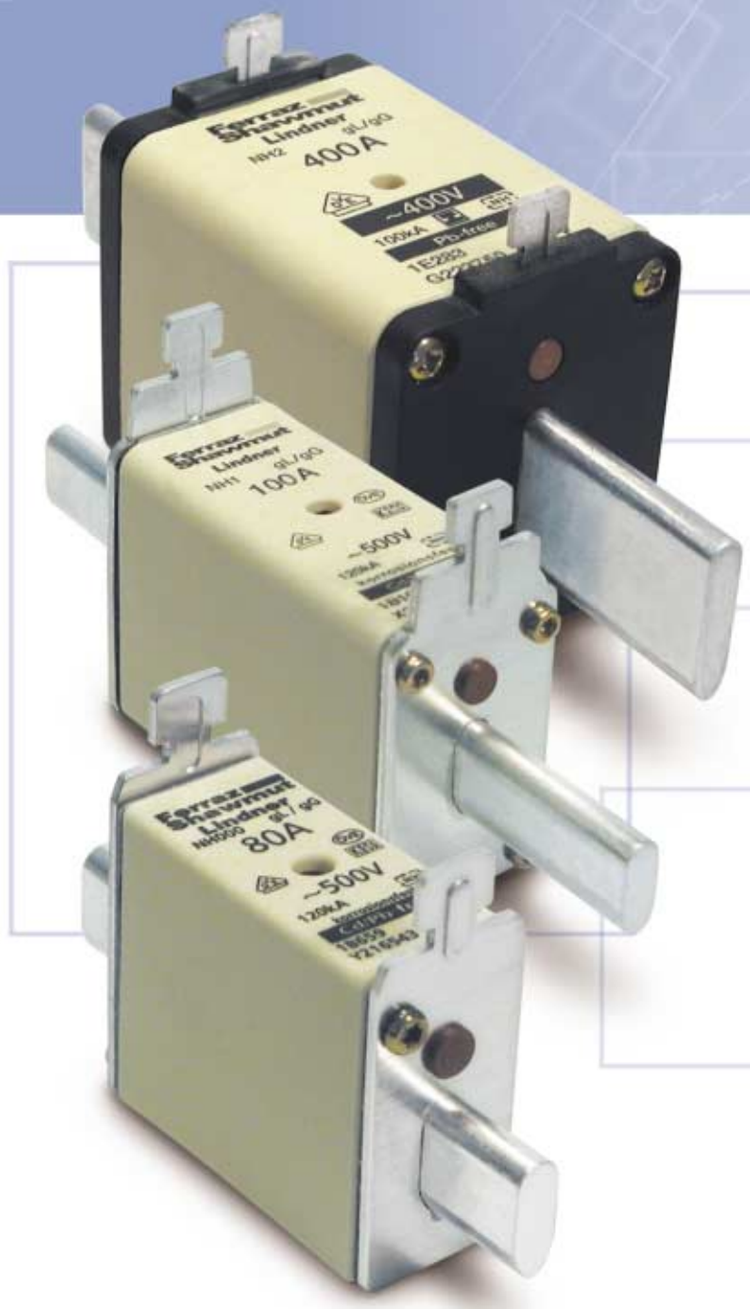
NH-Fuse system
Low voltage



Ferraz Shawmut

GROUPE CARBONE LORRAINE

Utilization Categories

The utilization category is marked by two letters. The first letter indicates the breaking-capacity range, and the second one indicates the object to be protected. Our range of products encompasses, among others, fuse-links according to DIN VDE 0636 for the following utilization categories:

- Full-range breaking capacity for general application
- Partial-range breaking capacity for the protection of motor circuits
- Full-range breaking-capacity for protection of transformers
- Full-range breaking capacity for semiconductor protection
- Partial-range semiconductor protection

Utilization Category gG

The Lindner-branded high-breaking capacity fuse-links of Ferraz Shawmut are marked with the utilization category gG. This indicates the different standards to which our fuses conform.

Utilization Category gL

NH-fuses, according to the old German standard DIN VDE 0636 part 21, (but still valid until 1.6.03).

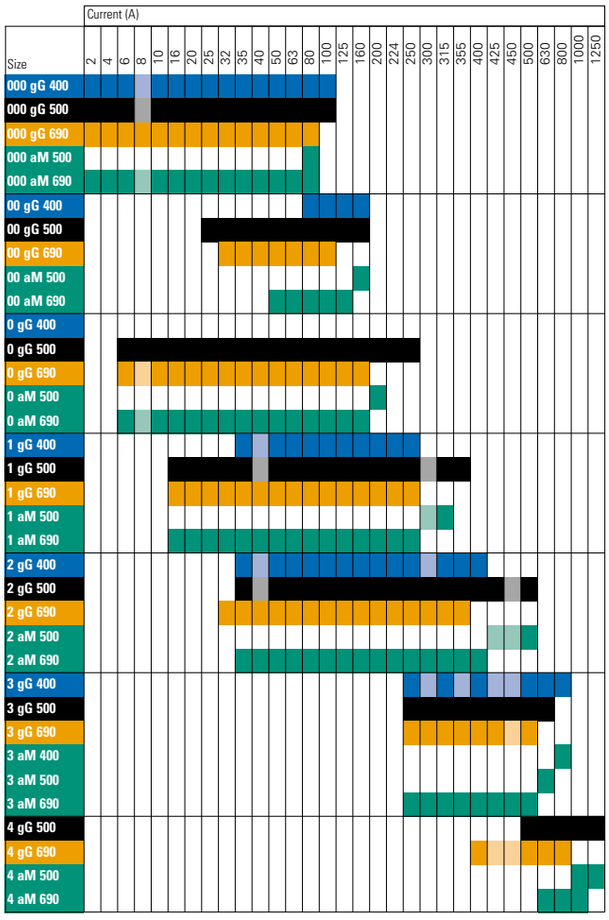
Utilization Category gG

NH-fuses, according to the international standard IEC 60269-2-1 and the new German standard DIN VDE 0636 part 201, NH-fuses, valid since June 1998. This standard originated from an international standard (IEC) and is accepted as a harmonized European document (status: European standard).

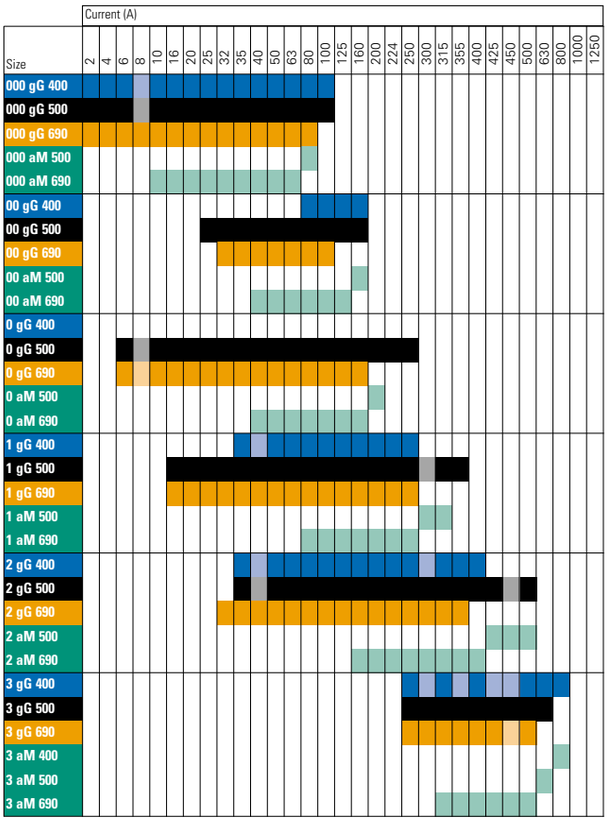
Utilization aM

NH-fuses, complying with the international standard IEC 60269-2 and the German standard DIN VDE 0636 part 20.

NH-fuses



NH-fuses SGL



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NH-FUSE SYSTEM

Ferraz Shawmut

NH-fuses, ~400V gG

with non-isolated gripping lugs, double indicator, contact blades, complying with DIN VDE 0636 Part 201 and IEC 60269-2-1

Pb-free

size	rated current I_N (A)	power dissipation (W)	FS ref.-no.	Lindner ref.-no.	weight kg/pce	pack. unit
000	2	3,3	Z223674	1A613.	0,12	3
000	4	1,35	A223675	1A619.	0,12	3
000	6	1,7	B223676	1A623.	0,12	3
000	10	1,0	C223677	1A631.	0,12	3
000	16	1,8	D223678	1A635.	0,12	9
000	20	2,0	E223679	1A637.	0,12	9
000	25	2,4	F223680	1A639.	0,12	9
000	32	2,6	G223681	1A643.	0,12	9
000	35	3,2	H223682	1A645.	0,12	9
000	40	3,1	J223683	1A647.	0,12	9
000	50	3,5	K223684	1A651.	0,12	9
000	63	4,6	L223685	1A655.	0,12	9
000	80	5,0	M223686	1A659.	0,12	9
000	100	5,5	N223687	1A663.	0,12	9
00	125	8,6	E223702	1A765.	0,18	3
00	160	9,6	F223703	1A769.	0,18	3
1	35	3,9	J223706	1A145.	0,28	3
1	50	4,5	K223707	1A151.	0,28	3
1	63	5,7	L223708	1A155.	0,28	3
1	80	5,5	M223709	1A159.	0,28	3
1	100	7,0	N223710	1A163.	0,28	3
1	125	9,1	P223711	1A165.	0,30	3
1	160	13,0	Q223712	1A169.	0,30	3
1	200	13,1	R223713	1A171.	0,30	3
1	224	15,1	S223714	1A173.	0,30	3
1	250	16,9	T223715	1A175.	0,30	3
2	35	3,9	T227257	1A245.	1,87	3
2	50	4,5	V227258	1A251.	1,87	3
2	63	5,7	W227259	1A255.	1,87	3
2	80	6,1	F223726	1A259.	0,32	3
2	100	7,3	G223727	1A263.	0,32	3
2	125	9,1	H223728	1A265.	0,32	3
2	160	13,0	J223729	1A269.	0,32	3
2	200	13,5	K223730	1A271.	0,32	3
2	224	15,1	L223731	1A273.	0,32	3
2	250	18,0	M223732	1A275.	0,32	3
2	315	19,9	N223733	1A279.	0,40	3
2	355	22,7	P223734	1A281.	0,40	3
2	400	28,0	Q223735	1A283.	0,40	3
3	250	19,9	R223736	1A375.	0,45	1
3	315	22,7	S223737	1A379.	0,45	1
3	400	28,0	T223738	1A383.	0,45	1
3	500	30,8	V223739	1A387.	0,60	1
3	630	43,0	W223740	1A389.	0,60	1

NH-fuses, ~400V gG

with isolated metal gripping lugs (SGL), double indicator, contact blades, complying with DIN VDE 0636 Part 201 and IEC 60269-2-1

Pb-free

size	rated current I_N (A)	power dissipation (W)	FS ref.-no.	Lindner ref.-no.	weight kg/pce	pack. unit
000	2	3,3	P223688	1E613.	0,12	3
000	4	1,35	Q223689	1E619.	0,12	3
000	6	1,7	R223690	1E623.	0,12	3
000	10	1,0	S223691	1E631.	0,12	3
000	16	1,8	T223692	1E635.	0,12	9
000	20	2,0	V223693	1E637.	0,12	9
000	25	2,4	W223694	1E639.	0,12	9
000	32	2,6	X223695	1E643.	0,12	9
000	35	3,2	Y223696	1E645.	0,12	9
000	40	3,1	Z223697	1E647.	0,12	9
000	50	3,5	A223698	1E651.	0,12	9
000	63	4,6	B223699	1E655.	0,12	9
000	80	5,0	C223700	1E659.	0,12	9
000	100	5,5	D223701	1E663.	0,12	9
00	125	8,6	G223704	1E765.	0,18	3
00	160	9,6	H223705	1E769.	0,18	3
1	35	3,9	V223716	1E145.	0,28	3
1	50	4,5	W223717	1E151.	0,28	3
1	63	5,7	X223718	1E155.	0,28	3
1	80	5,5	Y223719	1E159.	0,28	3

1	100	7,0	Z223720	1E163.	0,28	3
1	125	9,1	A223721	1E165.	0,30	3
1	160	13,0	B223722	1E169.	0,30	3
1	200	13,1	C223723	1E171.	0,30	3
1	224	15,1	D223724	1E173.	0,30	3
1	250	16,9	E223725	1E175.	0,30	3
2	35	3,9	L227250	1E245.	2,65	3
2	50	4,5	M227251	1E251.	2,65	3
2	63	5,7	N227252	1E255.	2,65	3
2	80	6,1	X223741	1E259.	0,32	3
2	100	7,3	Y223742	1E263.	0,32	3
2	125	9,1	Z223743	1E265.	0,32	3
2	160	13,0	A223744	1E269.	0,32	3
2	200	13,5	B223745	1E271.	0,32	3
2	224	15,1	C223746	1E273.	0,32	3
2	250	18,0	D223747	1E275.	0,32	3
2	315	19,9	E223748	1E279.	0,40	3
2	355	22,7	F223749	1E281.	0,40	3
2	400	28,0	G223750	1E283.	0,40	3
3	250	19,9	H223751	1E375.	0,45	1
3	315	22,7	J223752	1E379.	0,45	1
3	400	28,0	K223753	1E383.	0,45	1
3	500	30,8	L223754	1E387.	0,60	1
3	630	43,0	M223755	1E389.	0,60	1

NH-fuses, ~500V gG

with non-isolated gripping lugs, double indicator, contact blades, complying with DIN VDE 0636 Part 201 and IEC 60269-2-1

Cd/Pb-free

size	rated current I_N (A)	power dissipation (W)	FS ref.-No.	Lindner ref.-no.	weight kg/pce	pack. unit
000	2	1,9	B211946	1B613.	0,13	3
000	4	1,5	M212462	1B619.	0,13	3
000	6	1,6	D213995	1B623.	0,13	3
000	10	1,1	B219651	1B631.	0,13	3
000	16	1,8	K222097	1B635.	0,13	9
000	20	2,3	A222847	1B637.	0,13	9
000	25	2,4	E201185	1B639.	0,13	9
000	32	3,1	Z211438	1B643.	0,13	9
000	35	3,0	C211947	1B645.	0,13	9
000	40	3,7	N212463	1B647.	0,13	9
000	50	4,1	T212974	1B651.	0,13	9
000	63	5,4	E213996	1B655.	0,13	9
000	80	6,5	Y216543	1B659.	0,13	9
000	100	7,5	B219122	1B663.	0,13	9
00	125	10,0	R201863	1B765.	0,20	3
00	160	12,3	P211084	1B769.	0,20	3
0	6	1,6	H213148	1B023.	0,27	3
0	10	1,1	G214159	1B031.	0,27	3
0	16	1,8	Q215179	1B035.	0,27	3
0	20	2,3	R215686	1B037.	0,27	3
0	25	2,4	Y216198	1B039.	0,27	3
0	32	3,1	W216702	1B043.	0,27	3
0	35	3,0	J217220	1B045.	0,27	3
0	40	3,7	P217731	1B047.	0,27	3
0	50	4,1	Z218246	1B051.	0,27	3
0	63	6,6	N218765	1B055.	0,27	3
0	80	8,0	C219284	1B059.	0,27	3
0	100	9,4	D219814	1B063.	0,27	3
0	125	11,8	P222492	1B065.	0,27	3
0	160	14,6	F223013	1B069.	0,27	3
0	200	18,1	C229611	1B071.	0,27	3
0	224	19,2	D229612	1B073.	0,27	3
0	250	20,3	E229613	1B075.	0,27	3
1	16	1,8	M200801	1B135.	0,28	3
1	20	2,3	C201344	1B137.	0,28	3
1	25	2,4	N201860	1B139.	0,28	3
1	32	3,1	L211081	1B143.	0,28	3
1	35	3,0	A211600	1B145.	0,28	3
1	40	3,7	Y212633	1B147.	0,28	3
1	50	4,1	B213648	1B151.	0,28	3
1	63	6,6	L214669	1B155.	0,28	3
1	80	8,0	S215687	1B159.	0,28	3
1	100	9,4	X216703	1B163.	0,28	3
1	125	11,8	Q217732	1B165.	0,30	3
1	160	14,6	A218247	1B169.	0,30	3
1	200	18,0	P218766	1B171.	0,30	3

1	224	19,0	D219285	1B173.	0,30	3
1	250	20,0	E219815	1B175.	0,30	3
1	315	20,5	Q228519	1B179.	0,42	3
1	355	23,7	R228520	1B181.	0,42	3
2	25	2,4	N200802	1B239.	0,42	3
2	32	3,1	D201345	1B243.	0,42	3
2	35	3,0	P201861	1B245.	0,42	3
2	40	3,7	M211082	1B247.	0,42	3
2	50	4,1	B211601	1B251.	0,42	3
2	63	6,8	Z212634	1B255.	0,42	3
2	80	8,3	C213649	1B259.	0,42	3
2	100	10,7	M214670	1B263.	0,42	3
2	125	12,2	T215688	1B265.	0,42	3
2	160	15,0	Y216704	1B269.	0,42	3
2	200	18,5	R217733	1B271.	0,42	3
2	224	19,2	Q218767	1B273.	0,42	3
2	250	20,6	R222494	1B275.	0,42	3
2	300	21,0	P200803	1B277.	0,64	3
2	315	25,0	E201346	1B279.	0,64	3
2	355	31,5	Q201862	1B281.	0,64	3
2	400	28,5	N211083	1B283.	0,64	3
2	425	29,2	S228521	1B285.	0,64	3
2	500	35,6	T228522	1B287.	0,64	3
3	250	21,1	C211602	1B375.	0,65	1
3	300	20,0	A212635	1B377.	0,65	1
3	315	25,0	L213151	1B379.	0,65	1
3	355	32,0	K214162	1B381.	0,65	1
3	400	34,0	T215182	1B383.	1,05	1
3	425	34,0	B216201	1B385.	1,05	1
3	450	38,0	Z216705	1B386.	1,05	1
3	500	43,0	M217223	1B387.	1,05	1
3	630	43,1	S217734	1B389.	1,05	1
3	800	53,2	V228523	1B391.	1,05	1
with screw contact						
4	400	31,0	*) A216039	8004.4007	2,00	1
4	500	35,0	*) X216542	8004.5007	2,00	1
4	630	46,6	*) W217576	8004.6307	2,00	1
4	800	70,0	*) E218090	8004.8007	2,00	1
4	1000	83,3	*) H201694	8004.1007	2,00	1
4	1250	110,0	*) C213994	8004.1257	2,00	1
contact blades for NH-bottom size 4a with swivel unit						
4a	500	35,0	*) D201184	8014.5007	1,95	1
4a	630	46,6	*) T205752	8014.6307	1,95	1
4a	800	70,0	*) Y211437	8014.8007	1,95	1
4a	1000	83,3	*) A219650	8014.1007	1,95	1
4a	1250	110,0	*) J200637	8014.1257	1,95	1

*) with indicator on top

NH-fuses, ~500V gG

with isolated metal gripping lugs (SGL), double indicator, contact blades, complying with DIN VDE 0636 Part 201 and IEC 60269-2-1

Cd/Pb-free

size	rated current I_N (A)	power dissipation (W)	FS ref.-no.	Lindner ref.-no.	weight kg/pce	pack. unit
000	2	1,9	C219652	1F613.	0,14	3
000	4	1,5	N205770	1F619.	0,14	3
000	6	1,6	P212464	1F623.	0,14	3
000	10	1,1	V215528	1F631.	0,14	3
000	16	1,8	F213997	1F635.	0,14	9
000	20	2,3	F218091	1F637.	0,14	9
000	25	2,4	K200638	1F639.	0,14	9
000	32	3,1	D213489	1F643.	0,14	9
000	35	3,0	G201187	1F645.	0,14	9
000	40	3,7	D219653	1F647.	0,14	9
000	50	4,1	C222849	1F651.	0,14	9
000	63	5,4	R212466	1F655.	0,14	9
000	80	6,5	N215016	1F659.	0,14	9
000	100	7,5	J201189	1F663.	0,14	9
00	125	10,0	V200808	1F765.	0,20	3
00	160	12,3	W201867	1F769.	0,20	3
0	6	1,6	B212636	1F023.	0,26	3
0	10	1,1	M213152	1F031.	0,26	3
0	16	1,8	E213651	1F035.	0,26	3
0	20	2,3	L214163	1F037.	0,26	3
0	25	2,4	P214672	1F039.	0,26	3
0	32	3,1	V215183	1F043.	0,26	3
0	35	3,0	W215690	1F045.	0,26	3
0	40	3,7	C216202	1F047.	0,26	3

0	50	4,1	A216706	1F051.	0,26	3
0	63	6,6	N217224	1F055.	0,26	3
0	80	8,0	T217735	1F059.	0,26	3
0	100	9,4	D218250	1F063.	0,26	3
0	125	11,8	S218769	1F065.	0,26	3
0	160	14,6	F219287	1F069.	0,26	3
1	16	1,8	H219818	1F135.	0,29	3
1	20	2,3	T222496	1F137.	0,29	3
1	25	2,4	K223017	1F139.	0,29	3
1	32	3,1	R200805	1F143.	0,29	3
1	35	3,0	G201348	1F145.	0,29	3
1	40	3,7	Q211085	1F147.	0,29	3
1	50	4,1	L212116	1F151.	0,29	3
1	63	6,6	N213153	1F155.	0,29	3
1	80	8,0	M214164	1F159.	0,29	3
1	100	9,4	W215184	1F163.	0,29	3
1	125	11,8	D216203	1F165.	0,42	3
1	160	14,6	B216707	1F169.	0,42	3
1	200	18,0	P217225	1F171.	0,42	3
1	224	19,0	V217736	1F173.	0,42	3
1	250	20,0	E218251	1F175.	0,42	3
2	25	2,4	J219819	1F239.	0,42	3
2	32	3,1	V222497	1F243.	0,42	3
2	35	3,0	L223018	1F245.	0,42	3
2	40	3,7	S200806	1F247.	0,42	3
2	50	4,1	H201349	1F251.	0,42	3
2	63	6,8	T201865	1F255.	0,42	3
2	80	8,3	F211605	1F259.	0,42	3
2	100	10,7	P213154	1F263.	0,42	3
2	125	12,2	N214165	1F265.	0,42	3
2	160	15,0	X215185	1F269.	0,42	3
2	200	18,5	E216204	1F271.	0,42	3
2	224	19,2	Q217226	1F273.	0,42	3
2	250	20,6	F218252	1F275.	0,42	3
2	300	21,0	H219289	1F277.	0,64	3
2	315	25,0	K219820	1F279.	0,64	3
2	355	31,5	M223019	1F281.	0,64	3
2	400	28,5	T200807	1F283.	0,64	3
3	250	21,1	J201350	1F375.	0,65	1
3	300	20,0	S211087	1F377.	0,65	1
3	315	25,0	G211606	1F379.	0,65	1
3	355	32,0	E212639	1F381.	0,65	1
3	400	34,0	H213654	1F383.	1,05	1
3	425	34,0	S214675	1F385.	1,05	1
3	450	38,0	Z215693	1F386.	1,05	1
3	500	43,0	F216205	1F387.	1,05	1
3	630	43,1	D216709	1F389.	1,05	1

NH-fuses, ~690V gG

with non-isolated gripping lugs, double indicator, contact blades, complying with DIN VDE 0636 Part 201 and IEC 60269-2-1

Cd/Pb-free

size	rated current I_N (A)	power dissipation (W)	FS ref.-no.	Lindner ref.-no.	weight kg/pce	pack. unit
000	2	1,9	E228440	1C613.	0,13	3
000	4	1,5	F228441	1C619.	0,13	3
000	6	1,6	G228442	1C623.	0,13	3
000	10	1,1	J228444	1C631.	0,13	3
000	16	1,8	K228445	1C635.	0,13	3
000	20	2,3	L228446	1C637.	0,13	3
000	25	2,4	M228447	1C639.	0,13	3
000	32	3,1	N228448	1C643.	0,13	3
000	35	3,0	P228449	1C645.	0,13	3
000	40	3,7	Q228450	1C647.	0,13	3
000	50	4,1	R228451	1C651.	0,13	3
000	63	5,4	S228452	1C655.	0,13	3
000	80	6,5	T228453	1C659.	0,13	3
00	32	3,1	V228454	1C743.	0,20	3
00	35	3,0	W228455	1C745.	0,20	3
00	40	3,7	X228456	1C747.	0,20	3
00	50	4,1	Y228457	1C751.	0,20	3
00	63	5,6	Z228458	1C755.	0,20	3
00	80	6,8	A228459	1C759.	0,20	3
00	100	7,5	B228460	1C763.	0,20	3
00	125	10,0	C228461	1C765.	0,20	3
0	6	1,6	D228462	1C023.	0,27	3
0	10	1,1	E228463	1C031.	0,27	3
0	16	1,8	F228464	1C035.	0,27	3

