA	42 mm	0.46 kg	3/30

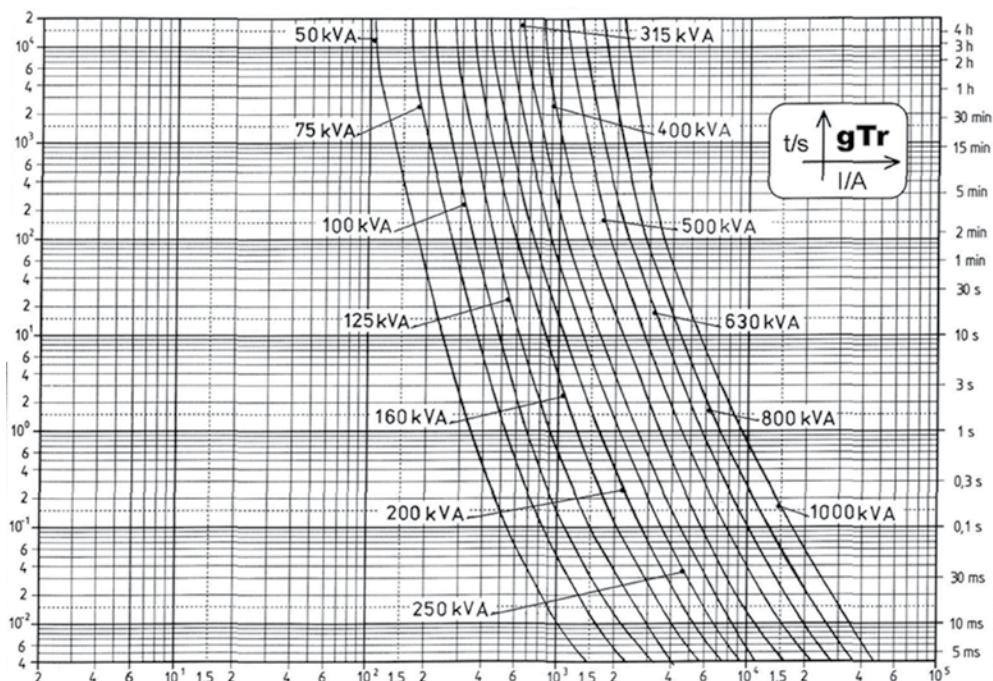


NH32GTR400KVA-1

Size 3

Catalog number	Reference number	Rated current I_n	Power dissipation at I_n	Transformer nominal capacity	Width	Weight	Package
NH3GTR50KVA-1	S1030531	72 A	5.5 W	50 kVA	53 mm	0.64 kg	3/24
NH3GTR75KVA-1	T1030532	108 A	7.3 W	75 kVA	53 mm	0.64 kg	3/24
NH3GTR100KVA-1	V1030533	144 A	9 W	100 kVA	53 mm	0.64 kg	3/24
NH3GTR160KVA-1	X1030535	231 A	14 W	160 kVA	53 mm	0.64 kg	3/24
NH3GTR200KVA-1	Y1030536	289 A	16 W	200 kVA	53 mm	0.64 kg	3/24
NH3GTR250KVA-1	Z1030537	361 A	21 W	250 kVA	53 mm	0.64 kg	3/24
NH32GTR315KVA-1	D1030541	455 A	21 W	315 kVA	73 mm	1.2 kg	3/18
NH32GTR400KVA-1	E1030542	577 A	25 W	400 kVA	73 mm	1.2 kg	3/18
NH3GTR125KVA-1	W1030534	180 A	11.2 W	125 kVA	53 mm	0.64 kg	3/24