0	20	2,3	G228465	1C037.	0,27	3
0	25	2,4	H228466	1C039.	0,27	3
0	32	3,1	J228467	1C043.	0,27	3
0	35	3,0	K228468	1C045.	0,27	3
0	40	3,7	L228469	1C047.	0,27	3
0	50	4,1	M228470	1C051.	0,27	3
0	63	6,6	N228471	1C055.	0,27	3
0	80	8,0	P228472	1C059.	0,27	3
0	100	9,4	Q228473	1C063.	0,27	3
0	125	11,8	R228474	1C065.	0,27	3
0	160	14,6	S228475	1C069.	0,27	3
1	16	1,8	T228476	1C135.	0,26	3
1	20	2,3	V228477	1C137.	0,26	3
1	25	2,4	W228478	1C139.	0,26	3
1	32	3,1	X228479	1C143.	0,26	3
1	35	3,0	Y228480	1C145.	0,26	3
1	40	3,7	Z228481	1C147.	0,26	3
1	50	4,1	A228482	1C151.	0,26	3
1	63	6,6	B228483	1C155.	0,26	3
1	80	8,0	C228484	1C159.	0,26	3
1	100	9,4	D228485	1C163.	0,26	3
1	125	11,8	E228486	1C165.	0,42	3
1	160	14,6	F228487	1C169.	0,42	3
1	200	18,0	G228488	1C171.	0,42	3
1	224	19,0	V233261	1C173.	0,42	3
1	250	20,0	W233262	1C175.	0,42	3
2	32	3,1	H228489	1C243.	0,42	3
2	35	3,0	J228490	1C245.	0,42	3
2	40	3,7	K228491	1C247.	0,42	3
2	50	4,1	L228492	1C251.	0,42	3
2	63	6,8	M228493	1C255.	0,42	3
2	80	8,3	N228494	1C259.	0,42	3
2	100	10,7	P228495	1C263.	0,42	3
2	125	12,2	Q228496	1C265.	0,42	3
2	160	15,0	R228497	1C269.	0,42	3
2	200	18,5	S228498	1C271.	0,42	3
2	224	19,2	T228499	1C273.	0,42	3
2	250	20,6	V228500	1C275.	0,42	3
2	300	21,0	W228501	1C277.	0,64	3
2	315	25,0	X228502	1C279.	0,65	3
2	355	31,5	Y228503	1C281.	0,65	3
3	250	21,1	Z228504	1C375.	0,65	1
3	300	22,6	A228505	1C377.	0,65	1
3	315	25,0	B228506	1C379.	0,65	1
3	355	32,0	C228507	1C381.	0,65	1
3	400	34,0	D228508	1C383.	1,05	1
3	425	34,0	E228509	1C385.	1,05	1
3	500	43,0	F228510	1C387.	1,05	1
with screw contact						
4	400	31,0	*) N214004	8004.400765	2,00	1
4	500	35,0	*) Y215025	8004.500765	2,00	1
4	630	46,6	*) E215537	8004.630765	2,00	1
4	800	70,0	*) K216554	8004.800765	2,00	1
contact blades for NH-bottom size 4a with swivel unit						
4a	400	31,0	*) W217070	8014.400765	1,95	1
4a	500	35,0	*) H217587	8014.500765	1,95	1
4a	630	46,6	*) W222107	8014.630765	1,95	1
4a	800	70,0	*) M222858	8014.800765	1,95	1

*) with indicator on top

NH-fuses, ~690V gG

with isolated metal gripping lugs (SGL), double indicator, contact blades, complying with DIN VDE 0636 Part 201 and IEC 60269-2-1

Cd/Pb-free

size	rated current I_N (A)	power dissipation (W)	FS ref.-no.	Lindner ref.-no.	weight kg/pce	pack. unit
000	2	1,9	D229704	1G613.	0,14	3
000	4	1,5	E229705	1G619.	0,14	3
000	6	1,6	F229706	1G623.	0,14	3
000	10	1,1	H229708	1G631.	0,14	3
000	16	1,8	J229709	1G635.	0,14	3
000	20	2,3	K229710	1G637.	0,14	3
000	25	2,4	L229711	1G639.	0,14	3
000	32	3,1	M229712	1G643.	0,14	3
000	35	3,0	N229713	1G645.	0,14	3
000	40	3,7	P229714	1G647.	0,14	3
000	50	4,1	Q229715	1G651.	0,14	3
000	63	5,4	R229716	1G655.	0,14	3
000	80	6,5	S229717	1G659.	0,14	3
00	32	3,1	T229718	1G743.	0,20	3
00	35	3,0	V229719	1G745.	0,20	3
00	40	3,7	W229720	1G747.	0,20	3
00	50	4,1	X229721	1G751.	0,20	3
00	63	5,6	Y229722	1G755.	0,20	3
00	80	6,8	Z229723	1G759.	0,20	3
00	100	7,5	A229724	1G763.	0,20	3
00	125	10,0	B229725	1G765.	0,20	3
0	6	1,6	C229726	1G023.	0,26	3
0	10	1,1	D229727	1G031.	0,26	3
0	16	1,8	E229728	1G035.	0,26	3
0	20	2,3	F229729	1G037.	0,26	3
0	25	2,4	G229730	1G039.	0,26	3
0	32	3,1	H229731	1G043.	0,26	3
0	35	3,0	J229732	1G045.	0,26	3
0	40	3,7	K229733	1G047.	0,26	3
0	50	4,1	L229734	1G051.	0,26	3
0	63	6,6	M229735	1G055.	0,26	3
0	80	8,0	N229736	1G059.	0,26	3
0	100	9,4	P229737	1G063.	0,26	3
0	125	11,8	Q229738	1G065.	0,26	3
0	160	14,6	R229739	1G069.	0,26	3
1	16	1,8	S229740	1G135.	0,29	1
1	20	2,3	T229741	1G137.	0,29	1
1	25	2,4	V229742	1G139.	0,29	1
1	32	3,1	W229743	1G143.	0,29	1
1	35	3,0	X229744	1G145.	0,29	1
1	40	3,7	Y229745	1G147.	0,29	1
1	50	4,1	Z229746	1G151.	0,29	1
1	63	6,6	A229747	1G155.	0,29	1
1	80	8,0	B229748	1G159.	0,29	1
1	100	9,4	C229749	1G163.	0,29	1
1	125	11,8	D229750	1G165.	0,42	1
1	160	14,6	E229751	1G169.	0,42	1
1	200	18,0	F229752	1G171.	0,42	1
1	224	19,0	G229753	1G173.	0,42	1
2	32	3,1	J229755	1G243.	0,43	1
2	35	3,0	K229756	1G245.	0,43	1
2	40	3,7	L229757	1G247.	0,43	1
2	50	4,1	M229758	1G251.	0,43	1
2	63	6,8	N229759	1G255.	0,43	1
2	80	8,3	P229760	1G259.	0,43	1
2	100	10,7	Q229761	1G263.	0,43	1
2	125	12,2	R229762	1G265.	0,43	1
2	160	15,0	S229763	1G269.	0,43	1
2	200	18,5	T229764	1G271.	0,43	1
2	224	19,2	V229765	1G273.	0,43	1
2	250	20,6	W229766	1G275.	0,43	1
2	300	21,0	X229767	1G277.	0,43	1
2	315	25,0	Y229768	1G279.	0,65	1
2	355	31,5	Z229769	1G281.	0,65	1
3	250	21,1	A229770	1G375.	0,65	1
3	300	22,6	B229771	1G377.	1,01	1
3	315	25,0	C229772	1G379.	1,01	1
3	355	32,0	D229773	1G381.	1,01	1
3	400	34,0	E229774	1G383.	1,01	1
3	425	34,0	F229775	1G385.	1,01	1
3	500	43,0	G229776	1G387.	1,01	1

NH-fuses, ~500V aM

with non-isolated gripping lugs, double indicator, contact blades, complying with DIN VDE 0636 Part 201

Cd/Pb-free

size	rated current I_N (A)	power dissipation (W)	FS ref.-no.	Lindner ref.-no.	weight kg/pce	pack. unit
000	2	0,1	K232493	2B613.	0,13	3
000	4	0,2	L232494	2B619.	0,13	3
000	6	0,3	M232495	2B623.	0,13	3
000	10	0,5	N232496	2B631.	0,13	3
000	16	0,7	P232497	2B635.	0,13	3
000	20	0,9	Q232498	2B637.	0,13	3
000	25	1,2	R232499	2B639.	0,13	3
000	32	1,5	S232500	2B643.	0,13	3
000	35	1,6	T232501	2B645.	0,13	3
000	40	1,8	V232502	2B647.	0,13	3
000	50	2,3	W232503	2B651.	0,13	3
000	63	2,9	X232504	2B655.	0,13	3
000	80	3,6	C227863	2B659.	0,13	3
00	100	5,8	Y232505	2B763.	0,20	3
00	125	6,4	Z232506	2B765.	0,20	3
00	160	7,9	J227869	2B769.	0,20	3
0	100	6,0	A232507	2B063.	0,26	3
0	125	7,9	B232508	2B065.	0,26	3
0	160	10,5	C232509	2B069.	0,26	3
0	200	11,8	A227884	2B071.	0,26	3
1	100	5,8	D232510	2B163.	0,42	3
1	125	7,5	E232511	2B165.	0,42	3
1	160	10,4	F232512	2B169.	0,42	3
1	200	14,2	G232513	2B171.	0,42	3
1	224	15,8	H232514	2B173.	0,42	3
1	250	17,5	J232515	2B175.	0,42	3
1	315	22,1	K227962	2B179.	0,42	3
2	250	16,8	K232516	2B275.	0,64	3
2	315	23,1	L232517	2B279.	0,64	3
2	355	26,4	M232518	2B281.	0,64	3
2	400	29,7	N232519	2B283.	0,64	3
2	500	34,4	C227978	2B287.	0,64	3
3	315	21,0	P232520	2B379.	1,05	1
3	355	23,3	Q232521	2B381.	1,05	1
3	400	29,1	R232522	2B383.	1,05	1
3	425	29,1	S232523	2B385.	1,05	1
3	450	34,0	T232524	2B386.	1,05	1
3	500	42,0	V232525	2B387.	1,05	1
3	630	42,0	M227987	2B389.	1,05	1
with screw contact						
4	400	26,0	*) P233555	8004.400505	2,18	1
4	500	38,0	*) Q233556	8004.500505	2,18	1
4	630	50,0	*) E222115	8004.630505	2,18	1
4	800	65,0	*) V222865	8004.800505	2,18	1
4	1000	80,0	*) S219137	8004.100505	2,18	1
4	1250	110,0	*) V219668	8004.125505	2,21	1
contact blades for NH-bottom size 4a with swivel unit						
4a	500	38,0	*) R233557	8014.500505	2,00	1
4a	630	50,0	*) S233558	8014.630505	2,00	1
4a	800	65,0	*) T233559	8014.800505	2,00	1
4a	1000	80,0	*) V233560	8014.100505	2,00	1
4a	1250	110,0	*) W233561	8014.125505	2,00	1

*) with indicator on top

NH-fuses, ~690V aM

with non-isolated gripping lugs, double indicator, contact blades, complying with DIN VDE 0636 Part 201

Cd/Pb-free

size	rated current I_N (A)	power dissipation (W)	FS ref.-no.	Lindner ref.-no.	weight kg/pce	pack. unit
000	2	0,1	P227851	2C613.	0,13	3
000	4	0,2	Q227852	2C619.	0,13	3
000	6	0,3	R227853	2C623.	0,13	3
000	10	0,5	S227854	2C631.	0,13	3
000	16	0,7	T227855	2C635.	0,13	3
000	20	0,9	V227856	2C637.	0,13	3
000	25	1,2	W227857	2C639.	0,13	3
000	32	1,5	X227858	2C643.	0,13	3
000	35	1,6	Y227859	2C645.	0,13	3
000	40	1,8	Z227860	2C647.	0,13	3
000	50	2,3	A227861	2C651.	0,13	3
000	63	2,9	B227862	2C655.	0,13	3
00	50	2,3	D227864	2C751.	0,20	3
00	63	2,9	E227865	2C755.	0,20	3
00	80	3,6	F227866	2C759.	0,20	3
00	100	5,2	G227867	2C763.	0,20	3
00	125	6,4	H227868	2C765.	0,20	3
0	6	0,3	K227870	2C023.	0,26	3
0	10	0,5	L227871	2C031.	0,26	3
0	16	0,8	M227872	2C035.	0,26	3
0	20	1,0	N227873	2C037.	0,26	3
0	25	1,3	P227874	2C039.	0,26	3
0	32	1,6	Q227875	2C043.	0,26	3
0	35	1,7	R227876	2C045.	0,26	3
0	40	2,0	S227877	2C047.	0,26	3
0	50	2,8	T227878	2C051.	0,26	3
0	63	3,4	V227879	2C055.	0,26	3
0	80	4,9	W227880	2C059.	0,26	3
0	100	6,0	X227881	2C063.	0,26	3
0	125	7,9	Y227882	2C065.	0,26	3
0	160	10,5	Z227883	2C069.	0,26	3
1	16	1,0	B227885	2C135.	0,43	3
1	20	1,2	C227886	2C137.	0,43	3
1	25	1,4	D227887	2C139.	0,43	3
1	32	1,9	E227888	2C143.	0,43	3
1	35	2,0	F227889	2C145.	0,43	3
1	40	2,3	G227890	2C147.	0,43	3
1	50	2,9	H227891	2C151.	0,43	3
1	63	3,6	J227892	2C155.	0,43	3
1	80	4,6	K227893	2C159.	0,43	3
1	100	5,8	L227894	2C163.	0,43	3
1	125	7,5	M227895	2C165.	0,43	3
1	160	10,4	N227896	2C169.	0,43	3
1	200	14,2	P227897	2C171.	0,43	3
1	224	15,8	Q227898	2C173.	0,43	3
1	250	17,5	R227899	2C175.	0,43	3
2	35	1,8	L227963	2C245.	0,64	3
2	40	2,1	M227964	2C247.	0,64	3
2	50	2,7	N227965	2C251.	0,64	3
2	63	3,4	P227966	2C255.	0,64	3
2	80	4,4	Q227967	2C259.	0,64	3
2	100	5,5	R227968	2C263.	0,64	3
2	125	6,4	S227969	2C265.	0,64	3
2	160	9,3	T227970	2C269.	0,64	3
2	200	11,3	V227971	2C271.	0,64	3
2	224	12,2	W227972	2C273.	0,64	3
2	250	16,8	X227973	2C275.	0,64	3
2	300	21,0	Y227974	2C277.	0,64	3
2	315	23,1	Z227975	2C279.	0,64	3
2	355	26,4	A227976	2C281.	0,64	3
2	400	29,7	B227977	2C283.	0,64	3
3	250	14,6	D227979	2C375.	1,05	1
3	300	21,0	E227980	2C377.	1,05	1
3	315	21,0	F227981	2C379.	1,05	1
3	355	23,3	G227982	2C381.	1,05	1
3	400	29,1	H227983	2C383.	1,05	1
3	425	29,1	J227984	2C385.	1,05	1
3	450	34,0	K227985	2C386.	1,05	1
3	500	42,0	L227986	2C387.	1,05	1
with screw contact						
4	400	26,0	*) Q227990	8004.40056	2,00	1
4	500	38,0	*) R227991	8004.50056	2,00	1

4	630	50,0	*) S227992	8004.63056	1,75	1
4	800	65,0	*) T227993	8004.80056	1,75	1
4	1000	80,0	*) V227994	8004.10056	2,00	1
contact blades for NH-bottom size 4a with swivel unit						
4a	500	38,0	*) X227996	8014.50056	1,95	1
4a	630	50,0	*) Y227997	8014.63056	1,95	1
4a	800	65,0	*) A227999	8014.80056	1,95	1
4a	1000	80,0	*) B228000	8014.10056	1,95	1

*) with indicator on top

NH-fuses, 400/500V gTr

with non-isolated gripping lugs, double indicator, contact blades, complying with DIN VDE 0636 Part 22, DIN VDE 0636 Part 201

size	voltage	transformer capacity kVA)	rated current I_N (A)	power dissipation (W)	FS ref.-no.	Lindner ref.-no.	weight in kg/pce	pack. unit
2	500	50,0			H232813	5B251.	0,37	1
2	500	75,0			G232812	5B257.	0,37	1
2	500	100,0	145	12,0	B232807	5B263.	0,37	1
2	500	125,0	181	15,0	C232808	5B265.	0,37	1
2	500	160,0	231	18,4	D232809	5B269.	0,37	1
2	500	200,0	289	22,0	E232810	5B271.	0,37	1
2	500	250,0	361	27,0	F232811	5B275.	0,37	1
3	500	250,0	361	26,0	J232814	5B375.	0,61	1
3	500	315,0	455	34,0	K232815	5B379.	0,61	1
3	500	400,0	578	39,0	L232816	5B383.	0,61	1
3	400	500,0			M232817	5A387.	0,81	1
3	400	630,0			N232818	5A389.	0,81	1
contact blades for NH-bottom size 4a with swivel unit								
4a	400	100,0	145	11,4	*) T212997	8008.100005	2,09	1
4a	400	125,0	181	14,5	*) Y213507	8008.125005	2,17	1
4a	400	160,0	231	17,8	*) Z214014	8008.160005	1,95	1
4a	400	200,0	289	20,6	*) C214523	8008.200005	1,95	1
4a	400	250,0	361	25,7	*) F215032	8008.250005	2,13	1
4a	400	315,0	455	33,2	*) M215544	8008.315005	1,95	1
4a	400	400,0	578	38,1	*) S216055	8008.400005	1,95	1
4a	400	500,0	723	53,2	*) V216563	8008.500005	1,95	1
4a	400	630,0	910	68,7	*) E217078	8008.630005	1,95	1
4a	400	800,0	1155	90,4	*) R217595	8008.800005	2,10	1

*) with indicator on top

Microswitch indication system for NH-fuses size 000 to 3

with non-isolated gripping lugs

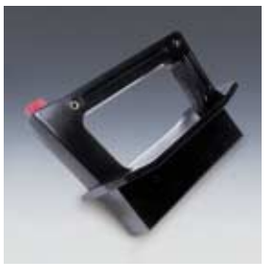
FS ref.-no.	designation	weight g/piece	pack. unit
2,8mm clips, automatically resettable			
G210157	MS 4L 2-5 B2 + PRES	26	3
6,3mm clips, automatically resettable			
F210156	MS 4L 2-5 B6 + PRES	30	3

NH disconnecting knives

size	rated current	version	FS ref.-no.	Lindner ref.-no.	weight g/piece	pack. unit
with isolated gripping lugs						
00	160		W216058	8009.00008	65	10
0	160		J217082	8010.00008	110	5
1	250		Y218107	8011.00008	170	5
2	400		E200656	8012.00008	240	5
3	630		J201718	8013.00008	290	5
with non-isolated gripping lugs						
00	160		Y211506	8009.	70	15
0	160		D212017	8010.	120	15
1	250		V212538	8011.	150	9
2	400		F213054	8012.	220	6
3	630		B213556	8013.	280	6
4	1250	for switch disconnectors	E211972	8014.	680	3
4a	1250	for screw mounting	A214061	8015.	600	1

NH pulling handle

to DIN VDE 0636 part 201
VDE 6080/4



size	version		FS ref.-no.	Lindner ref.-no.	weight g/piece	pack. unit
00 to 3	with arm cuff	*)	P215592	8024.	270	1
00 to 3	without arm cuff	*)	X216105	8022.	450	5
arm cuff for standard NH pulling handles						
			T218149	8029.	140	1

*) size 4 possible

NH barrier

for the use of repair work

size	FS ref.-no.	Lindner ref.-no.	weight g/piece	pack. unit
00	H214574	8016.	25	5
1-3	P215086	8017.	75	3

Protective helmet

to DIN 4840
with belt, without protective shield

version	FS ref.-no.	Lindner ref.-no.	weight g/piece	pack. unit
protective helmet for electricians	T216608	8025.	270	1
protective shield with glare protection	F217125	8027.	10	1

Fuse monitor

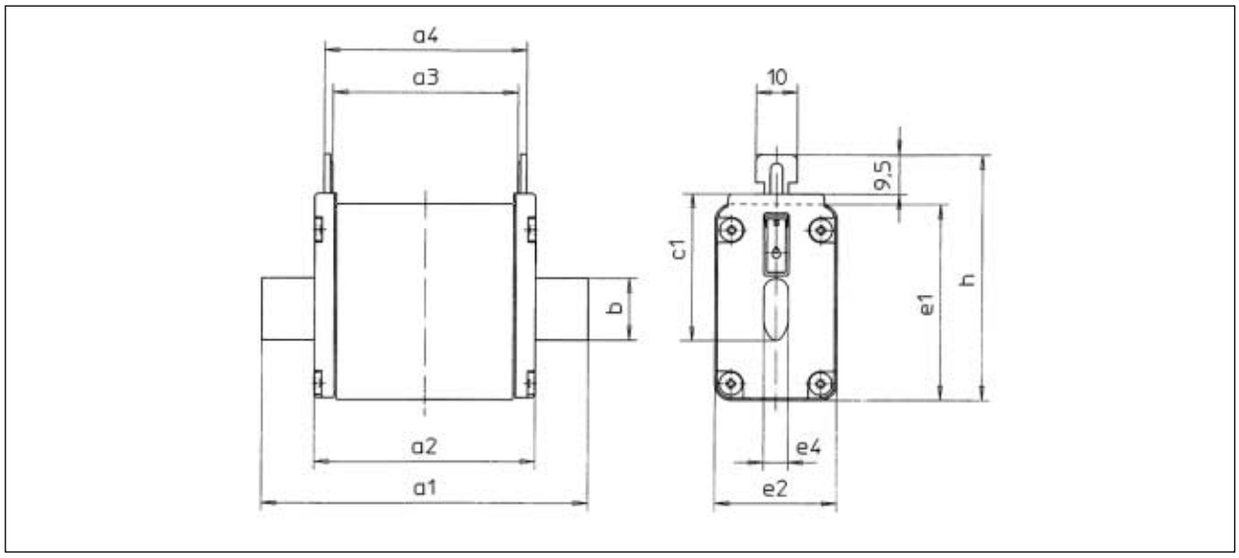
for three-phase monitoring of fuses

rated current in A	rated voltage in V	conductor cross-section in mm² max.	FS ref.-no.	Lindner ref.-no.	weight g/piece	pack. unit
signal contact: 1 change-over						
4	400	2 x 2,5	H217656	3924.04632	130	1

Fuse monitor

without outside power supply, only 6 included cables to be connected on the bases or switches

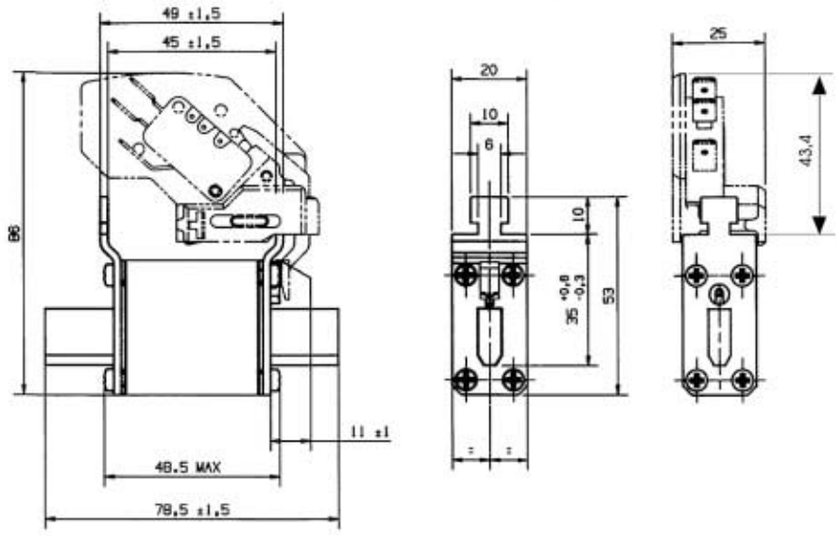
rated current in A	rated voltage in V	max. conductor cross section (mm²)	FS ref.-no.	weight g/piece	pack. unit
2,5	100-260	2,5	N229276	165	1
2,5	380-690	2,5	P229277	165	1



size	rated current IN (A)	a1	a2	a3	a4	b	c1	e1	e2	e4	h
Standard 400V and 500V gG with non-isolated gripping lugs											
size 000	2 – 100A	79	52	45,5	49,5	15	35	40,5	20,8	6	52,5
size 00	125/160A	79	52,8	45	50	15	35	47,5	29,5	6	59,5
size 0	2 – 160A (500V)	125	66,8	61	66	15	35	47,5	29,5	6	59,5
size 1	16 – 100A (500V), 16 – 125A (400V)	135	70,8	63	68	15	40	47,5	29,5	6	64,5
size 1	125 – 355A (500V),160 – 250A (400V)	135	70,8	63	68	20	40	52,5	39,5	6	64,5
size 2	16 – 250A	150	72,3	63	68	20	48	52,5	39,5	6	72,5
size 2	300 – 500A	150	72,3	63	68	26	48	60	51	6	72
size 3	250 – 400A	150	72,3	63	68	26	60	60	51	6	83,5
size 3	425 – 800A	150	72,3	63	68	33	60	74	70	6	86
size 4	400 – 1250A	200	85	64	68	33	85	104	89	8	97
size 4a	500 – 1250A	200	86	90	68	33	85	104	89	8	97
Standard 400V and 500V gG (SGL) with isolated gripping lugs											
size 000	2 – 100A	78	53,4	45,7	49,7	15	35	40,5	20,8	6	52,5
size 00	125/160A	79	53,5	44,8	49	15	35	47,5	29,5	6	59,5
size 0	2 – 160A (500V)	125	67,5	62,5	66,7	15	35	47,5	29,5	6	59,5
size 1	16 – 100A (500V), 16 – 125A (400V)	135	71,5	62,8	67	15	40	47,5	29,5	6	64,5
size 1	125 – 250A (500V), 160 – 250A (400V)	135	73,4	63	67,2	20	40	52,5	39,5	6	64,5
size 2	16 – 250A	150	73,4	63	67,2	20	48	52,5	39,5	6	72,5

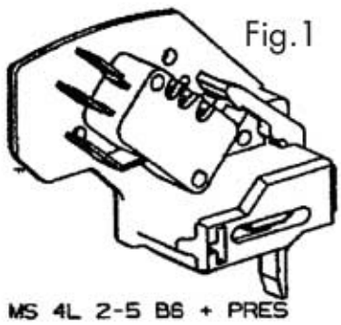
size	rated current I_N (A)	a1	a2	a3	a4	b	c1	e1	e2	e4	h
size 2	300 – 400A	150	73,4	63	67,2	26	48	60	51	6	72
size 3	250 – 400A	150	73,4	63	68	26	60	60	51	6	83,5
size 3	425 – 630A	150	73,4	63	68	33	60	74	70	6	86
NH 690V gG with non-isolated gripping lugs											
size 000	2 – 35A	79	53,8	45	49	15	35,8	40	20	6	47,8
size 00	40 – 100A	79	53,8	45	49	15	35,8	48	30	6	47,8
size 1	16 – 160A	135	75	64	68	20	40	44	30	6	52
size 1	200 – 250A	135	75	64	68	20	40	47	39	6	52
size 2	35 – 100A	150	75	64	68	626	48	44	30	6	60
size 2	125 – 315A	150	75	64	68	26	60	47	39	6	72
size 3	250 – 300A	150	75	64	68	26	60	47	39	6	72
size 3	315 – 425A	150	75	64	68	33	60	58	51	6	72
size 3	500A	150	75	64	68	33	70	64	64	6	72
size 4	400 – 800A	200	85	64	68	33	85	104	89	6	97
size 4a	400 – 800A	200	85	86	90	33	85	104	89	6	97
NH 690V gG (SGL) with isolated gripping lugs											
size 000	2 – 35A	79	53,8	45	49	15	35,8	40,5	21	6	47,8
size 0	40 – 125A	79	53,8	45	49	15	35,8	40,5	30	6	47,8
size 1	35 – 200A	135	75	64	68	20	40	51	39	6	52
size 2	32 – 250A	150	75	64	68	26	48	51	39	6	60
size 2	300/315A	150	75	64	68	26	48	60	46	6	60
NH 500V aM with non-isolated gripping lugs											
size 000	2 – 80A	79	53,8	45	49	15	35,8	40,5	21	6	47,8
size 00	100 – 160A	79	53,8	45	49	15	35,8	40,5	30	6	47,8
size 0	100 – 200A	125	68	64	68	15	35,8	44	30	6	47,8
size 1	160 – 250A	135	75	64	68	20	40	47	39	6	52
size 2	250 – 500A	150	75	64	68	26	48	47	39	6	60
size 3	315 – 630A	150	75	64	68	33	60	58	51	6	72
size 4	630 – 1250A	200	85	64	68	33	85	104	89	6	97
NH 690V aM with non-isolated gripping lugs											
size 000	2 – 80A	79	52	45,5	49,5	15	35	40,5	20,8	6	52,5
size 00	50 – 160A	79	52,8	45	50	15	35	47,5	29,5	6	59,5
size 0	6 – 200A	125	66,8	61	66	15	35	47,5	29,5	6	59,5
size 1	16 – 315A	135	70,8	63	68	20	40	52,5	39,5	6	64,5
size 2	35 – 500A	150	72,3	63	68	26	48	60	51	6	72
size 3	250 – 630A	150	72,3	63	68	33	60	74	70	6	86
size 4	400 – 1250A	200	85	62	68	49	95,5	106	90	8	115,5
size 4a	500 – 1250A	200	85	84	90	49	95,5	106	90	6	115,5
NH 400/500V gTr with non-isolated gripping lugs											
size 2	50 – 250kVA	150	72,3	63	68	26	48	60	51	6	72
size 3	250 – 400kVA (500V), 500 - 630VA (400V)	150	72,3	63	68	33	60	74	70	6	86
size 4a	100 – 800kVA	200	85	84	90	49	95,5	106	90	6	115,5

NEW **Microswitch indication system for 000 and 00 fuses as per DIN 43653 and 43620 terminals**

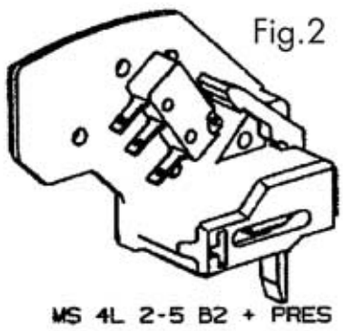


Automatically resettable, these microswitch systems indicate fuse pressence (PRES) and proper mounting.

In case of improper mounting or fuse melting, this is indicated (terminal 1-4 closed).



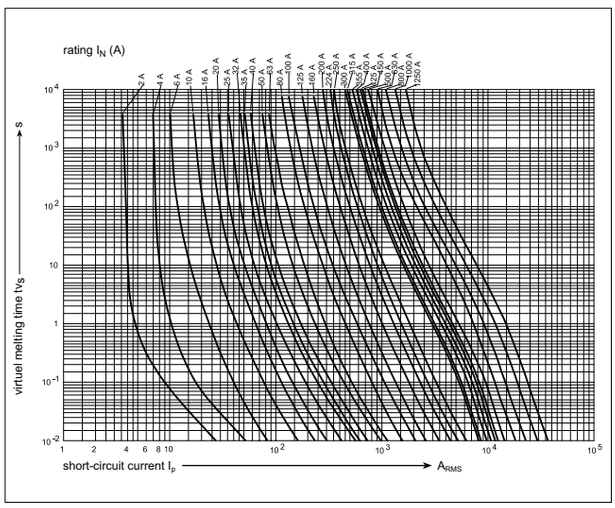
F210156
6,3mm clips



G210157
2,8mm clips

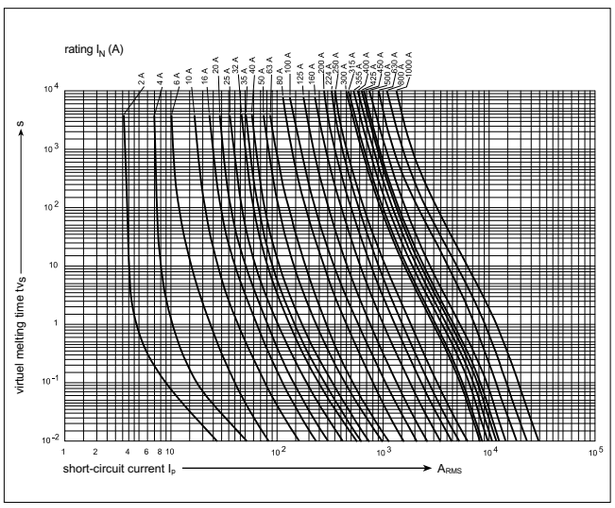
Time-Current Characteristics

500V gG 2 to 1250A



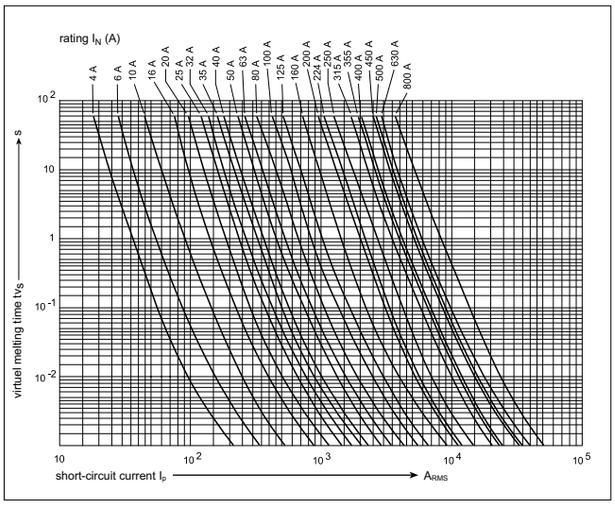
Time-Current Characteristics

690V gG 2 to 1000A



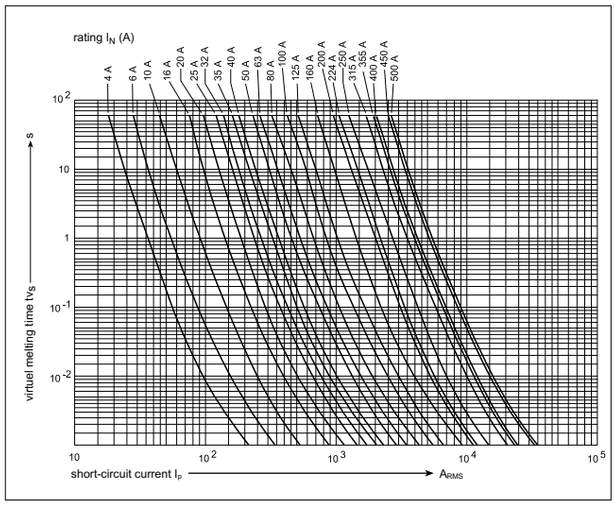
Time-Current Characteristics

500V aM 4 to 800A



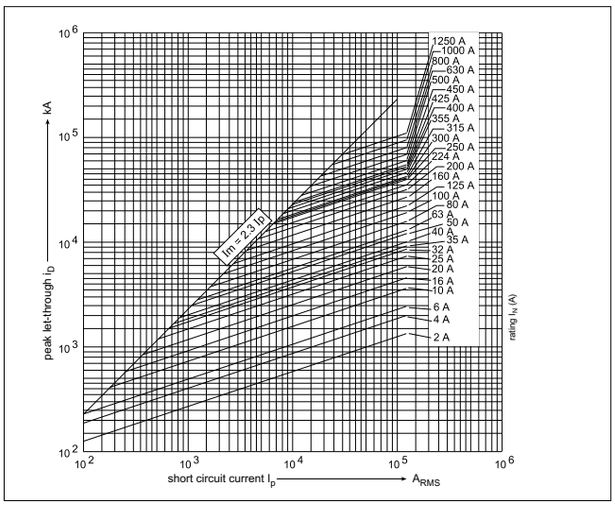
Time-Current Characteristics

690V aM 4 to 500A



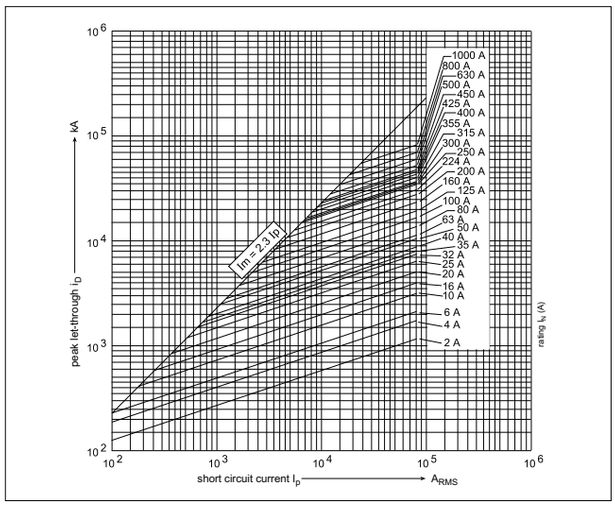
Peak Let-through Characteristics

500V gG 2 to 1250A



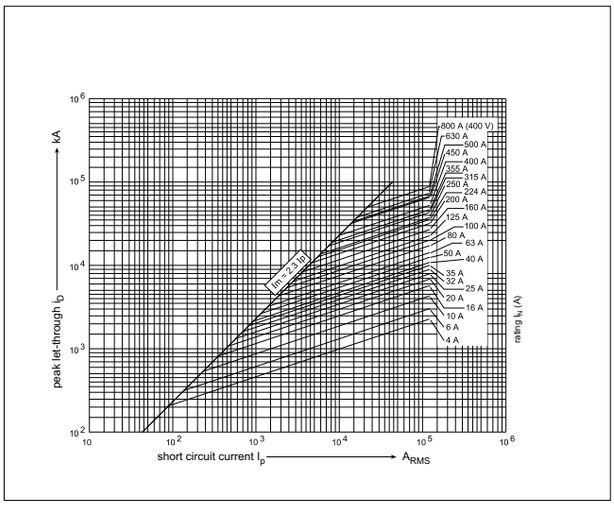
Peak Let-through Characteristics

690V gG 2 to 1000A



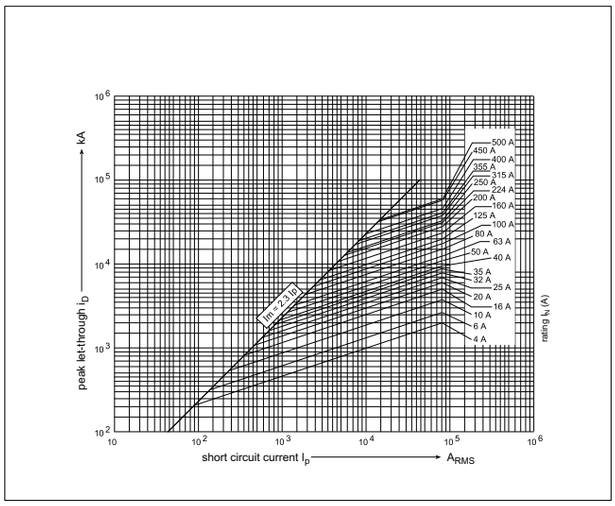
Peak Let-through Characteristics

500V aM 4 to 800A



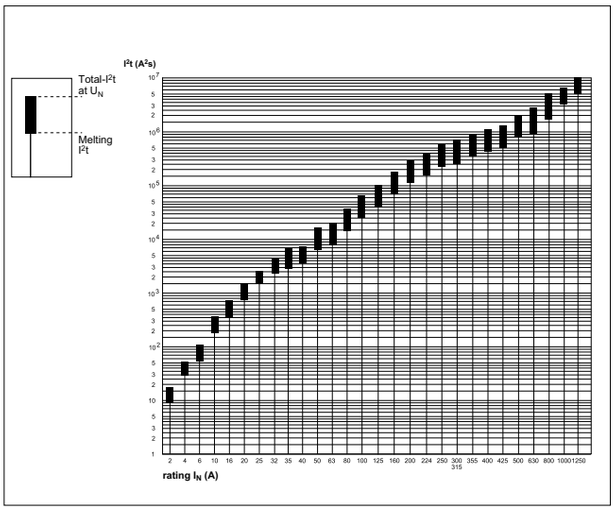
Peak Let-through Characteristics

690V aM 4 to 500A



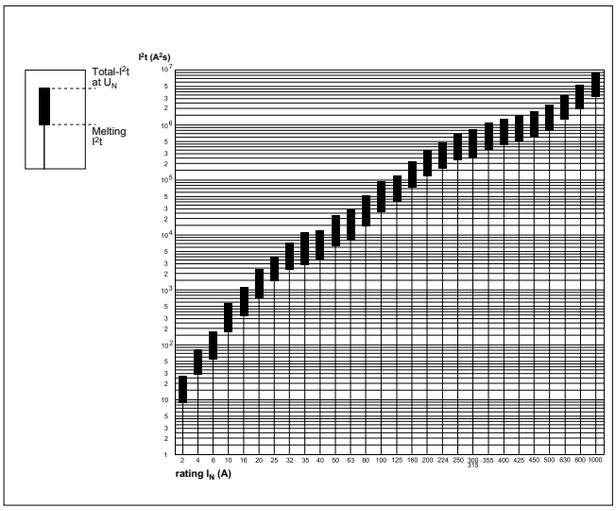
Total-I²t

500V gG 2 to 1250A



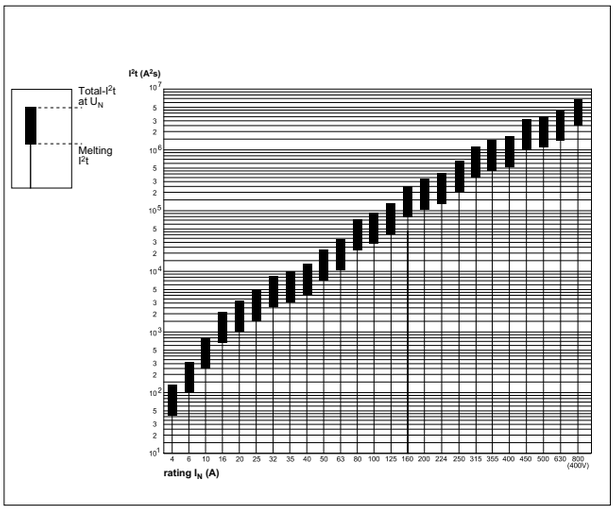
Total-I²t

690V gG 2 to 1000A



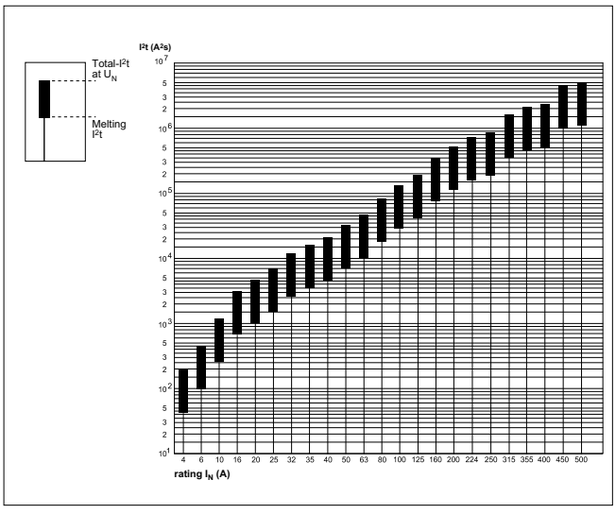
Total-I²t

500V aM 4 to 800A



Total-I²t

690V aM 4 to 500A



Specifications

DIN VDE 0636 parts 1, 10, 21, 22, 201
IEC 60269-2, IEC 60269-2-1, HD 630-2-1 S5

The standardisation for low voltage fuses is DIN VDE 0636 - IEC 60269. The standards are structured as followed:

About all: IEC 60269-1 DIN / VDE 0636 Part 10
Low voltage fuses

IEC 60269-2 DIN VDE 0636 Part 20 Fuses for specialists NH-fuses	IEC 60269-3 DIN VDE 0636 Part 30 Fuses for laity D/D0-fuses	IEC 60269-4 DIN VDE 0636 Part 40 Semi Conductor all systems
IEC 60269-2-1 DIN VDE 0636 Part 201 NH-fuses further demands	IEC 60269-3-1 DIN VDE 0636 Part 301 D/D0-fuses further demands	IEC 60269-4-1 DIN VDE 0636 Part 401 Semi Conductor further demands

Approvals

NH-fuselinks and bases have the following approvals for Marine, Offshore and Industrial applications:

Lloyd's Register Certificate

Certificate #90/00127 for NH fuse links sizes 000, 00, 0, 1, 2 and 3 for 500V and 690V gG and aM classes.
Certificate #90/00130 for NH bases 1 to 4 poles size 00, 0, 1, 2 and 3.

Bureau Veritas

Certificate #03924/CO BV for NH fuselinks 00, 0, 1, 2 and 3 for 500V and 690V gG and aM classes.

Over-current discrimination

Discrimination requires co-ordination of the relevant characteristics of two or more over-current protective devices such that, on the occurrence of over-currents within stated limits, the device intended to operate does so, while the others do not.
According to the standard, fuse-links of the utilization category gG will guarantee discrimination if the ratio of rated currents is at least 1:1.6, no matter what kind of system they are installed in.

Furthermore our FS NH fuses gG reach discrimination with a ratio of 1 : 1,25, i.e. from one current rating to the next. When relying on such a small ratio of rated currents, all fuse-links should be exposed to the same operating conditions.

Power dissipation

The values of nominal power dissipation indicated and verified within the context of the VDE-certification refer to the rated current of each fuse-link. As, however, few NH fuse-links are operated with 100 % of the rated current, the power dissipation values in practice are lower than the nominal values.

Conventional cable overload protection test

The additional test in the appendix of DIN VDE 0636 part 201 with 1,45 x I_N under practical conditions (ambient temperature 30° C, closed box) guarantees that NH fuses of the utilization category gG do correspond to the requirements for protective devices in the sense of DIN VDE 0100 part 430 and thus a direct selection of the rated current of the fuse-link related directly to the loading of the cable is possible.

Text for specification

NH fuse-links size 000 (00,1, 2, 3) conforming with DIN VDE 0636 part 201, 100A, (2...630A), ~500V, gG with double-indicator (indicating at end plate and in the centre of the body), end plates of metal (sfü) or plastic with isolated gripping lugs (SGL), cadmium free and lead free, 100 % recyclable (NH recycling sign on the label)

NH fuse-links with isolated gripping lugs

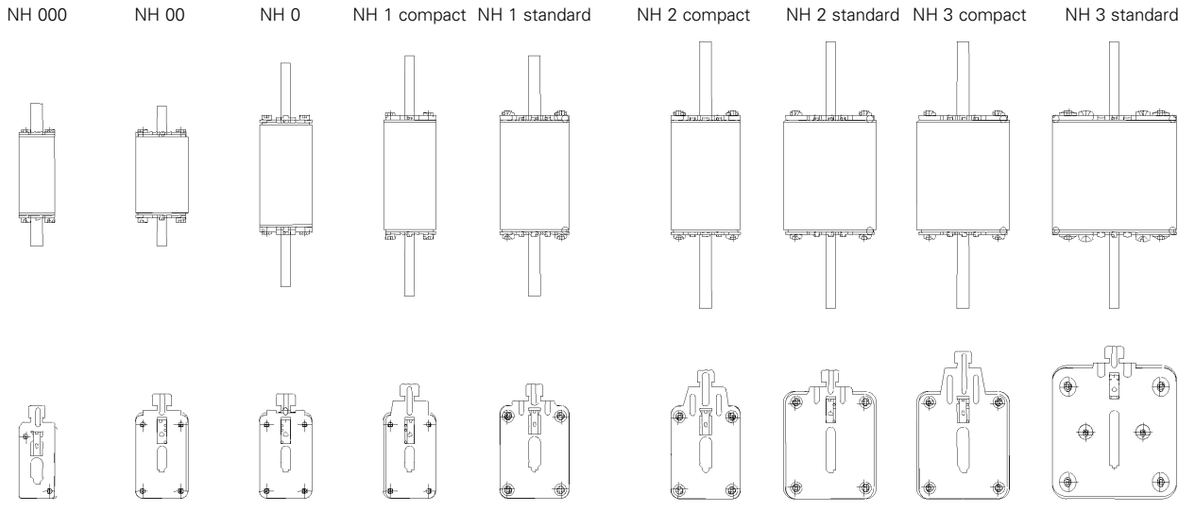
NH fuse-links with insulated gripping lugs increase the safety of maintenance personnel and employees. We call this type SGL; according to the specifications these types are marked with the standardized symbol:

Limitation of short-circuit currents

Due to their construction NH fuses are strongly current limiting. The peak let-through current can be determined by the let-through (or cut-off) characteristics.