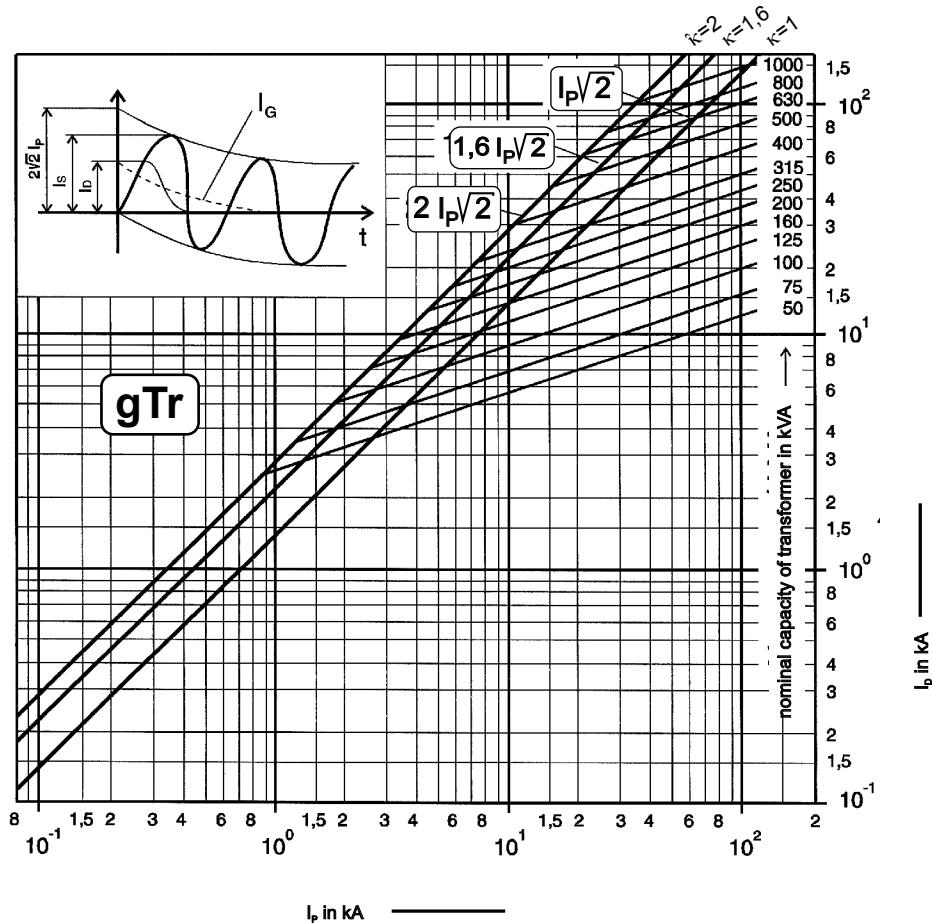
Time current characteristic curves



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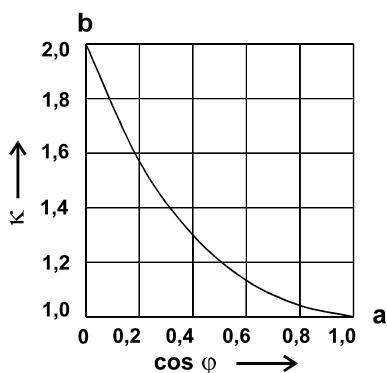
Current limiting diagram



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 ($k = 2$)

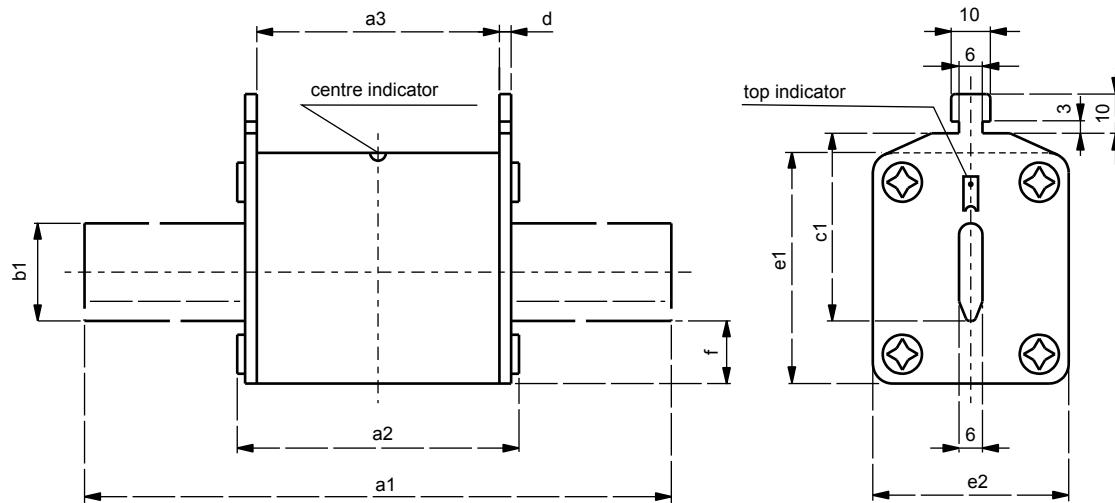


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Dimensions

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