Breaking capacity

rated voltage 400V	utilization category gG	100kA$_{eff}$
rated voltage 500V	utilization category gG	120kA$_{eff}$
rated voltage 690V	utilization category gG	80kA$_{eff}$
rated voltage 500V	utilization category aM	120kA$_{eff}$
rated voltage 690V	utilization category aM	120kA$_{eff}$
rated voltage 400V	utilization category gTr	120kA$_{eff}$



Dimensions and Sizes

Besides the clear distinction now between the series 000/C00 and 00, two ceramic bodies are used with each new standard series in sizes 1 to 3.
By using a compact and regular series of ceramic bodies, material and costs are saved. These ceramic bodies do not have any hole passing completely through the body. The ceramic body is manufactured with a double wall in the area of the indicator. Due to these measures our bodies do achieve the maximum possible withstand strength against internal pressure.

Sizes 00, 000/C00

The old standard DIN VDE 0636 part 21 defined the smallest NH-series as size 00 for 100 A.
For some dimensions of NH fuse-links this standard left some margins, as for example in the case of a body width of size 00 from 20mm to 30mm. In order to be able to distinguish between the compact series of approximately 20mm body width and the series of approximately 30mm body width, manufacturers have marked the compact series as C00, although the old standard did not recognize this marking.
It is only with the new standard DIN VDE 0636 part 201 that we have a clear designation of the compact series with approximately 20mm body width as 000, not the C00 as before.

Direct selection for full-range overload protection.

Both miniature circuit breakers and fuse-links of the utilization category gG are suitable for the protection of cable and electrical current according to DIN VDE 0100 part 430 and 0298 part 4. When selecting the over-current protective devices the following rules must be adhered to:

Rated current rule:

$I_B \leq I_N \leq I_Z$	I_B	Operating current
	I_N	Rated current of the over-current protective device

Fusing rule:

$I_2 \leq 1{,}45 \times I_Z$	I_Z	current-carrying capacity of the cable
	I_2	fusing current of the over-current protective device at a fusing time of 1h max.

If MCBs are used as protective devices the operating current 1,45 x I_N is found using characteristics B and C (for MCBs) and also in the corresponding tables. Thus we have an unmistakable selection of the protective device in relation to the loading of the cable.

With regard to gG fuse-links this selection cannot be made either from the time-current characteristics or from the fusing table. The following table gives extracts from the fuse standards the fusing current is called If (indicated above as I_2):

Rated current	convention test duration	non-fusing current	fusing current	valid specification
$I_N \leq 4A$	1h	1,5 x I_N	2,1 x I_N	1)
$4 < I_N < 16$	1h	1,5 x I_N	1,9 x I_N	1)
$16 \leq I_N \leq 63$	1h	1,6 x I_N	1,6 x I_N	2)

I_N rated current of the fuse-link
1) according to IEC EN 60269-2-1 and DIN VDE 0636 part 201 of June 1998 NH-fuses
2) according to IEC EN 60269-1 and DIN VDE 0636 part 10 of July 1996 low-voltage fuses

These values I_f (tested in open fuse bases with ambient air temperature 20 ± 5° C) and also values identified from time-current characteristics suggest that fuses do not satisfy the requirements for the overload protection (1,45 x I_N).
However, the following additional test proves that fuses do really satisfy these requirements.

NH-fuse-base thermoplastic, ~690V/440V, 1 pole

without partition walls

size	rated current I_N (A)	max. conductor cross section (mm²)	terminal version	FS ref.-no.	Lindner ref.-no.	weight g/piece	pack. unit
fixing onto plates							
00	160	95	screw	F215170	41002	130	3
00	160	70	clamp	T219805	41102	137	3
00	160	95/70	screw/clamp	A212106	41122	137	3
0	160	95	screw	B213142	41202	187	3
1	250	150	screw	E218757	41402	457	3
2	400	300	screw	F201853	41502	500	3
3	630	300	screw	W213643	41602	1090	3
fixing onto DIN-busbar							
00	160	70	clamp	F200795	42102	140	3
00	160	95	screw	R216192	42002	134	3

NH-fuse-base thermoplastic, ~690V/440V, 3 pole

incl. two partition walls

size	rated current I_N (A)	max. conductor cross section (mm²)	terminal version	FS ref.-no.	Lindner ref.-no.	weight g/piece	pack. unit
fixing onto plates							
00	160	95	screw	W229122	41016	380	1
fixing onto DIN-busbar							
00	160	95	screw	V229121	42016	380	1

NH-fuse-base thermoplastic, ~690V/440V, 3 pole

protection against accidental contact IP20

size	rated current I_N (A)	max. conductor cross section (mm²)	terminal version	FS ref.-no.	Lindner ref.-no.	weight g/piece	pack. unit
fixing onto plates							
00	160	95	screw	T229120	41017	450	1
fixing onto DIN-busbar							
00	160	95	screw	S229119	42017	450	1

Terminal shields for thermoplastic fuse-bases size 00...3

size	rated current I_N (A)	FS ref.-no.	Lindner ref.-no.	weight g/piece	pack. unit
for NH-fuse-base, 1 pole					
00	160	M222513	44702	16	6
0	160	K200822	44704	25	6
1	250	L201881	44708	52	6
2	400	Y211621	44710	54	6
3	630	X212655	44712	54	6

NH partition walls for thermoplastic fuse-bases size 00...3

1 pole

size	rated current I_N (A)	FS ref.-no.	Lindner ref.-no.	weight g/piece	pack. unit
00	160	W212654	44502	15	2
0	160	Z213669	44504	25	2
1/2	250	*) J214690	44510	45	2
3	630	*) Q215708	44512	65	2

*) for each insulating plate, one separator is possible.

Connecting element for thermoplasitc fuse-bases size 00...3

size	rated current I_N (A)	FS ref.-no.	Lindner ref.-no.	weight g/piece	pack. unit
0	160	V216724	44604	10	2
1/2	250	N217753	44610	20	2
3	630	M218787	44612	30	2

Size 00: Connection without separator possible.

Covers for gripping lugs for thermoplastic fuse-bases size 0...3

size	rated current I_N (A)	FS ref.-no.	Lindner ref.-no.	weight g/piece	pack. unit
use only without microswitch					
00	160	G213170	44802	10	6
0	160	F214181	44804	10	3
1/2	250	K214691	44810	10	6
3	630	R215709	44812	10	3
design for microswitch-use – finger safe (IP20)					
00	160	B233566		9	3
0	160	D233568		9	3
1/2	250	E233569		9	3
3	630	F233570		9	3

Only together with terminal shields.

NH-fuse-base ceramic

~690V/-440V, 3 pole
incl. two partition walls

size	rated current I_N (A)	max. conductor cross section (mm^2)	terminal version	FS ref.-no.	Lindner ref.-no.	weight g/piece	pack. unit
fixing onto plates							
1	250	150	screw	H201717	8141.	2400	1
2	400	300	screw	D211971	8142.	3400	1

NH-fuse-base, ceramic
~690V/-440V

size 4, 1 pole

NEW

size	rated current I_N (A)	terminal version	FS ref.-no.	Lindner ref.-no.	weight g/piece	pack. unit
fixing onto plates						
4	1250	screw	W223004	40014	3200	1

NH-fuse-base
in load breaking design
~690V/-440V

Rated switch capacity 8 x I_N,
for fuse size 4a

size	rated current I_N (A)	terminal version	FS ref.-no.	Lindner ref.-no.	weight g/piece	pack. unit
4a	1250	screw	E222161	8124.	4400	1

NH-busbar fuse-base
~690V/-440V

1 pole

size	rated current I_N (A)	max. conductor cross section (mm^2)	terminal version	FS ref.-no.	Lindner ref.-no.	weight g/piece	pack. unit
including one insulating barrier							
00	160	Cu70/Al95	screw	A213555	8091.2003	130	3

3 pole,
consists of three 1-pole bases:
consecutively at one level or
stepped for 40mm busbar systems

size	rated current I_N (A)	max. conductor cross section (mm^2)	terminal version	FS ref.-no.	Lindner ref.-no.
00	160	Cu70/Al95	clamp	3x A213555	3x 8091.2003

Clamp covers

for busbar fuse-base 8091.2003

size	rated current I_N (A)	FS ref.-no.	Lindner ref.-no.	weight g/piece	pack. unit
for output side					
00	160	Y219717	48130.	13	20
for input side					
00	160	F218666	8091.9003	4	20

Busbar fuse-base

for 40mm busbar systems
with 6 outputs, ~690V/-440V, 3 pole

size	rated current I_N (A)	max. cable section (mm^2)	terminal version	FS ref.-no.	Lindner ref.-no.	weight g/piece	pack. unit
00	160	Cu70/Al95	clamp	Z201203	8094.2	900	2

Repair fuse-base

~690V/-440V,
mountable on normal fuse-bases

size	rated current I_N (A)	terminal version	FS ref.-no.	Lindner ref.-no.	weight g/piece	pack. unit
for NH-disconnector and striptype switch-disconnector (Jean Müller)						
00	100	long contact	T212537	8018.	500	3
for NH-fuse-base						
00	100	short contact	E213053	8019.	500	3

NH-fuse-base ~690V/-440V

NH-fuse-bases are suited for NH-fuses until ~690V and -440V.

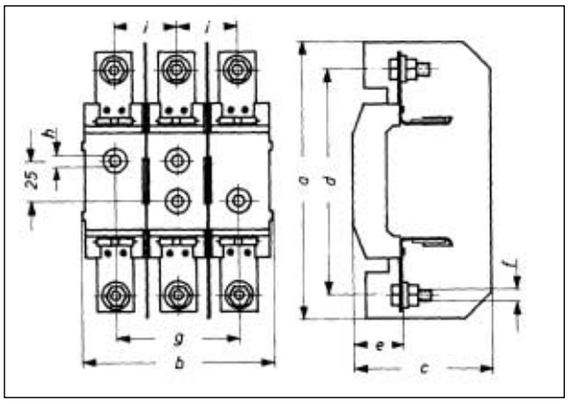
Specifications

IEC 60269
DIN VDE 0636 part 201

thermoplastic fuse-base with fingersafe protection

size	number of poles	1 pole joinable	max.conductor cross section (screw)		max.conductor cross section (clamp)	max. limit on torque (screw)	max. power loss/ pole
conductor cross section, torque							
00	1/3 pole	yes	M8	95mm²	6 – 70mm²	17Nm	12
0	1 pole	yes	M8	95mm²	6 – 70mm²	17Nm	25
1	1/3 pole	yes	M10	150mm²	70 – 150mm²	40Nm	32
2	1/3 pole	yes	M10	300mm²	120 – 300mm²	40Nm	45
3	1 pole	yes	M12	2 x 40 x 5mm	–	48Nm	60
4	1 pole	no	M15	2 x 80 x 5mm	–	60Nm	90
4a	1 pole	yes	M16	2 x 80 x 5mm	–	84Nm	110

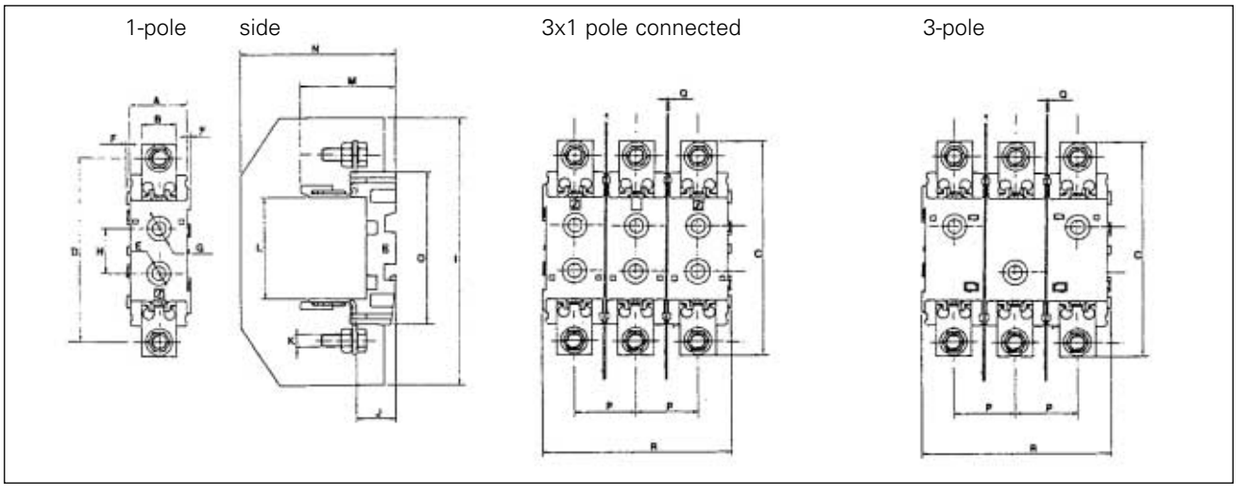
Ceramic fuse-base



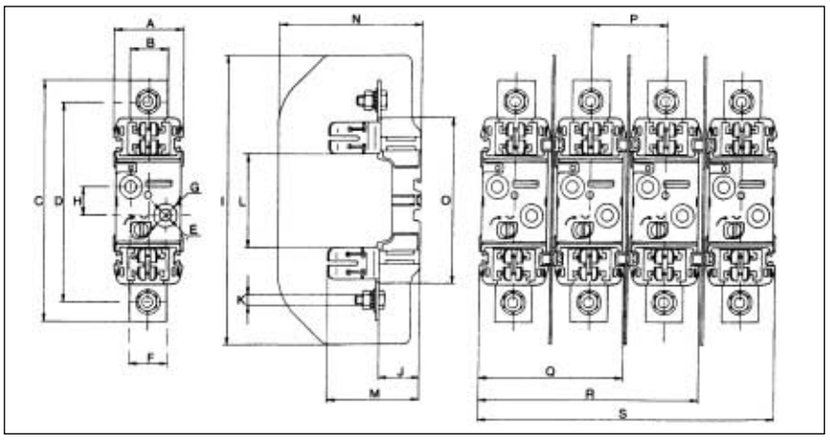
size	a	b	c	d	e	f	g	h	i
1	214	168	108	173	35	M 10	108	10,5	54
2	260	188	115	200	35	M 10	125	10,5	62

Dimensions in mm

Thermoplastic fuse-base size 00



size 0 - 3



size	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
00, 1-pole	32	20	117,0	100,0	8,0	2	14,0	25	145	21,5	M8	56	52	85	84	34,0	1	104	–
00, 3-pole	–	20	118,5	100,5	7,5	3	14,5	25	145	21,5	M8	56	54	87	84	34,0	1	107	–
0	46	20	168,0	151,0	7,5	–	14,5	25	185	29,0	M8	74	59	95	122	48,5	94	142	190
1	60	32	209,0	176,0	10,5	30	20,5	25	250	35,0	M10	81	71	123	146	65,5	126	191	257
2	60	35	225,0	201,0	10,5	30	20,5	25	250	35,0	M10	81	89	123	146	65,5	126	191	257
3	60	40	241,0	210,0	10,5	30	20,5	25	270	35,0	M10	81	103	143	146	81,5	142	223	305

Dimensions in mm

NH00-LINOCUR switch disconnector for NH fuses

to EN 60947-3, IEC 60947-3
DIN VDE 0660, part 107

rated current I_N (A) max. voltage	no. of poles	FS ref.-no.	Lindner ref.-no.	weight in g/piece	pack. unit
Screw or clamp at both sides					
125A ~290V/100A ~400V	1	N216626	8601.	550	1
125A ~500V/100A ~690V	2	B218685	8602.	1100	1
125A ~500V/100A ~690V	3	Y212035	8603.	1650	1
Incoming terminal screw or clamp/outgoing terminal: connector block 3x10mm²					
125A ~290V/100A ~400V	1	N222882	8601.22	550	1
125A ~500V/100A ~690V	2	C201781	8602.22	1100	1
125A ~500V/100A ~690V	3	W213574	8603.22	1650	1

NH00-LINOCUR for direct voltage

2 poles with fuse monitoring

rated current I_N (A) max. voltage	no. of poles	FS ref.-no.	Lindner ref.-no.	weight in g/piece	pack. unit
Screw or clamp at both sides					
125A ~130V	2	S219735	8602.0002	1100	1

Lock-out block

for insertion in the switching lever
with padlock lockable for NH00-LINOCUR

version	FS ref.-no.	Lindner ref.-no.	weight in g/piece	pack. unit
for all versions	M212508	3860.	10	5

Trim frame

for NH00-LINOCUR

version	FS ref.-no.	Lindner ref.-no.	weight in g/piece	pack. unit
3 pole NH00-LINOCUR	C218686	8603.11	20	10
2 x 3 pole NH00-LINOCUR	Q219204	8603.12	30	10
3 pole NH00-LINOCUR long version with testing holes	W222935	8603.13	30	10

Adaptor

for NH00-LINOCUR
3 x 8601, 3 x 8601.22, 1 x 8603,
1 x 8603.22

version	FS ref.-no.	Lindner ref.-no.	weight in g/piece	pack. unit
40mm system	D214593	8600.4	450	1
50mm system	P216627	8600.5	450	1
60mm system	F217654	8600.6	450	1

MULTIVERT
Strip type NH fuse-switch disconnector, size 00

-690V, 160A fully insulated, design width: 50mm outgoing from top/bottom, can be chosen at will, for busbar system 100mm

size	rated current I_N (A)	version	FS ref.-no.	Lindner ref.-no.	weight in g/piece	pack. unit
00	160	screw M8	E200725	8389.	1600	1
with integrated measuring lines for electronic system monitor						
00	160	screw M8	X228755	8389.000001	1300	1

like the a.m. article
but for busbar system 185mm

size	rated current I_N (A)	version	FS ref.-no.	Lindner ref.-no.	weight in g/piece	pack. unit
00	160	screw M8	Y228756	8389.00185	2000	1
with integrated measuring lines for electronic system monitor						
00	160	screw M8	Z228757	8389.001851	1900	1

Adaptor for MULTIVERT
size 00, 100mm

for mounting on 185mm system

size	version	FS ref.-no.	Lindner ref.-no.	weight in g/piece	pack. unit
00	single for 185mm system	Q216628	8379.01185	500	1
00	double for 185mm system	C217145	8379.02185	1120	1

Adaptor for MULTIVERT
size 00, 185mm

for height adjustment of mounting next to MULTIVERT size 1-3

size	version	FS ref.-no.	Lindner ref.-no.	weight in g/piece	pack. unit
00	single for 185mm system	H228765	8379.03185	400	1
00	double for 185mm system	G228764	8379.04185	700	1

Cover for adjustment of MULTIVERT size 00, 100mm to the MULTIVERT size 1, 2, 3

1 sales unit = 2 covers
each unit: 1 piece top, 1 piece bottom

size	FS ref.-no.	Lindner ref.-no.	weight in g/piece	pack. unit
00	X214081	8374.	100	1

Cover for adjustment of MULTIVERT size 00, 185mm to the MULTIVERT size 1, 2, 3

1 sales unit = 2 covers
each unit: 1 piece top, 1 piece bottom

size	FS ref.-no.	Lindner ref.-no.	weight in g/piece	pack. unit
00	F228763	8373.1	10	1

Labelling plate for MULTIVERT size 00 and 1-3

size	FS ref.-no.	Lindner ref.-no.	weight in g/piece	pack. unit
00	K215611	8377.	10	1
1-3	B222181	8385.000005	25	1

Electronic system monitor

for fuse monitoring,
monitoring of phase missing,
automatic recognition of supply,
monitoring of own function

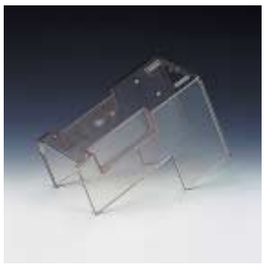
size	FS ref.-no.	Lindner ref.-no.	weight in g/piece	pack. unit
00	D228761	8386.1	350	1
1-3	J228766	8386.2	400	1

MULTIVERT
Strip type NH fuse-switch disconnector

690V, fully insulated
design width: 100mm
outgoing lines top/bottom,
can be chosen at will,
for busbar system 185mm

size	max. rated current I_N (A)	version	FS ref.-no.	Lindner ref.-no.	weight in g/piece	pack. unit
one-pole switchable						
1	250	screw M10	T201267	8391.000005	5000	1
2	400	screw M12	Q207359	8392.000005	5200	1
3	630	screw M12	Z212036	8393.000005	5500	1
three-poles switchable						
1	250	screw M10	D201782	8395.000005	5000	1
2	400	screw M12	T211525	8396.000005	5200	1
3	630	screw M12	R212558	8397.000005	5500	1
three-poles switchable with integrated measuring lines for electronic system monitor						
1	250	screw M10	A228758	8395.000001	5500	1
2	400	screw M12	B228759	8396.000001	5500	1
3	630	screw M12	C228760	8397.000001	7200	1

Cover for the outgoing lines,
MULTIVERT
Size 1, 2, 3



size	clamp version	FS ref.-no.	Lindner ref.-no.	weight in g/piece	pack. unit
1-3	output top	G217655	8380.000005	125	1
1-3	output bottom	Q218169	8381.000005	100	1

Sealing holder set

for sealing the cable covers of MULTIVERT,
size 1, 2, 3
1 sales unit = 3 sealing holders

size	FS ref.-no.	Lindner ref.-no.	weight in g/piece	pack. unit
1-3	R219205	8383.000005	3	1

Set of angle supports for supporting central covers at MULTIVERT

Size 00, 1, 2, 3
1 sales unit = 4 angle supports

size	FS ref.-no.	Lindner ref.-no.	weight in g/piece	pack. unit
00, 1-3	D218687	8382.000005	5	1

Residual field cover

width 50mm,
for busbar systems with 100 or 185mm,
for covering residual fields

size	version	FS ref.-no.	Lindner ref.-no.	weight in g/piece	pack. unit
00	100mm	C213074	8373.001	30	1
00	185mm	X213575	8373.00185	500	1
1-3	185mm	K228767	8383.00185	560	1

Claw clamp set for mounting without boring

of MULTIVERT size 00
1 sales unit = 3 clamps

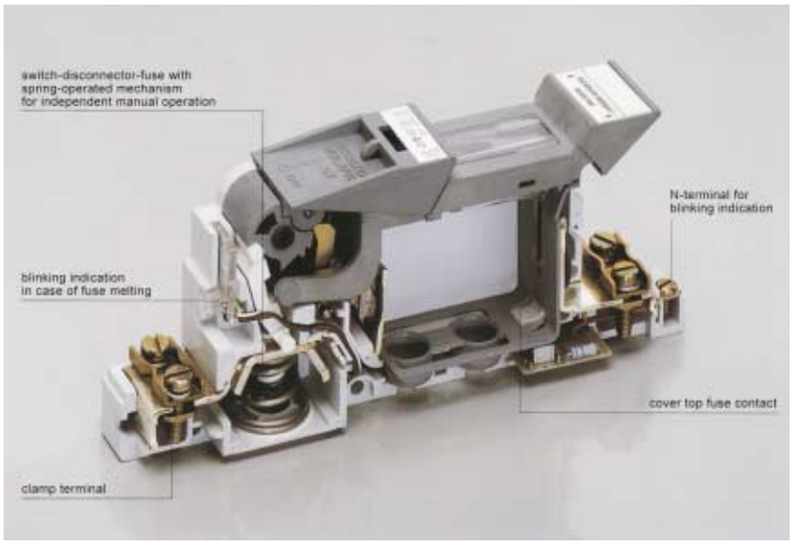
size	FS ref.-no.	Lindner ref.-no.	weight in g/piece	pack. unit
00	K215105	8376.	100	1

Terminal sets (1 set = 3 pcs)

for retooling to other versions of terminals

applicable for	version	FS ref.-no.	Lindner ref.-no.	weight in g/piece	pack. unit
NH 00	screw M8 with disk spring	M229298	8274.	34	1
NH 00	clamp terminal 4-70 mm^2	E214594	8375.	34	1
NH 1	clamp terminal 150 mm^2	E229889	8276.		1
terminal set for Alu and Cu					
NH 00	clamp terminal 4-70 mm^2, 90mm^2se	R211523	8295.007405	76	1
for laminated Cu-bars					
NH 00		Q228749	8295.0064		1

NH00-LINOCUR, switch-disconnector-fuse
125A, ~290/500V, 1- 3-pole
100A, ~400/690V, 1-3-pole

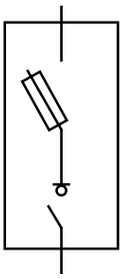


specifications

DIN VDE 0660 part 107
IEC 60947-3
EN 60947-3
VBG 4

graphical symbol

to IEC 60947-3 and
DIN VDE 0660 part 107



Your advantage

More safety and ease of operation in electro-technical equipment.

Basic design

The NH00-LINOCUR combines a switch disconnector according to DIN VDE 0660 part 107 and a NH-fuse-base in one enclosure. The NH00-LINOCUR has a load switch capacity and it complies with the isolating function according to DIN VDE 0660 part 107.

Functional characteristics

The NH00-LINOCUR
- protects lines and equipment
- allows the isolation of electric equipment without removing the NH fuse-links
- has a spring-operated mechanism and thus hand independent operation
- allows a safe connection even in case of accidentally switching on a short circuit current up to 50kA
- avoids dangerous reverse voltages because the electrical equipment is always disconnected on all poles

Safety principle

- disconnect at first, then remove fuse-links
- the NH fuse-link can generally be replaced only in switched-off state and when fully isolated
- the replacement of fuse-links is only possible after disconnecting the load
- a danger due to arcing like in case of ordinary NH-disconnectors or when removing the NH fuse-links out of the fuse-bases is completely ruled out
- Protection against accidental touch of live parts. When removing the fuse-link all metal parts which can be touched are isolated and covered finger safe

Screw/clamp



Attachment types

screw	clamp	connector block
M8	1 x 50mm^2	3 x 10
Max. torque		
4Nm	2,5Nm	0,5Nm

Blinking indication at fuse melting

NH00 LINOCUR switch-disconnector-fuses are generally supplied with an electronic fuse monitoring system which in addition to the ordinary indicator of the NH fuse-link monitors the state of the fuse.

A blinking signal appears in case of fusing. The NH00-LINOCUR is supplied with an additional N terminal. When connecting the N-conductor the function of the blinking lamp is guaranteed independent of load resistance.

Functioning and handling

The NH00-LINOCUR complies with the safety technical requirements according to IEC, VDE and UVV-BGVA2 (accident prevention instructions). Safe operation is possible by unskilled persons.

switched on state

switching off the load

remove the fuse in fully isolated state

switching on without an inserted fuse is not possible

replacing the fuse

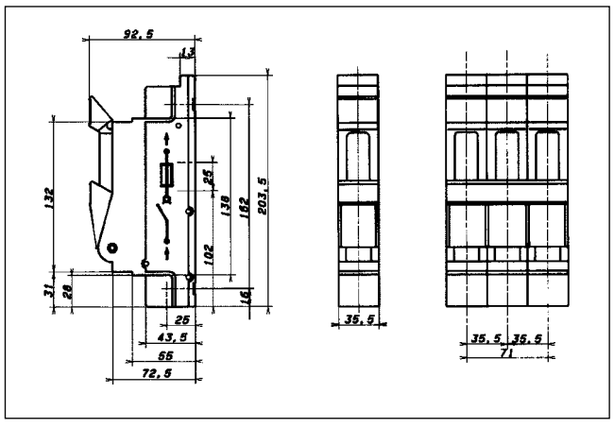
safe switching on (also short circuits)

NH00-LINOCUR comprehensive safety in operation and during fuse replacement

Approvals and testmarks

DIN VDE 0660 part 107	100A/-690V AC 22
Germanischer Lloyd	125A/-500V AC 22
British Lloyd's Register of Shipping	125A/-500V AC 22
ÖVE SN 40	125A/-500V AC 22
NH fuse-links	NH00 to 125A gL/gG
enclosure	special material RAL 7035, subdued grey
attachement types input/output	screw M8, clamp terminal, connector block 3 x 10mm^2
cross sections	up to 70mm^2
sealing	switch knob
locking device for unauthorised operation	device lock-out block (Lindner-ref.-no. 3860)
ambient air temperature	-5°C to 40°C

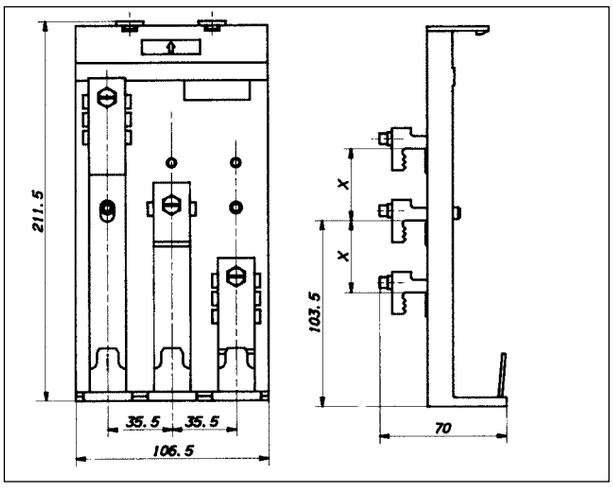
NH00-LINOCUR, switch-disconnector-fuse



Electrical data

tested to DIN VDE 0660 part 107	
rated making and breaking capacity	
utilization category	AC22
rated current	$3I_N$
actuating cycles	25
electrical lifetime	
utilization category	AC22
rated current	I_N
cos φ	0,65
actuating cycles	150
mechanical lifetime actuating cycles	3000
nominal insulation voltage	~1000V
nominal short circuit making capacity	50kA
direct voltage behavior	
nominal making and breaking capacity	
utilization category	DC22
rated current	125A
max. direct voltage per pol	-65V
three poles in series	-195V
switching cycles	5
fuse monitoring	electronic fuse monitoring indicates fusing with blinking lamp
min. operational voltage for function of electronic fuse monitoring	100V

Adaptor for NH00-LINOCUR



MULTIVERT
Strip type NH fuse-switch disconnector

Specifications

DIN VDE 0660 part 107
EN 60947-3
IEC 60947-3 (IEC 408)
DIN 43623

Directions for use

The strip type NH fuse-switch disconnectors are available in the following sizes and versions:

- for busbar distance 100mm
  size 00 for 160A, 3 poles switchable (can be adapted to 60mm and 185mm systems)
- for busbar distance 185mm

Size 00	for 160A	1 and 3 poles
Size 1	for 250A	1 and 3 poles
Size 2	for 400A	1 and 3 poles
Size 3	for 630A	1 and 3 poles

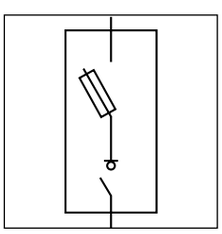
Combination possibilities

The Multivert size 00 can be combined with the Multivert size 1-3.
With their mounting width of only 50mm two Multivert size 00 dispose of the same space as one of the sizes 1, 2 and 3 and both can be used side by side. Multivert 00 for 100mm busbar distance can be mounted on the busbar system with an adaptor. Multivert 00 for 185 mm busbar distance can be mounted without adaptor. In order to achieve the height adjustment with the types of sizes 1-3 adaptors can be used. Extended covers for the cable terminal for length adjustment are available as accessory.

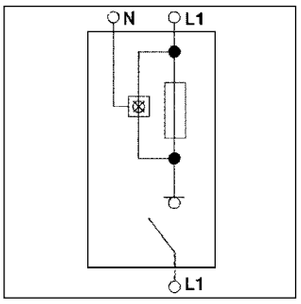
Planning guide

Specification text	strip type NH fuse-switch disconnector "MULTIVERT" to DIN VDE 0660 part 10 IEC 60947-3 EN 60947-3 DIN 43623
Electrical indications	current/voltage: up to 630A/660 (690)V
Utilization category	AC 23B at -400V, cos φ = 0,35 at rated current
Design	for NH fuse-links sizes 00, 1, 2, 3
Mounting	direct mounting on the busbar systems 100mm (size 00) or 185mm (size 00-3), terminals also for aluminium conductor outgoing for top/bottom can be chosen at will
Options	adaptor for busbar systems with 60/185mm for size 00
Accessory	residual field cover labelling plate covers, etc.

Graphical symbol to IEC 6047-3



Graphical symbol with fuse monitoring (electrical)

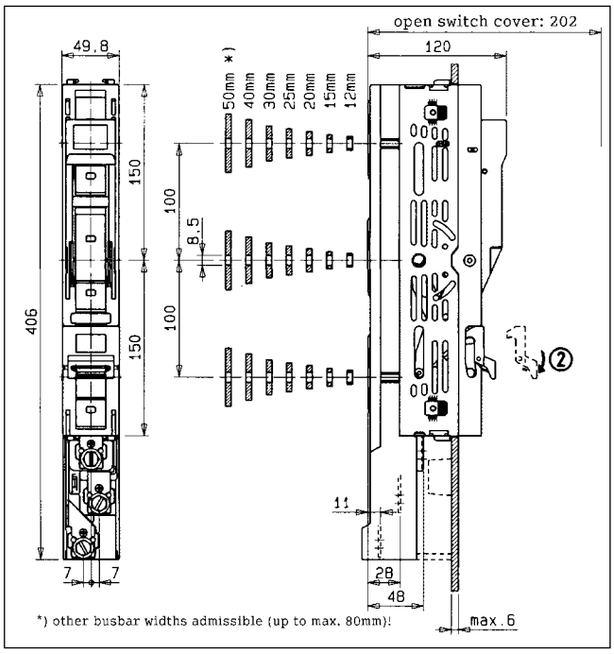


Ferraz Shawmut

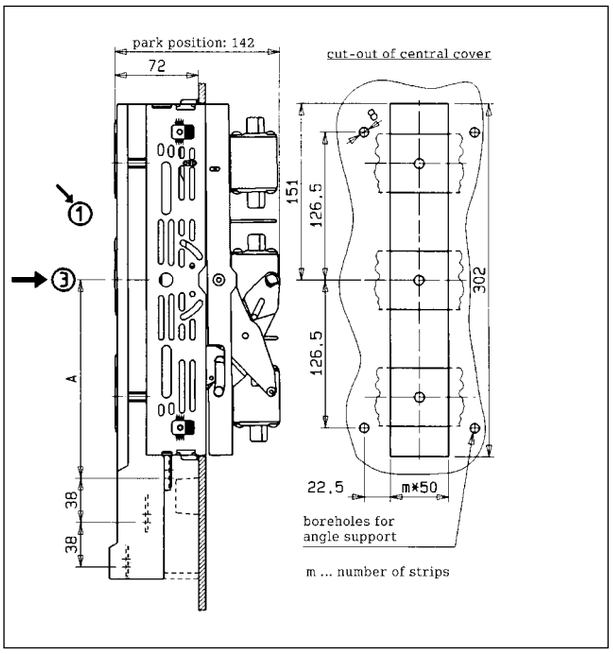
MULTIVERT
Strip type NH fuse-switch disconnector

size	size 00	size 1	size 2	size 3
classification: NH fuse-switch-disconnector to DIN VDE 0660 part 107				
specifications: DIN VDE 0660 part 107, EN 60947-3, DIN 43623				
number of poles	3-poles	3-poles	3-poles	3-poles
switchable number of poles	1-, 3-poles	1-, 3-poles	1-, 3-poles	1-, 3-poles
rated uninterrupted current I_n				
with fuse-links to DIN VDE 0636 part 201	160A	250A	400A	630A
conventional free air thermal current I_{th}	160A	250A	400A	630A
with disconnecting knives	250A	400A	630A	1000A
rated duty	uninterrupted duty	uninterrupted duty	uninterrupted duty	uninterrupted duty
rated operational voltage U_e	~660 (~690) V	~660 (~690)V	~660 (~690)V	~660 (~690)V
rated frequency	45 – 52Hz	45 – 62Hz	45 – 62Hz	45 – 62Hz
rated insulation voltage U_i	1000V	1000V	1000V	1000V
rated impulse withstand voltage U_{imp}	8kV	12kV	12kV	12kV
rated short-time withstand current I_{cw}				
(1 sec with disconnecting knives)	4000A	5000A	8000A	12600A
rated short-circuit making capacity I_{cm}				
with fuses	50kA	50kA	50kA	50kA
	size 00/160A	size 1/250A	size 2/400A	size 3/630A
rated breaking capacity				
rated operational current I_e at				
AC 23B/400V cos φ = 0,35	160A	125A	200A	315A
AC 22B/500V cos φ = 0,65	160A	250A	400A	630A
AC 21B/660V cos φ = 0,95	100A	125A	300A	250A
DC 22B/440V	160A	–	–	–
admissible ambient air temperature	-25 to + 55°C	-25 to + 55°C	-25 to + 550°C	-25 to + 55°C
stock temperature	-40 to +80°C	-40 to +80°C	-40 to + 80°C	-40 to +80°C
mechanical lifetime (cycles)	1000	1000	1000	1000
mechanical and				
electrical lifetime (cycles)	50 cycles at rated duty			
max. power dissipation				
(of the fuse-links)	12W	23W	34W	48W
attachment types/ cross sections and				
max. admissible torques	M8/15Nm	M10/38Nm	M12/38Nm	M12/48Nm
screw at the output				
position of utilization	horizontally and vertically			
degree of protection	IP 20	IP 20	IP 20	IP 20

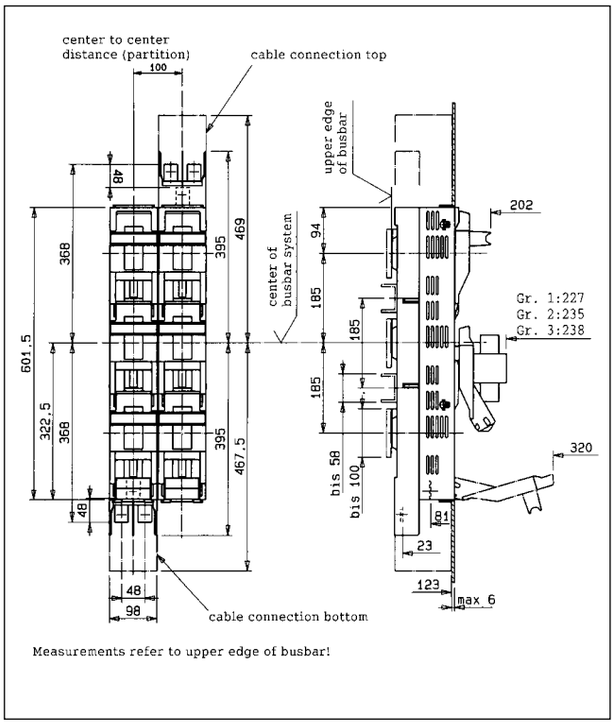
MULTIVERT size 00 Lindner-ref.-no. 8389.



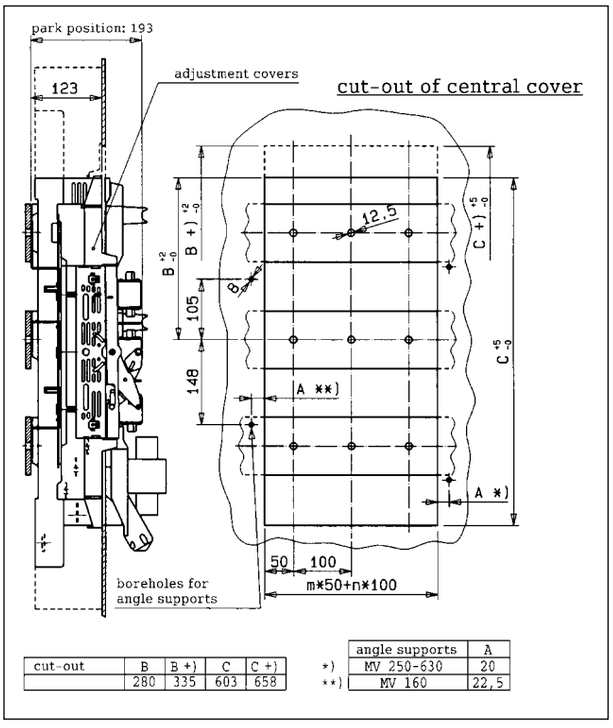
Cut-out of central cover



MULTIVERT size 1, 2, 3



Combination size 00, 100mm with size 1, 2, 3



cut-out	B	B +)	C	C +)
	280	335	603	658

	angle supports	A
*)	MV 250-630	20
**)	MV 160	22,5

NH-MULTIBLOC fuse-switch-disconnector

~ 690V screw fixing of disconnectors onto plates

	size	rated current I_N (A)	no. of poles	terminal version	FS ref.-no.	Lindner ref.-no.	weight in g/piece	pack. unit
	00	160	1	screw M8 both sides	F229292	8215.2	288	1
	00	160	2	screw M8 both sides	G229293	8225.	578	1
	00	160	3	screw M8 both sides	H229294	8235.	679	1
	00	160	3	clamp terminals 4-70mm²	J229295	8235.2	679	1
new	1	160	4	screw M8 both sides	S233144	8245.	1156	1
	1	250	1	screw M10 both sides	*) Q229876	8211.	871	1
	1	250	2	screw M10 both sides	*) R229877	8221.	1742	1
	1	250	3	screw M10 both sides	*) S229878	8231.	2025	1

*) mounting of clamp terminal is possible

NH-MULTIBLOC busbar mounting fuse-switch-disconnector

~ 690V direct contact on 5 or 10mm busbars

	size	rated current I_N (A)	no. of poles	terminal version	FS ref.-no.	Lindner ref.-no.	weight in g/piece	pack. unit
	for 40mm busbar system							
	00	160	3	screw M8/clamp terminal 4-70mm²	Q229278	8255.	924	1
	for 60mm busbar system							
	00	160	3	screw M8/clamp terminal 4-70mm²	R229279	8265.	924	1
	for 40/60mm busbar system							
new	1	250	3	screw M10	*) T229879	8261.	2721	1

*) mounting of clamp terminal is possible

Cable cover

(1 set = 2 pieces)

	applicable for	FS ref.-no.	Lindner ref.-no.	weight in g/piece	pack. unit
	NH 00 1- and 2-pole	V229282	8215.004	18	1
	NH 00 3-pole	W229283	8235.004	36	1
new	NH 1, 1- and 2-pole	V229880	8211.004	81	1
new	NH 1, 3-pole	W229881	8231.004	168	1

Shock hazard protection for busbar mounting disconnectors

No touch

(1 set = 2 pieces)

	applicable for	version	FS ref.-no.	Lindner ref.-no.	weight in g/piece	pack. unit
	NH 00	3-pole	X229284	8235.009	43	1
new	NH 1	3-pole	X229882	8231.009	136	1

Frame Trim

	applicable for		version	FS ref.-no.	Lindner ref.-no.	weight in g/piece	pack. unit
	NH 00	3-pole	one-fold	Y229285	8235.001	20	1
	NH 00	3-pole	two-fold	Z229286	8235.002	30	1
	NH 00	3-pole	three-fold	A229287	8235.003	30	1
new	NH 1	3-pole	one-fold	Z229884	8231.001		1

DIN rail mounting

	applicable for		version	FS ref.-no.	Lindner ref.-no.	weight in g/piece	pack. unit
	NH 00	1-pole	150mm distance	C229289	8215.5	81	1
	NH 00	1-pole	125mm distance	B229288	8215.7	65	1
	NH 00	3-pole	150mm distance	E229291	8235.5	134	1
	NH 00	3-pole	125mm distance	D229290	8235.7	108	1
new	NH 1	1-pole	150mm distance	B229886	8211.5	134	1
new	NH 1	1-pole	125mm distance	A229885	8211.7	106	1
new	NH 1	3-pole	150mm distance	D229888	8231.5	232	1
new	NH 1	3-pole	125mm distance	C229887	8231.7	185	1

Microswitch for monitoring the lid position

applicable for	FS ref.-no.	Lindner ref.-no.	weight in g/piece	pack. unit
NH 1 all disconnectors , disconnectors for NH 00 mounting on plates, 1-, 2-pole	E228762	8378.1	3	1
NH 00 disconnector for mounting on plates, 3-pole	S229280	8378.3	20	1
NH 00 busbar mounting disconnector, 3-pole	T229281	8378.4	20	1

Locking and sealing devices

applicable for	version	FS ref.-no.	Lindner ref.-no.	weight in g/piece	pack. unit
NH 00 and 1	window locking (1 set = 3 pcs.)	K229296	8280.	4	1
NH 00 and 1	sealing set	L229297	8281.	4	1

Terminal clamp sets (1 set = 3 pieces)

for retooling to other terminal versions

	applicable for		version	FS ref.-no.	Lindner ref.-no.	weight in g/piece	pack. unit
	NH 00		screw M8 with disk spring	M229298	8274.	34	1
	NH 00		clamp terminal 4-70 mm²	E214594	8375.	34	1
new	NH 1		clamp terminal 150 mm²	E229889	8276.		1
	for aluminium and copper conductors						
	NH 00		clamp terminal 4-70mm² 90mm²se	R211523	8295.007405	76	1
	for laminated copper bars						
	NH 00		set of terminal for Cu	Q228749	8295.0064		1

Lid for disconnectors both for mounting on plates and busbars

(replacement)

size	FS ref.-no.	Lindner ref.-no.	pack. unit
00	Y229883	8235.9	1

NH MULTIBLOC fuse-switch-disconnector size 00 and 1 690V~

IEC/EN 60 947-3
Breaking capacity according to EN 60-947-3:
AC 23B/400V AC 22B/500V
AC 21B/690V DC 22B/440V
for NH fuse-links according to EN 60269-2-1 / section 1.
VDE 0636 / part 201

Highlights

- Breaking capacity 80kA/50kA
- Modern robust design
- 1-pole, 2-pole, 3-pole and 4-pole type
- IP20 shock hazard protection – also for voltage measurement at the NH fuse-link
- Parking position for the lid
- Outgoing lines alternatively on top or at the bottom
- Busbar mounting disconnector size 00 and 1 flexible for 5 and 10mm bars
- Busbar mounting disconnector size 1: center to center busbar distance 40mm and 60mm adjustable

Features

- Modular cover system
  Cover for cable lugs or terminals (can be enlarged)
- Locking and sealing – optional
- Microswitch for lid position – optional
- 3 terminal types: screw, clamp, terminals for Al/Cu
- Halogen-free, non inflammable plastics, marked for recycling according to the individual types of material

The new MULTIBLOC series with its outstanding design replaces the traditional LINDNER fuse-switch-disconnector "series GI" and "series BS". The range encompasses both disconnectors for the traditional panel building on mounting plates and busbars for the direct contact on busbars. The new disconnector series is completed by a comprehensive accessory program giving flexibility in many different applications.

locking and sealing

IP20 shock hazard protection also for voltage measurement

parking position of the lid

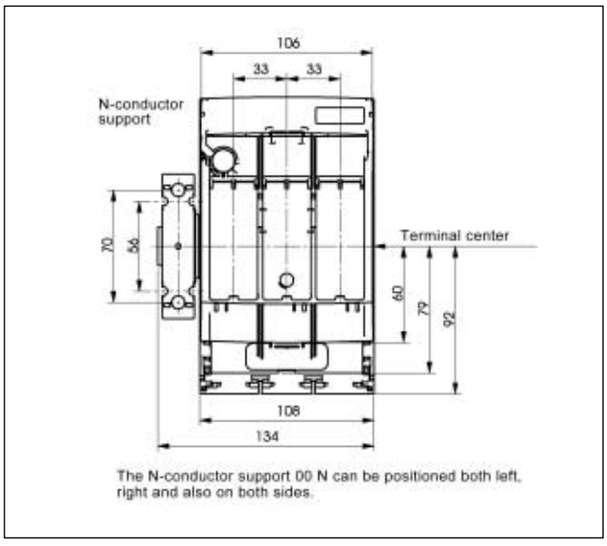
NH fuse-switch-disconnector size 00
160A 690V~
Technical data according to EN 60947/IEC 947

Size		00	
Number of poles/phases		1, 2, 3, 4	
Conventional free air thermal current I_{th} NH fuse-links		160A	
Maximum admissible nominal power dissipation of the NH fuse-links		12W	
Conventional free air thermal current I_{th} with disconnecting knives		200A	
Maximum admissible nominal power dissipation with disconnecting knives		1,2V	
Rated operational voltage U_e	400V AC	500V AC	690V AC
Rated operational current I_e	160A	160A	125A
Utilization category	AC 23B	AC 22B	AC 21B
Rated insulation voltage U_i		1000V	
Rated impulse withstand voltage U_{imp}		8kV	
Rated frequency		50-60Hz	
Degree of protection		IP 2Lx	
Pollution degree		3	
Rated duty		uninterrupted duty	
Rated short-circuit making capacity I_{cm} with disconnecting knives size 00		6,1kÂ	
Conditional rated short-circuit current for protection with fuse	80kA	80kA	50kA
Rated short-time withstand current I_{cw} with disconnecting knives		≤ 4,0kA/1s	
Power dissipation at 160A without NH fuse-links		7W	
Power dissipation at 200A without disconnecting knives		7W	
Standard terminal		M8	
for current bars with maximum width		20mm	
for cable lugs		max. 2 x 70mm²	
Ambient air temperature range		-25 – +55°	

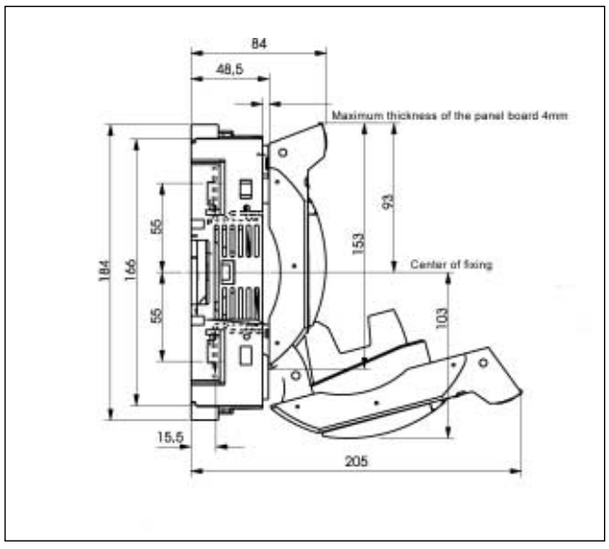
NH fuse-switch-disconnector size 1
250V 690V~
Technical data according to EN 60947/IEC 947

Size		1	
Number of poles/phases		1, 2, 3	
Conventional free air thermal current I_{th} NH fuse-links		250A	
Conventional free air thermal current I_{th} with disconnecting knives		400A	
Maximum admissible nominal power dissipation of the NH fuse-links		23W	
Maximum admissible nominal power dissipation of disconnecting knives		8W	
Power dissipation per pole at 250A without NH fuse-links	4W busbar disconnectors 11W		
Power dissipation per pole at 400A without disconnecting knife	4W busbar disconnectors 11W		
Rated operational voltage U_e	400V AC	500V AC	690V AC
Rated operational current I_e	250A	250A	200A
Utilization category	AC 23B	AC 22B	AC 21B
Conditional rated short-circuit current for protection with fuse	80kA	50kA	50kA
Rated short-circuit making capacity I_{cm} with disconnecting knives size 00		6,2kÂ	
Rated short-time withstand current I_{cw} with disconnecting knives		8,0kA/1s	
Rated insulation voltage U_i		1000V	
Rated impulse withstand voltage U_{imp}		12kV	
Rated frequency		50-60Hz	
Degree of protection	IP 30 from the front/IP 20 open		
Pollution degree		3	
Rated duty		uninterrupted duty	
Ambient air temperature range		-25 – +55°	
Standard terminal		M10	
for current bars with maximum width		18mm	
for cable lugs	2x150mm Cu, 2x185 mm Al		
Busbar terminal with busbar mounting disconnector center to center busbar distance 40mm		12x5mm bars	
center to center busbar distance 50mm		12x5mm to 30x10mm bars	

NH 00 3-pole (disconnector for mounting on plates)

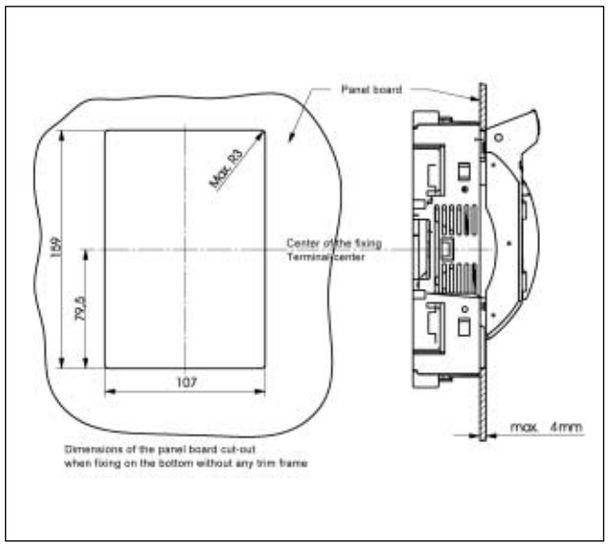


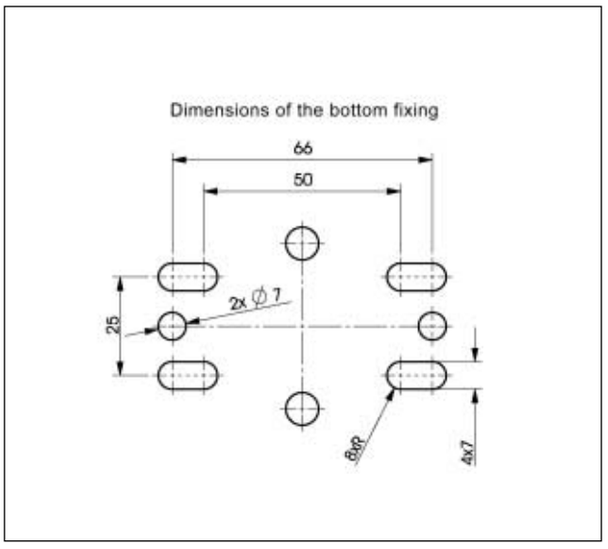
The N-conductor support 00 N can be positioned both left, right and also on both sides.



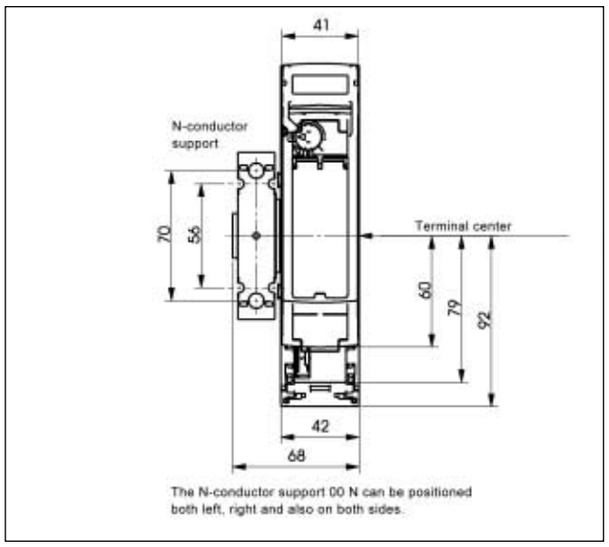
Ferraz Shawmut

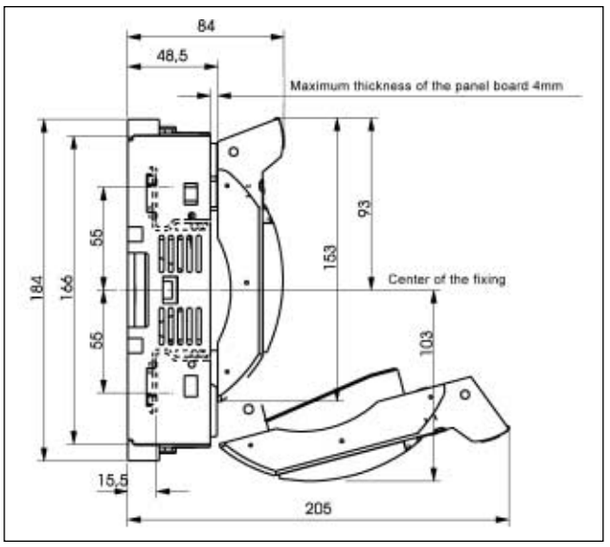
NH 00 3-pole (disconnector for mounting on plates)



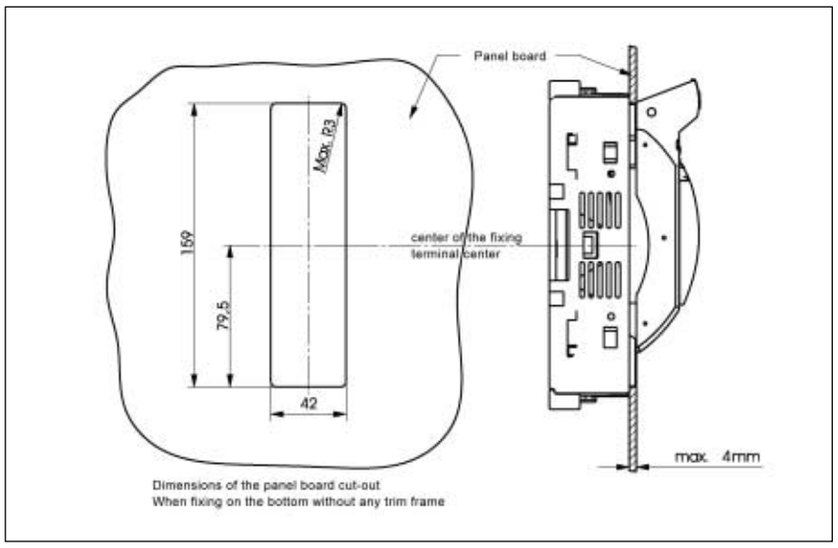


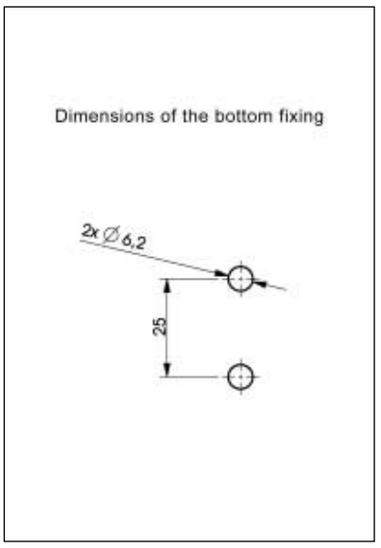
NH 00 1-pole



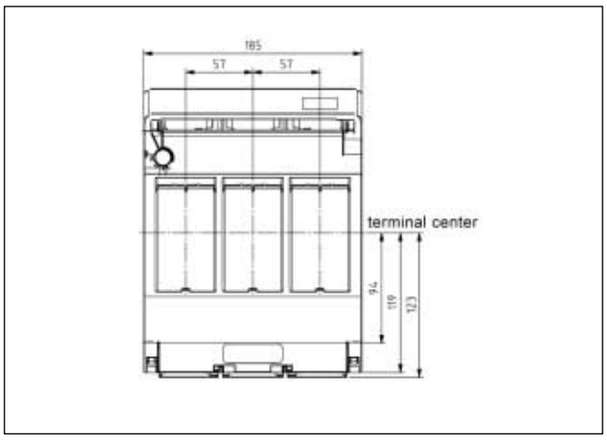


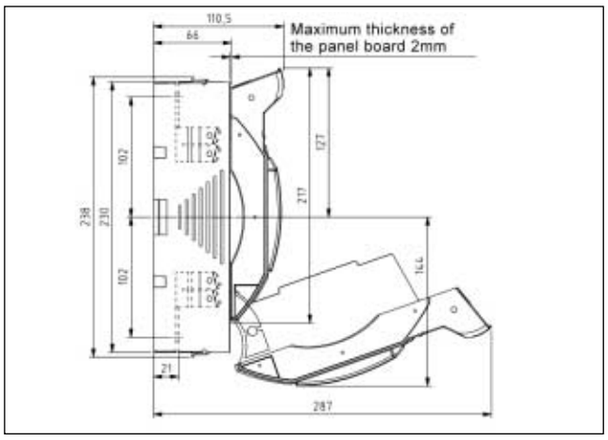
NH 00 1-pole



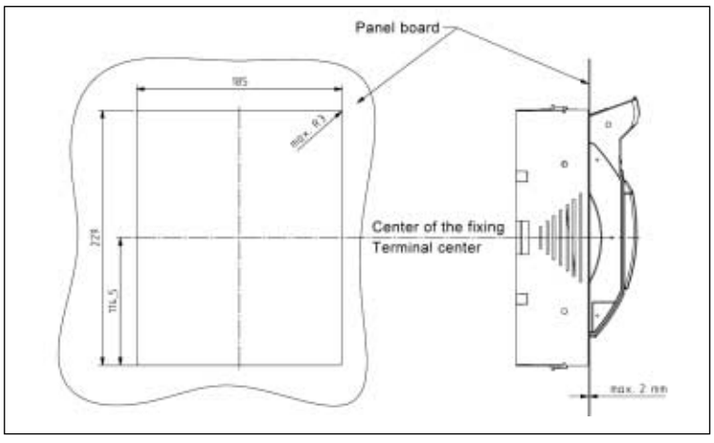


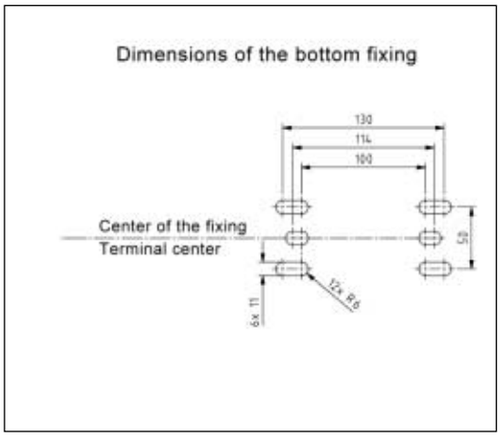
NH 1 3-pole (disconnector for mounting on plates)



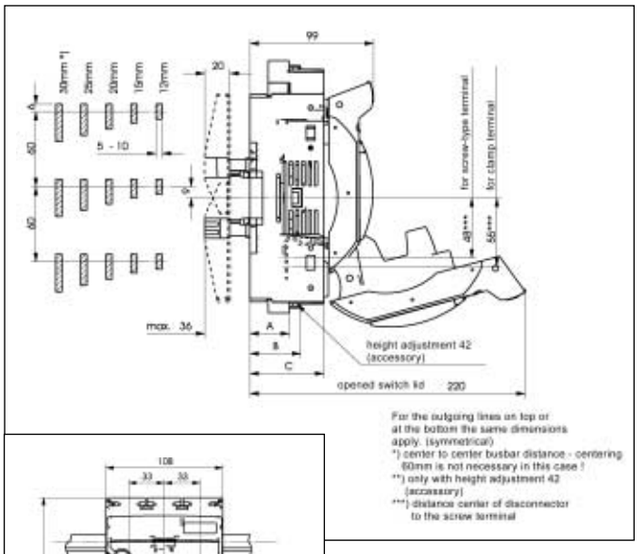


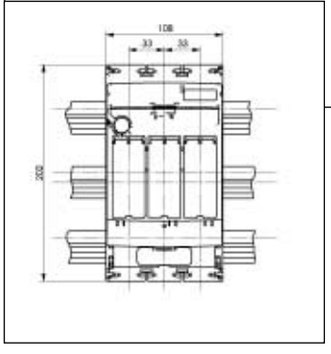
NH 1 3-pole (disconnector for mounting on plates)

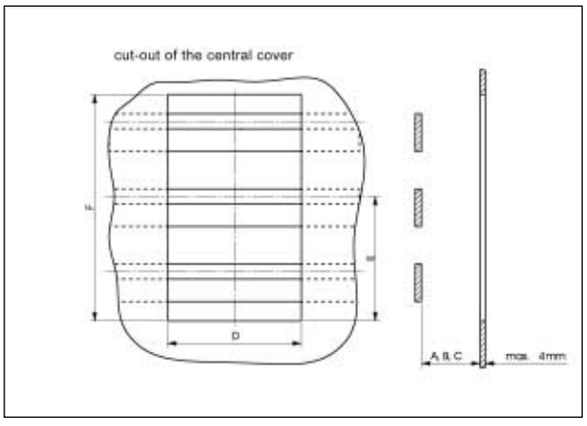




NH 00 3-pole (TRI 60 busbar mounting disconnector, busbars horizontal)



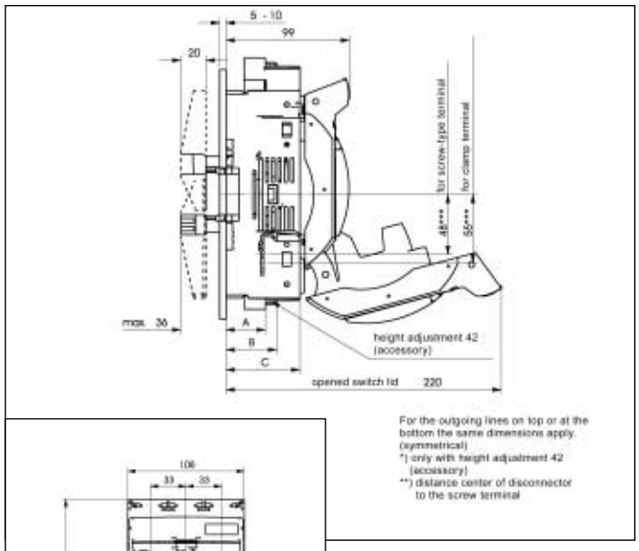




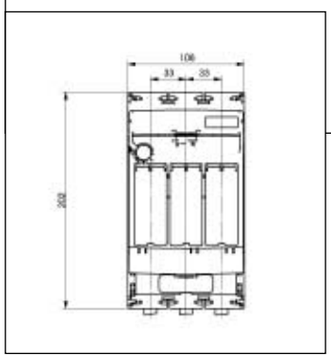
mounting-depth		dimensions of cut-out		
		D	E	F
A	32	109	97,5	195
B**)	42	109	97,5	195
C	59,9	105	90,5	181

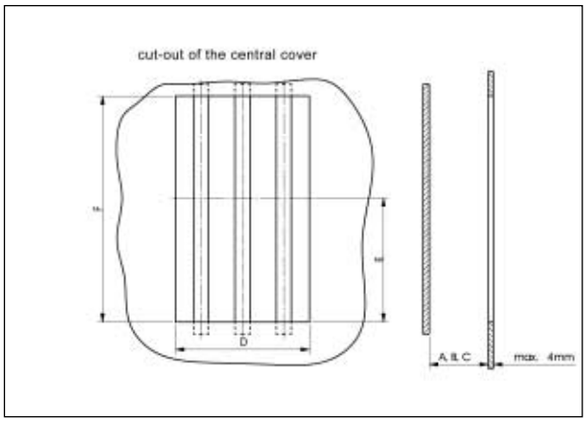
Ferraz Shawmut

NH 00 3-pole (TRI 60 busbar mounting disconnector, busbars vertical)



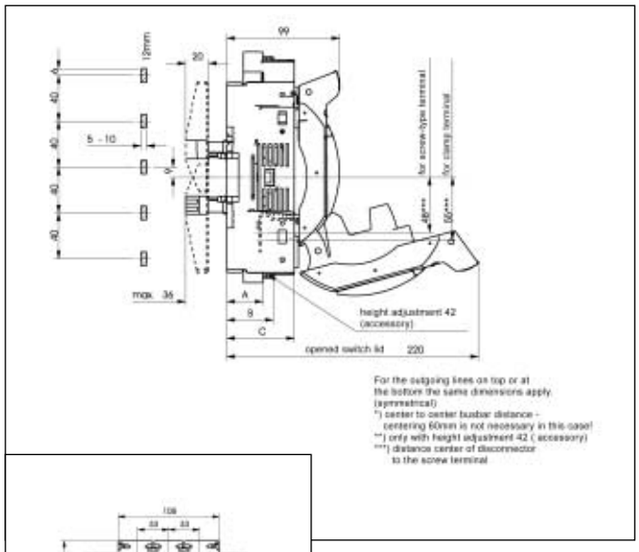
For the outgoing lines on top or at the bottom the same dimensions apply (symmetrical)
*) only with height adjustment 42 (accessory)
**) distance center of disconnector to the screw terminal



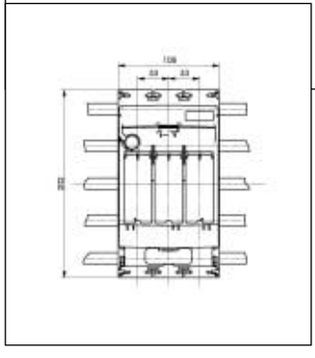


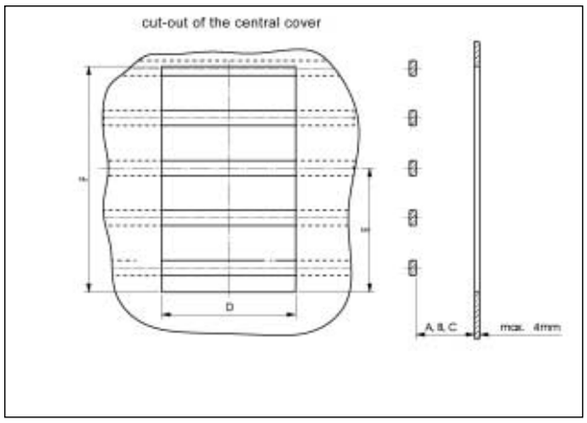
mounting-depth		dimensions of cut-out		
		D	E	F
A	32	109	97,5	195
B**)	42	109	97,5	195
C	59,9	105	90,5	181

NH 00 3-pole (40 mm busbar mounting disconnector)



For the outgoing lines on top or at the bottom the same dimensions apply (symmetrical)
*) center to center busbar distance - centering 60mm is not necessary in this case!
**) only with height adjustment 42 (accessory)
***) distance center of disconnector to the screw terminal

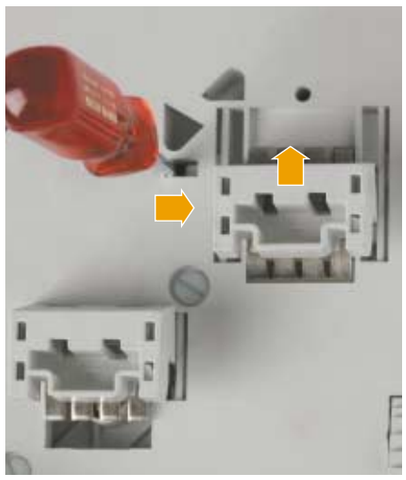


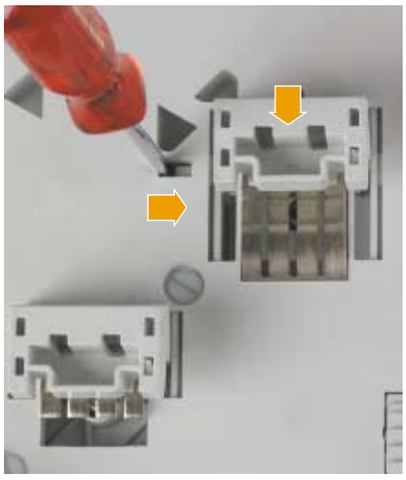


mounting-depth		dimensions of cut-out		
		D	E	F
A	32	109	97,5	195
B**)	42	109	97,5	195
C	59,9	105	90,5	181

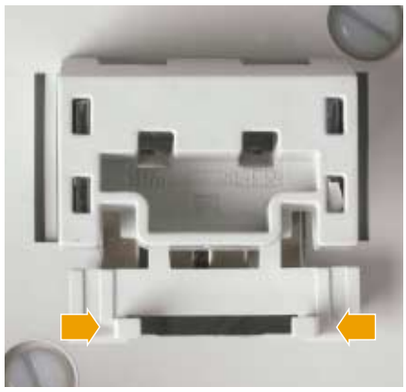
MULTIBLOC busbar mounting disconnector size 1

Adjust the center busbar distance 40mm and 60mm





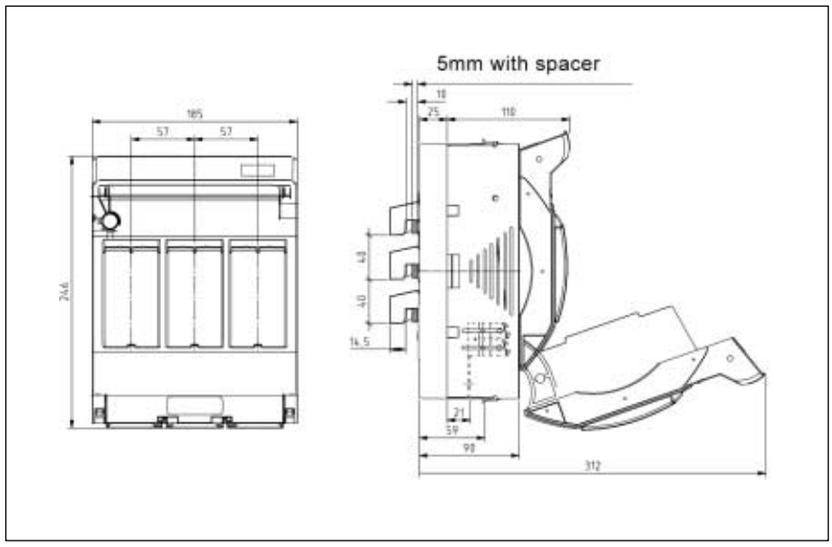
Adjust the thickness of busbar

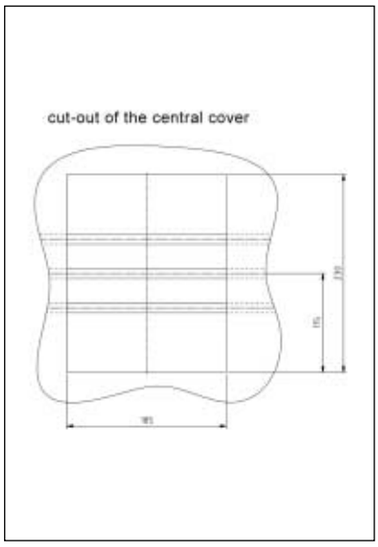


put on...

...snap on

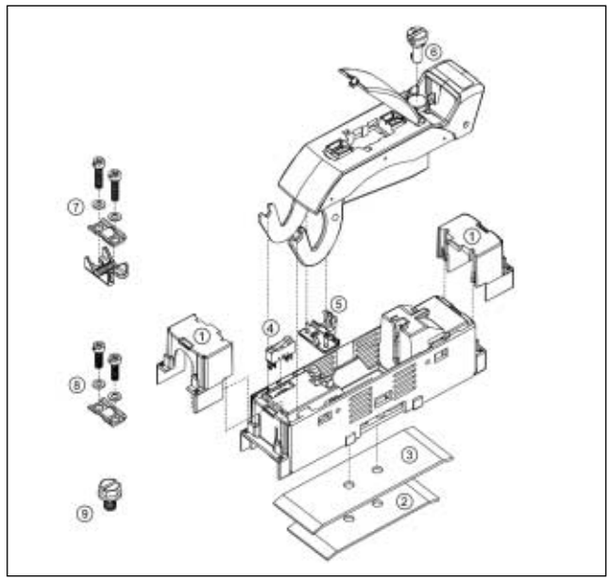
NH 1 · 3-pole (busbar mounting disconnector)





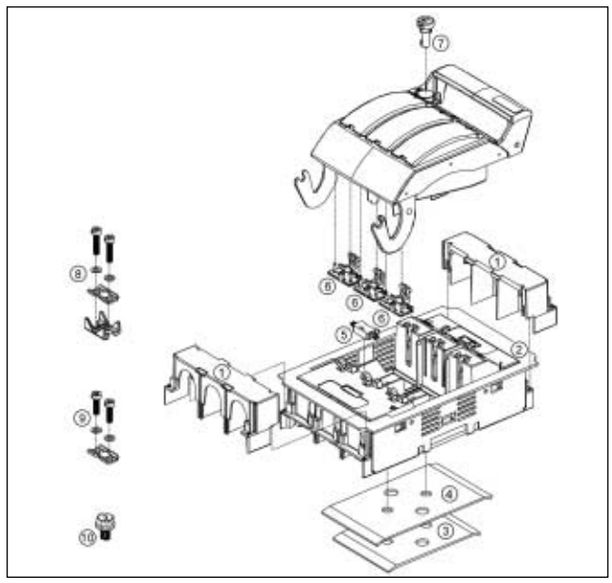
NH fuse switch-disconnector size 00, 160A 690V ~, 1-pole, disconnector for mounting on plates

no.	designation	standard	option	accessory
	00 1-pole, terminal for screws M8	•		
	00 1-pole, terminal for clamps Cu 4-70mm²		•	
1	cable cover 1-pole			•
2	DIN fixing, 125mm			•
3	DIN fixing, 150mm			•
4	Microswitch for lid position			•
5	Window locking system against illegal connection			•
6	Sealing set			•
7	terminal for screw M8			•
8	terminal for Cu 4-70mm²			•
9	terminal Al/Cu, 1,5 – 70mm², 95mm² se			•



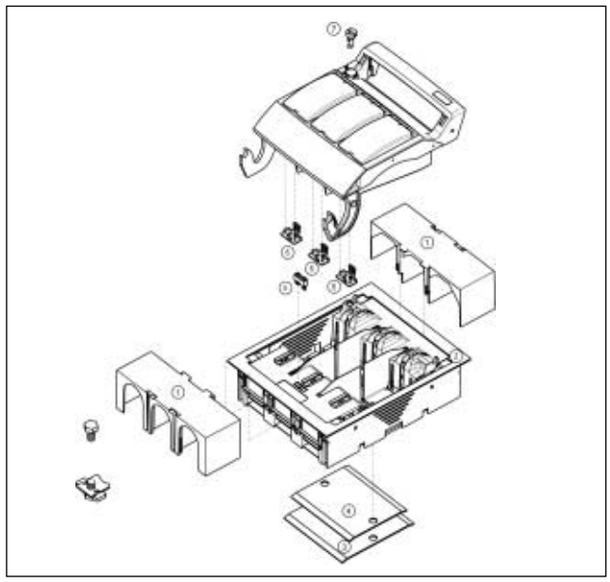
NH-fuse switch-disconnector, size 00, 160A 690V~, 3-pole, disconnector for mounting on plates

no.	designation	standard	option	accessory
	00 3-pole, terminal with screws M8	•		
	00 3-pole, terminal with clamps Cu 4-70mm²		•	
1	cable cover 3-pole			•
2	trim frame in distribution systems, 1 fold			•
3	DIN fixing, 125mm			•
4	DIN fixing, 150mm			•
5	Indicator for lid position			•
6	Window locking system against illegal connection			•
7	Sealing set			•
8	Screw M8			•
9	Clamp Cu 4 – 70mm²			•
10	terminal Al/Cu, 1,5 – 70mm², 95mm² se			•



NH fuse switch-disconnector, size 1, 250A 690V~, 3-pole, disconnector for mounting on plates

no.	designation	standard	option	accessory
	1 3-pole, terminal for 6 screws M10	•		
1	cable cover 3-pole			•
2	trim frame for mounting in distribution systems, 1 fold 205 x 250mm			•
3	DIN fixing for distance, 125mm			•
4	DIN fixing for distance, 150mm			•
5	Microswitch for lid			•
6	Window locking system against illegal connection			•
7	Sealing set			•



Switch-disconnector-fuses ITC for NH-Style fuses – front handle

size	rated current I_N (A)	no. of poles	FS ref.-no.	designation	weight in kg/pce	pack.unit
00	63	3	A209898	ITC 63D III 00	1,6	1
00	63	4	B209899	ITC 63D III+N 00	1,9	1
00	63	4	C209900	ITC 63D IV 00	1,9	1
00	160	3	S210788	ITC 160F III 00 CDE Front	1,9	1
00	160	4	T210789	ITC 160 III+N CDE Front	2,4	1
00	160	4	V210790	ITC 160 IV 00 CDE Front	2,4	1
DIN 1	250	3	Q207290	ITC 250D III T1	7	1
DIN 1	250	4	R207291	ITC 250D III+N T1	8	1
DIN 1	250	4	S207292	ITC 250D IV T1	8	1
DIN 2	400	3	T207293	ITC 400D III T2	8	1
DIN 2	400	4	V207294	ITC 400D III+N T2	9	1
DIN 2	400	4	W207295	ITC 400D IV T2	9	1
DIN 3	630	3	X207296	ITC 630D III T3	15,5	1
DIN 3	630	4	Y207297	ITC 630D III+N T3	19	1
DIN 3	630	4	Z207298	ITC 630D IV T3	19	1

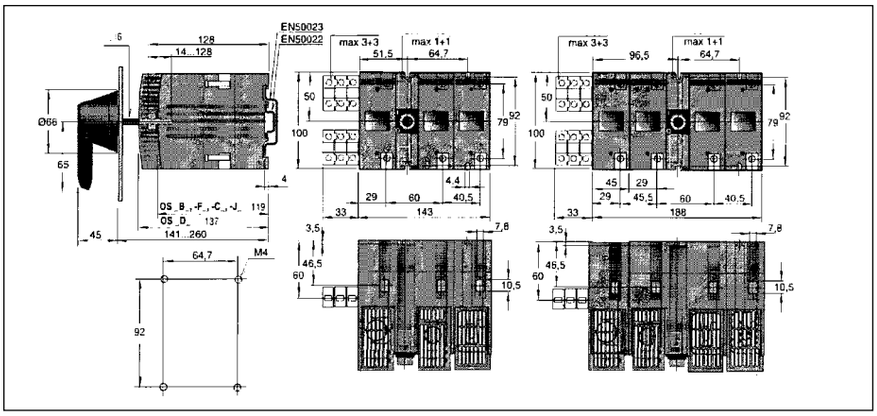
Switch-disconnector-fuses ITC for NH-Style fuses – side handle

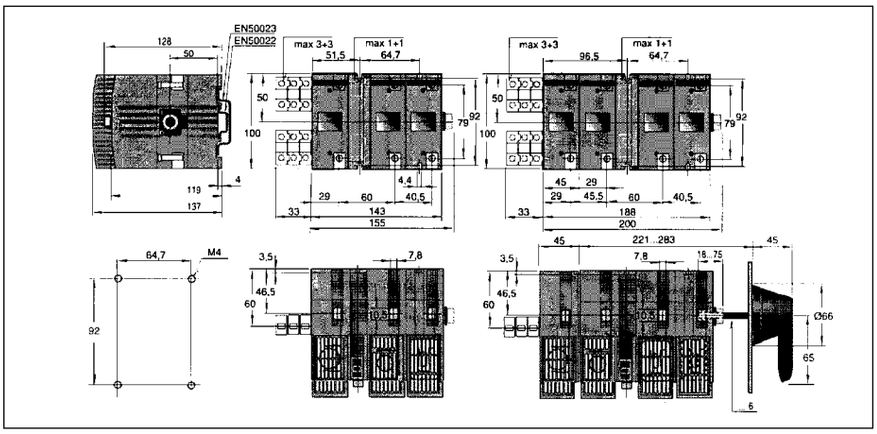
size	rated current I_N (A)	no. of poles	FS ref.-no.	designation	weight in kg/pce	pack.unit
00	63	3	F209903	ITC 63DM III 00 CDE LAT	1,6	1
00	63	4	G209904	ITC 63DM III+N 00 CDE LAT	1,9	1
00	63	4	H209905	ITC 63DM IV 00 CDE LAT	1,9	1
00	160	3	W210791	ITC 160M III 00 CDE LAT	1,9	1
00	160	4	Y210793	ITC 160M IV 00 CDE LAT	2,4	1
DIN 1	250	3	E208614	ITC 250DM III T1 CDE LAT	7	1
DIN 1	250	4	F208615	ITC 250DM III+N T1 CDE LAT	8	1
DIN 1	250	4	G208616	ITC 250DM IV T1 CDE LAT	8	1
DIN 2	400	3	H208617	ITC 400DM III T2 CDE LAT	8	1
DIN 2	400	4	J208618	ITC 400DM III+N T2 CDE LAT	9	1
DIN 2	400	4	K208619	ITC 400DM IV T2 CDE LAT	9	1

ITC are switch-disconnector-fuses in compliance with IEC/EN 60947-3. They have a snap-action mechanism which ensures rapide disconnection regardless of how fast the user turns the opening handle and are thus capable of switching inductive currents up to the operating category AC-23 and DC-23. At the same time they comply with the disconnection function and full fuses isolation because of dual interruption per phase.

ITC 63

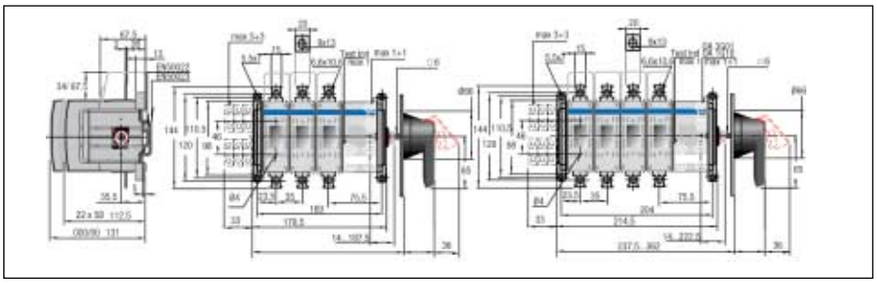
Terminal tightening torque: 4 to 6Nm
Switch tightening torque: 5 to 7Nm
Section of copper cables: 2,5 to 25mm²

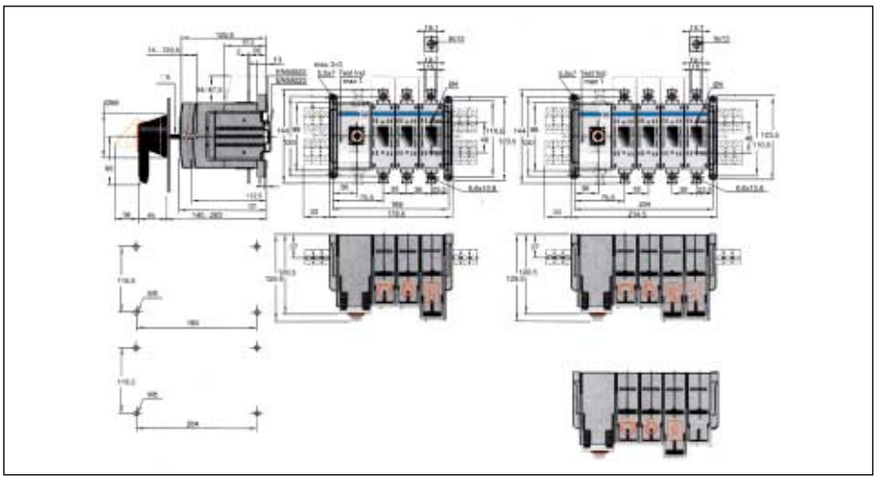




ITC 160

Terminal tightening torque: 15 to 22Nm
Connection: torque 20mm with M8 bolt
Switch tightening torque: 3 to 4Nm



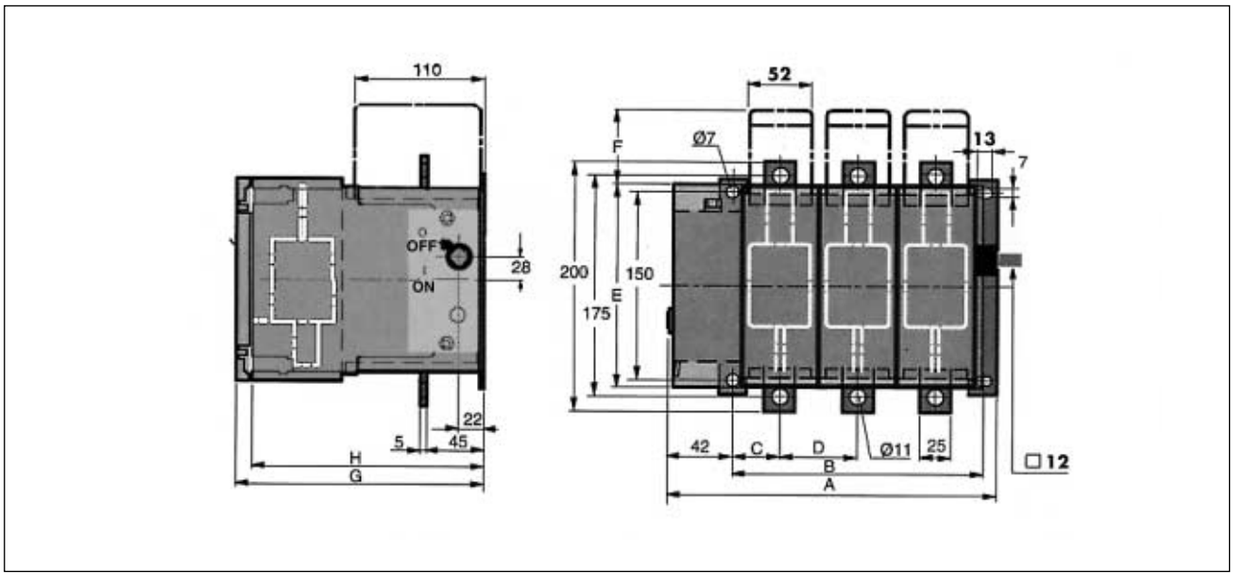


Note: Weights without accessories; tightening torques of switches depend on quality of bolts.

ITC 250/400

	III	III+N	IV
weight in kg	7/8	8/9	8/9
A	262/286	324/356	324/356
B	198/222	260/292	260/292
C	37/41	37/41	37/41
D	62/70	62/70	62/70
E	162/180	162/180	162/180
F	60/51	60/51	60/51
G	199/206	199/206	199/206
H	185/192	185/192	185/192

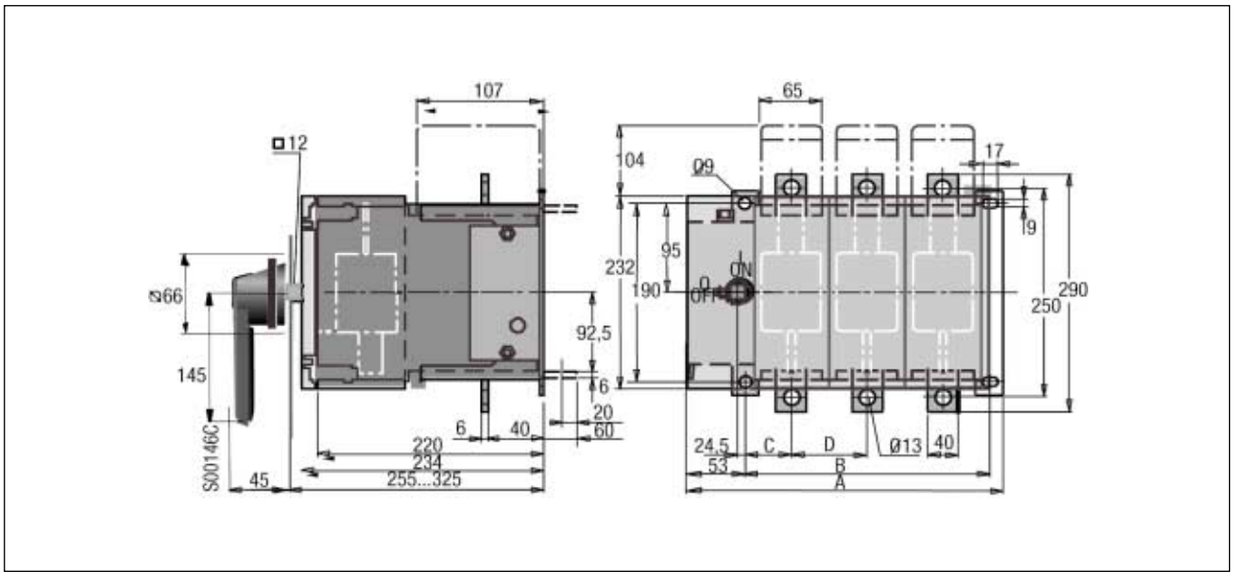
Terminal tightening torque: 30 to 44Nm
Connection: torque 25mm with M10 bolt
Switch tightening torque: 5 to 7Nm



ITC 630

	III	III+N	IV
weight in kg	15,5	19	19
A	343	423	423
B	278	358	358
C	59	59	59
D	80	80	80

Terminal tightening torque: 50/75Nm
Connection: torque 40mm with M12 bolt
Switch tightening torque: 5 to 7Nm



Note: Weights without accessories; tightening torques of switches depend on quality of bolts

Ferraz Shawmut

Switch-disconnector-fuses for NH-fuses
ITC 63-160-250-400-630A

Control:

side or front, padlockable,
in OFF-position by 3 padlocks,
safe and reliable indication of contact position,
on handles

Interruption:

Dual interruption per phase,
complete isolation of fuse in open circuit,
on-load opening and closing: AC 23 and DC 23,
interrupting power: 25kA A 50 kA,
isolation voltage: 1000V

Mechanism:

SNAP

Fixing:

on DIN rail ITC 63A and ITC 160A
on panel board ITC 63A and ITC 160A

Construction:

complying with IEC 947 1 & 3 and EN 60 947
protection index IP 2X
suitable for all climate types
silver-plated copper contacts
isolating partitions in material as per UL 94 V0
pre-isolating and blown-fuse indication accesssories

Main electrical characteristics

size				ITC 63A	ITC 160A	ITC 250A	ITC 400A	ITC 630A
rated operational current at ambient	40°C (1)	I_{th}		63	160	250	400	630
rated operational current under cover	40°C	I_{the}		63	160/135	230	360	570
rated insulation voltage (U_i), pollution class 3		V		1000	1000	1000	1000	1000
rated operational voltage AC-20 DC-20		V		1000	1000	1000	1000	1000
rated impulse withstand voltage		kV		12	12	12	12	12
fuse size		DIN		00/000	00/000	1	2	3
max. power dissipation /fuses at I_{th} (2)		W		7,5	12/10I_{the}	32/27I_{the}	45/37I_{the}	60/50I_{the}
RMS prospective short-circuit current with aM or gG								
class Ferraz Shawmut fuses		kA		50	100	100	100	100
fuse rating		A		63	160	250	400	630
permissible peak-through current		kA		14	14	35	35	60
rated operating current AC-21-A and AC-22-A	≤ 500V	A		63	160	250	400	630
	690V	A		63	160	250	400	630
rated operating current AC-23-A	≤ 500V	A		63	100	250	400	630
	690V	A		63*	160	250	400	630
rated operating power AC-23 in kW with a 3-phase	400V	kW		30	80	132	210	315
1500rpm standard asynchronous motor at	500V	kW		37	110	170	280	400
	690V	kW		60	132	230	330	540
AC-23 interrupting rating: Ic A at cosφ = 0,35	≤ 500V	A		504	800	2000	3200	5760
under rated operating voltage (U_e)	690V	A		504	800	2000	3200	5760
DC-23-A rating operating current/poles	110-220V	A		63/3	160/2	250/2	400/2	630/3
in series **for	400V	A		63/4*	125/4*	250/2	400/2	630/2
	500-750V	A		–	–	250/3	400/3	630/3
RMS permissible short duration (1.5) rated current		kA		2,5	5	8	10	16
mechanical endurance: operation cycles number								
(1 cycle = 1 opening + 1 closing of contacts)				10000	10000	8000	8000	5000
electrical endurance: operation cycles number	≤ 500V			–	1000	–	–	–
at I_e and cosφ 0.65	690V			–	–	1000	1000	1000
power dissipation per pole		W		4	9	11	30	55

(1) for ambient temperature 50°C: x 0.9 - 60°C: x 0.8; for horizontal fuse: x 0.9

(2) Value for the conventional thermal for current at ambient (I_{th}) and for current under cover (I_{the}), e.g.: box of protection

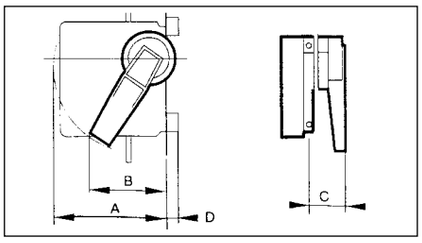
*) use in class B

**) to be achieved by user

Microswitches references and characteristics

FS ref.-no.	minimum of safe operation	maximum of operation in AC 12
single-standard microswitch and twin-standard microswitch		
H209882	24V AC/DC 25mA	690V 2A cos φ = 0,9
L207493	24V AC/DC 25mA	690V 2A cos φ = 0,9
S086588	24V AC/DC 25mA	690V 2A cos φ = 0,9
L097300	24V AC/DC 25mA	690V 2A cos φ = 0,9
single microswitch: aggressive atmosphere or connection with a programmable machine		
J208020	24V AC/DC 10mA	690V 2A cos φ = 0,9
single-standard microswitch		
Blown-fuse indicator microswitches	24V AC/DC 10mA	690V 2A cos φ = 0,9

Inside control handle bulk



Isolating padlockable inside front handle.

FS ref.-no.	switch model	A mm	B mm	C mm	D mm	weight in kg
E210109	ITC 63D	50	70	20	XX	0,15

Isolating padlockable inside side handle.

FS ref.-no.	switch model	A mm	B mm	C mm	D mm	weight in kg
T090936	ITC 250	202	170	100	30	1,2
T090936	ITC 400	202	170	100	30	1,2

Outside control handle bulk

Isolating padlockable outside cubicle front handle.

FS ref.-no.	switch model	A mm	B mm	C mm	D mm	L mm	◆ mm	weight in kg	Fig.
M209909	ITC 63D	–	–	45	–	80	6	0,1	1
black	ITC 160	–	–	45	–	80	6	0,1	1
N209910	ITC 63D	–	–	45	–	80	6	0,1	1
red-yellow	ITC 160	–	–	45	–	80	6	0,1	1
Q209912	ITC 250D	–	–	45	–	145	12	0,2	1
black	ITC 400D	–	–	45	–	145	12	0,2	1
	ITC 630D	–	–	45	–	145	12	0,2	1
R209913	ITC 250D	–	–	45	–	145	12	0,2	1
red-yellow	ITC 400D	–	–	45	–	145	12	0,2	1
	ITC 630D	–	–	45	–	145	12	0,2	1

Figure 1

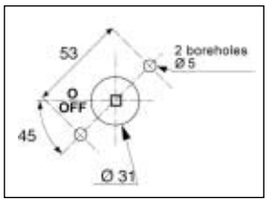
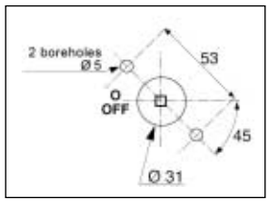


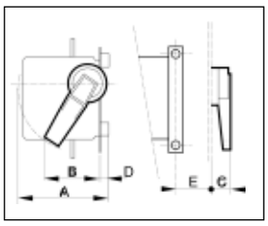
Figure 2

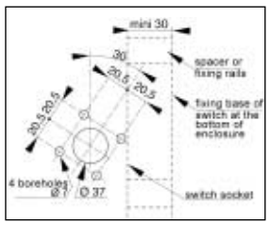


Isolating padlockable outside cubicle side handle.

FS ref.-no.	switch model	A mm	B mm	C mm	D mm	L mm	◆ mm	weight in kg	Fig.
D210085	ITC 63DS	–	–	45	–	80	6	0,1	2
black	ITC 160M	–	–	45	–	80	6	0,1	2
E210086	ITC 63DS	–	–	45	–	80	6	0,1	2
red-yellow	ITC 160M	–	–	45	–	80	6	0,1	2
Y090940	ITC 250DM	202	170	55	30	145	12	0,75	3
	ITC 400DM	202	170	55	30	145	12	0,75	3

Figure 3



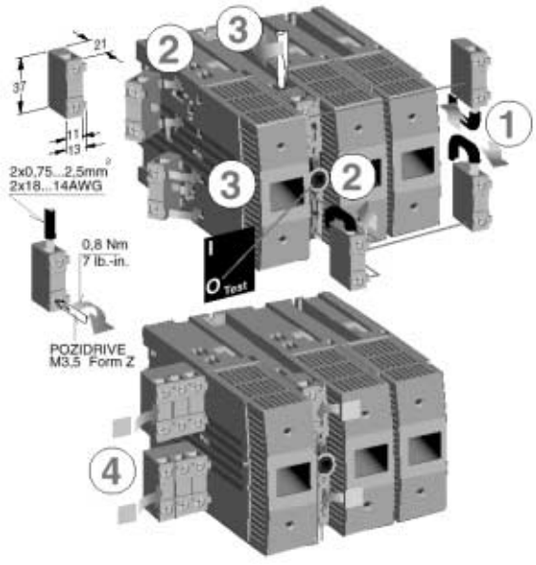


Accessories

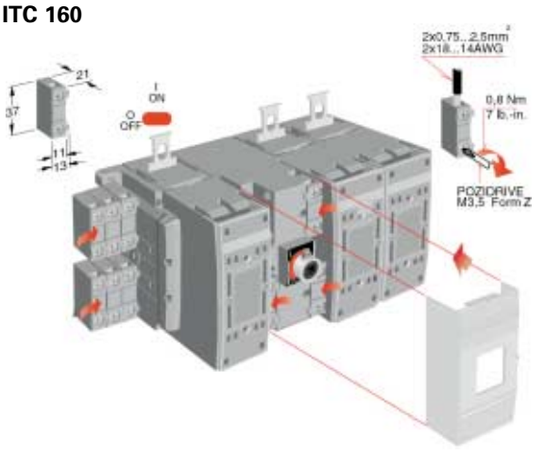
Pre-isolating microswitch **single microswitch** **1** One contact (NO) or (NC) **2** Reversing (NO/NC) **3** Single micro (NO/NC) **twin microswitch** **4** 2 reversing (NO/NC) **5** 2x2 single micro (NO/NC) **low voltage** **6** 2x2 single micro (NO/NC) Ref.-no.	finger safe protection One shroud per terminal Ref.-no.	finger safe protection Ref.-no.	Inside handle padlockable supplied with shaft. See bulk switches. Ref.-no.	Outside handle padlockable supplied with shaft. Distance between switch and handle. See control handle bulk. black (red and yellow) Ref.-no.	Axle extension The maximum distance between the handle and the machine is -60mm compare with the shaft length L Ref.-no.	Fuse size and current rating size	poles	Control
H209882 **1** (NC)* L207493 **1** (NO)*	built-in	built-in	E210109	M209909 (N209910)	B210106 (L = 290mm)	00 63A	III III+N IV	front handle
H209882 **1** (NC)* L207493 **1** (NO)*	N210807 (1/connection)	built-in	take the outside handle with a protection partition against fuses touching	M209909 (N209910)	C210107 (L = 430mm)	00 160A IV	III III+N	front handle
S086588 **3** L097300 **5** J208020 **6**	M096657 (1/connection)	G207305 H207306 H207306	take the outside handle with a protection partition against fuses touching	Q209912 (R209913)	L097093 (L = 395mm)	DIN1 250A IV	III III+N	front handle
S086588 **3** L097300 **5** J208020 **6**	M096657 (1/connection)	J207307 K207308 K207308	take the outside handle with a protection partition against fuses touching	Q209912 (R209913)	L097093 (L = 395mm)	DIN2 400A IV	III III+N	front handle
S086588 **3** L097300 **5** J208020 **6**	S095880 (1/connection)	L207309 M207310 M207310	take the outside handle with a protection partition against fuses touching	Q209912 (R209913)	L097093 (L = 395mm)	DIN3 630A IV	III III+N	front handle
H209882 **1** (NC)* L207493 **1** (NO)*	built-in	built-in	Take the outside front handle	D210085 (E210086)	B210106 (L = 290mm)	00 63A	III III+N IV	side handle
H209882 **1** (NC)* L207493 **1** (NO)*	N210807	built-in	Take the outside front handle	D210085 + E210454 (E210086 + E210454)	C210107 (L = 430mm)	00 160A	III III+N IV	side handle
S086588 **3** L097300 **5** J208020 **6**	M096657 (1/connection)	G207305 H207306 H207306	T090936 (red)	Y090940 (red)	P092979 (L = 465mm)	DIN1 250A	III III+N IV	side handle
S086588 **3** L097300 **5** J208020 **6**	M096657 (1/connection)	J207307 K207308 K207308	T090936 (red)	Y090940 (red)		DIN3 630A	III III+N IV	side handle

Mounting instructions

ITC 63

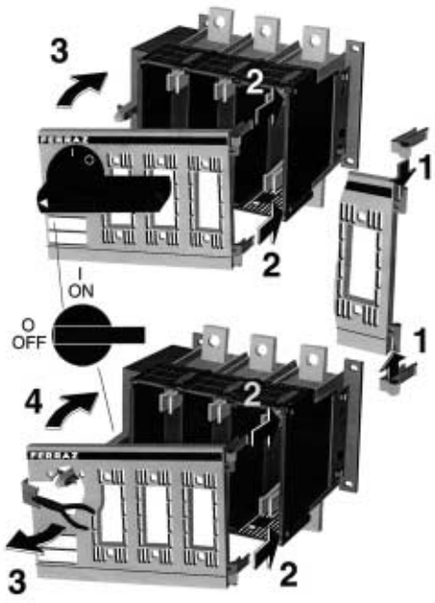


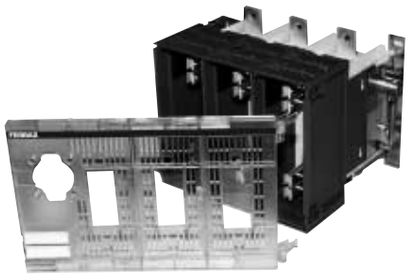
ITC 160



Mounting instructions

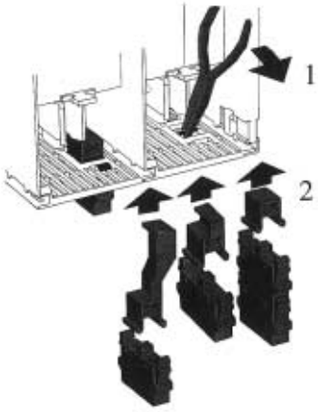
ITC 250D-630D





Pre-isolationg microswitch

Blown fuse microswitch



In 2004 we will start to change our reference-number system.

To give you a short view about these new catalog-numbers, we show some fuses, which are also listed in this documentation.

FS ref.-no.	Lindner ref.-no.	NEW catalog-No.
J200637	8014.1257	NH4AGG50V1250
K200638	1F639.	NH000GG50V25-1
M200801	1B135.	NH1GG50V16
N200802		NH2GG50V25
P200803	1B277.	NH2GG50V300
R200805	1F143.	NH1GG50V32-1
S200806		NH2GG50V40-1
T200807	1F283.	NH2GG50V400-1
V200808	1F765.	NH00GG50V125-1
D201184	8014.5007	NH4AGG50V500
E201185	1B639.	NH000GG50V25
G201187	1F645.	NH000GG50V35-1
J201189	1F663.	NH000GG50V100-1
C201344	1B137.	NH1GG50V20
D201345		NH2GG50V32
E201346	1B279.	NH2GG50V315
G201348	1F145.	NH1GG50V35-1
H201349	1F251.	NH2GG50V50-1
J201350	1F375.	NH3GG50V250-1
H201694	8004.1007	NH4GG50V1000
N201860	1B139.	NH1GG50V25
P201861	1B245.	NH2GG50V35
Q201862	1B281.	NH2GG50V355
R201863	1B765.	NH00GG50V125
T201865	1F255.	NH2GG50V63-1
W201867	1F769.	NH00GG50V160-1
T205752	8014.6307	NH4AGG50V630
N205770	1F619.	NH000GG50V4-1
L211081	1B143.	NH1GG50V32
M211082		NH2GG50V40
N211083	1B283.	NH2GG50V400
P211084	1B769.	NH00GG50V160
Q211085	1F147.	NH1GG50V40-1
S211087	1F377.	NH3GG50V300-1
Y211437	8014.8007	NH4AGG50V800
Z211438	1B643.	NH000GG50V32
A211600	1B145.	NH1GG50V35
B211601	1B251.	NH2GG50V50
C211602	1B375.	NH3GG50V250
D211603		NH0GG50V2-1
F211605	1F259.	NH2GG50V80-1
G211606	1F379.	NH3GG50V315-1
B211946	1B613.	NH000GG50V2
C211947	1B645.	NH000GG50V35
G212112		NH0GG50V2
K212115		NH0GG50V4-1
L212116	1F151.	NH1GG50V50-1
M212462	1B619.	NH000GG50V4
N212463	1B647.	NH000GG50V40
P212464	1F623.	NH000GG50V6-1
R212466	1F655.	NH000GG50V63-1
X212632		NH0GG50V4
Y212633	1B147.	NH1GG50V40
Z212634	1B255.	NH2GG50V63
A212635	1B377.	NH3GG50V300
B212636	1F023.	NH0GG50V6-1

FS ref.-no.	Lindner ref.-no.	NEW catalog-No.
E212639	1F381.	NH3GG50V355-1
T212974	1B651.	NH000GG50V50
T212997	8008.100005	NH4AGTR100KVA
H213148	1B023.	NH0GG50V6
L213151	1B379.	NH3GG50V315
M213152	1F031.	NH0GG50V10-1
N213153	1F155.	NH1GG50V63-1
P213154	1F263.	NH2GG50V100-1
D213489	1F643.	NH000GG50V32-1
Y213507	8008.125005	NH4AGTR125KVA
B213648	1B151.	NH1GG50V50
C213649	1B259.	NH2GG50V80
E213651	1F035.	NH0GG50V16-1
H213654	1F383.	NH3GG50V400-1
C213994	8004.1257	NH4GG50V1250
D213995	1B623.	NH000GG50V6
E213996	1B655.	NH000GG50V63
F213997	1F635.	NH000GG50V16-1
N214004	8004.400765	NH4GG69V400
Z214014	8008.160005	NH4AGTR160KVA
G214159	1B031.	NH0GG50V10
K214162	1B381.	NH3GG50V355
L214163	1F037.	NH0GG50V20-1
M214164	1F159.	NH1GG50V80-1
N214165	1F265.	NH2GG50V125-1
C214523	8008.200005	NH4AGTR200KVA
L214669	1B155.	NH1GG50V63
M214670	1B263.	NH2GG50V100
P214672	1F039.	NH0GG50V25-1
S214675	1F385.	NH3GG50V425-1
N215016	1F659.	NH000GG50V80-1
Y215025	8004.500765	NH4GG69V500
F215032	8008.250005	NH4AGTR250KVA
Q215179	1B035.	NH0GG50V16
T215182	1B383.	NH3GG50V400
V215183	1F043.	NH0GG50V32-1
W215184	1F163.	NH1GG50V100-1
X215185	1F269.	NH2GG50V160-1
V215528	1F631.	NH000GG50V10-1
E215537	8004.630765	NH4GG69V630
M215544	8008.315005	NH4AGTR315KVA
R215686	1B037.	NH0GG50V20
S215687	1B159.	NH1GG50V80
T215688	1B265.	NH2GG50V125
W215690	1F045.	NH0GG50V35-1
Z215693	1F386.	NH3GG50V450-1
A216039	8004.4007	NH4GG50V400
S216055	8008.400005	NH4AGTR400KVA
Y216198	1B039.	NH0GG50V25
B216201	1B385.	NH3GG50V425
C216202	1F047.	NH0GG50V40-1
D216203	1F165.	NH1GG50V125-1
E216204	1F271.	NH2GG50V200-1
F216205	1F387.	NH3GG50V500-1
X216542	8004.5007	NH4GG50V500
Y216543	1B659.	NH000GG50V80

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K216554	8004.800765	NH4GG69V800
V216563	8008.500005	NH4AGTR500KVA
W216702	1B043.	NH0GG50V32
X216703	1B163.	NH1GG50V100
Y216704	1B269.	NH2GG50V160
Z216705	1B386.	NH3GG50V450
A216706	1F051.	NH0GG50V50-1
B216707	1F169.	NH1GG50V160-1
D216709	1F389.	NH3GG50V630-1
W217070	8014.400765	NH4AGG69V400
E217078	8008.630005	NH4AGTR630KVA
J217220	1B045.	NH0GG50V35
M217223	1B387.	NH3GG50V500
N217224	1F055.	NH0GG50V63-1
P217225	1F171.	NH1GG50V200-1
Q217226	1F273.	NH2GG50V224-1
R217227	1F739.	NH00GG50V25-1
W217576	8004.6307	NH4GG50V630
H217587	8014.500765	NH4AGG69V500
R217595	8008.800005	NH4AGTR800KVA
P217731	1B047.	NH0GG50V40
Q217732	1B165.	NH1GG50V125
R217733	1B271.	NH2GG50V200
S217734	1B389.	NH3GG50V630
T217735	1F059.	NH0GG50V80-1
V217736	1F173.	NH1GG50V224-1
X217738	1F743.	NH00GG50V32-1
E218090	8004.8007	NH4GG50V800
F218091	1F637.	NH000GG50V20-1
Z218246	1B051.	NH0GG50V50
A218247	1B169.	NH1GG50V160
D218250	1F063.	NH0GG50V100-1
E218251	1F175.	NH1GG50V250-1
F218252	1F275.	NH2GG50V250-1
G218253	1F745.	NH00GG50V35-1
N218765	1B055.	NH0GG50V63
P218766	1B171.	NH1GG50V200
Q218767	1B273.	NH2GG50V224
S218769	1F065.	NH0GG50V125-1
T218770		NH2GG50V16-1
W218772	1F747.	NH00GG50V40-1
B219122	1B663.	NH000GG50V100
S219137	8004.100505	NH4AM50V1000
C219284	1B059.	NH0GG50V80
D219285	1B173.	NH1GG50V224
F219287	1F069.	NH0GG50V160-1
G219288		NH2GG50V20-1
H219289	1F277.	NH2GG50V300-1
J219290	1F751.	NH00GG50V50-1
A219650	8014.1007	NH4AGG50V1000
B219651	1B631.	NH000GG50V10
C219652	1F613.	NH000GG50V2-1
D219653	1F647.	NH000GG50V40-1
V219668	8004.125505	NH4AM50V1250
D219814	1B063.	NH0GG50V100
E219815	1B175.	NH1GG50V250
H219818	1F135.	NH1GG50V16-1
J219819		NH2GG50V25-1
K219820	1F279.	NH2GG50V315-1
L219821	1F755.	NH00GG50V63-1
K222097	1B635.	NH000GG50V16
W222107	8014.630765	NH4AGG69V630

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E222115	8004.630505	NH4AM50V630
P222492	1B065.	NH0GG50V125
Q222493		NH2GG50V16
R222494	1B275.	NH2GG50V250
T222496	1F137.	NH1GG50V20-1
V222497		NH2GG50V32-1
W222498	1F759.	NH00GG50V80-1
A222847	1B637.	NH000GG50V20
C222849	1F651.	NH000GG50V50-1
M222858	8014.800765	NH4AGG69V800
V222865	8004.800505	NH4AM50V800
F223013	1B069.	NH0GG50V160
G223014		NH2GG50V20
J223016	1B755.	NH00GG50V63
K223017	1F139.	NH1GG50V25-1
L223018	1F245.	NH2GG50V35-1
M223019	1F281.	NH2GG50V355-1
N223020	1F763.	NH00GG50V100-1
Z223674	1A613.	NH000GG40V2
A223675	1A619.	NH000GG40V4
B223676	1A623.	NH000GG40V6
C223677	1A631.	NH000GG40V10
D223678	1A635.	NH000GG40V16
E223679	1A637.	NH000GG40V20
F223680	1A639.	NH000GG40V25
G223681	1A643.	NH000GG40V32
H223682	1A645.	NH000GG40V35
J223683	1A647.	NH000GG40V45
K223684	1A651.	NH000GG40V50
L223685	1A655.	NH000GG40V63
M223686	1A659.	NH000GG40V80
N223687	1A663.	NH000GG40V100
P223688	1E613.	NH000GG40V2-1
Q223689	1E619.	NH000GG40V4-1
R223690	1E623.	NH000GG40V6-1
S223691	1E631.	NH000GG40V10-1
T223692	1E635.	NH000GG40V16-1
V223693	1E637.	NH000GG40V20-1
W223694	1E639.	NH000GG40V25-1
X223695	1E643.	NH000GG40V32-1
Y223696	1E645.	NH000GG40V35-1
Z223697	1E647.	NH000GG40V40-1
A223698	1E651.	NH000GG40V50-1
B223699	1E655.	NH000GG40V63-1
C223700	1E659.	NH000GG40V80-1
D223701	1E663.	NH000GG40V100-1
E223702	1A765.	NH00GG40V125
F223703	1A769.	NH00GG40V160
G223704	1E765.	NH00GG40V125-1
H223705	1E769.	NH00GG40V160-1
J223706	1A145.	NH1GG40V35
K223707	1A151.	NH1GG40V50
L223708	1A155.	NH1GG40V63
M223709	1A159.	NH1GG40V80
N223710	1A163.	NH1GG40V100
P223711	1A165.	NH1GG40V125
Q223712	1A169.	NH1GG40V160
R223713	1A171.	NH1GG40V200
S223714	1A173.	NH1GG40V224
T223715	1A175.	NH1GG40V250
V223716	1E145.	NH1GG40V35-1
W223717	1E151.	NH1GG40V50-1

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X223718	1E155.	NH1GG40V63-1
Y223719	1E159.	NH1GG40V80-1
Z223720	1E163.	NH1GG40V100-1
A223721	1E165.	NH1GG40V125-1
B223722	1E169.	NH1GG40V160-1
C223723	1E171.	NH1GG40V200-1
D223724	1E173.	NH1GG40V224-1
E223725	1E175.	NH1GG40V250-1
F223726	1A259.	NH2GG40V80
G223727	1A263.	NH2GG40V100
H223728	1A265.	NH2GG40V125
J223729	1A269.	NH2GG40V160
K223730	1A271.	NH2GG40V200
L223731	1A273.	NH2GG40V224
M223732	1A275.	NH2GG40V250
N223733	1A279.	NH2GG40V315
P223734	1A281.	NH2GG40V355
Q223735	1A283.	NH2GG40V400
R223736	1A375.	NH3GG40V250
S223737	1A379.	NH3GG40V315
T223738	1A383.	NH3GG40V400
V223739	1A387.	NH3GG40V500
W223740	1A389.	NH3GG40V630
X223741	1E259.	NH2GG40V80-1
Y223742	1E263.	NH2GG40V100-1
Z223743	1E265.	NH2GG40V125-1
A223744	1E269.	NH2GG40V160-1
B223745	1E271.	NH2GG40V200-1
C223746	1E273.	NH2GG40V224-1
D223747	1E275.	NH2GG40V250-1
E223748	1E279.	NH2GG40V315-1
F223749	1E281.	NH2GG40V355-1
G223750	1E283.	NH2GG40V400-1
H223751	1E375.	NH3GG40V250-1
J223752	1E379.	NH3GG40V315-1
K223753	1E383.	NH3GG40V400-1
L223754	1E387.	NH3GG40V500-1
M223755	1E389.	NH3GG40V630-1
Z226020	1A271.2	NH-2GG40V200
A226021	1A273.2	NH-2GG40V224
B226022	1A275.2	NH-2GG40V250
G226188	1B377.2	NH3GG50V300
L227250	1E245.	NH2GG40V35-1
M227251	1E251.	NH2GG40V50-1
N227252	1E255.	NH2GG40V63-1
T227257	1A245.	NH2GG40V35
V227258	1A251.	NH2GG40V50
W227259	1A255.	NH2GG40V63
P227851	2C613.	NH000AM69V2-1
Q227852	2C619.	NH000AM69V4-1
R227853	2C623.	NH000AM69V6-1
S227854	2C631.	NH000AM69V10-1
T227855	2C635.	NH000AM69V16-1
V227856	2C637.	NH000AM69V20-1
W227857	2C639.	NH000AM69V25-1
X227858	2C643.	NH000AM69V32-1
Y227859	2C645.	NH000AM69V35-1
Z227860	2C647.	NH000AM69V40-1
A227861	2C651.	NH000AM69V50-1
B227862	2C655.	NH000AM69V63-1
C227863	2B659.	NH000AM50V80
D227864	2C751.	NH00AM69V50-1

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E227865	2C755.	NH00AM69V63-1
F227866	2C759.	NH00AM69V80-1
G227867	2C763.	NH00AM69V100-1
H227868	2C765.	NH00AM69V125-1
J227869	2B769.	NH00AM50V160
K227870	2C023.	NH0AM69V6-1
L227871	2C031.	NH0AM69V10-1
M227872	2C035.	NH0AM69V16-1
N227873	2C037.	NH0AM69V20-1
P227874	2C039.	NH0AM69V25-1
Q227875	2C043.	NH0AM69V32-1
R227876	2C045.	NH0AM69V35-1
S227877	2C047.	NH0AM69V40-1
T227878	2C051.	NH0AM69V50-1
V227879	2C055.	NH0AM69V63-1
W227880	2C059.	NH0AM69V80-1
X227881	2C063.	NH0AM69V100-1
Y227882	2C065.	NH0AM69V125-1
Z227883	2C069.	NH0AM69V160-1
A227884	2B071.	NH0AM50V200
B227885	2C135.	NH1AM69V16-1
C227886	2C137.	NH1AM69V20-1
D227887	2C139.	NH1AM69V25-1
E227888	2C143.	NH1AM69V32-1
F227889	2C145.	NH1AM69V35-1
G227890	2C147.	NH1AM69V40-1
H227891	2C151.	NH1AM69V50-1
J227892	2C155.	NH1AM69V63-1
K227893	2C159.	NH1AM69V80-1
L227894	2C163.	NH1AM69V100-1
M227895	2C165.	NH1AM69V125-1
N227896	2C169.	NH1AM69V160-1
P227897	2C171.	NH1AM69V200-1
Q227898	2C173.	NH1AM69V224-1
R227899	2C175.	NH1AM69V250-1
K227962	2B179.	NH1AM50V315
L227963	2C245.	NH2AM69V35-1
M227964	2C247.	NH2AM69V40-1
N227965	2C251.	NH2AM69V50-1
P227966	2C255.	NH2AM69V63-1
Q227967	2C259.	NH2AM69V80-1
R227968	2C263.	NH2AM69V100-1
S227969	2C265.	NH2AM69V125-1
T227970	2C269.	NH2AM69V160-1
V227971	2C271.	NH2AM69V200-1
W227972	2C273.	NH2AM69V224-1
X227973	2C275.	NH2AM69V250-1
Y227974	2C277.	NH2AM69V300-1
Z227975	2C279.	NH2AM69V315-1
A227976	2C281.	NH2AM69V355-1
B227977	2C283.	NH2AM69V400-1
C227978	2B287.	NH2AM50V500
D227979	2C375.	NH3AM69V250-1
E227980	2C377.	NH3AM69V300-1
F227981	2C379.	NH3AM69V315-1
G227982	2C381.	NH3AM69V355-1
H227983	2C383.	NH3AM69V400-1
J227984	2C385.	NH3AM69V425-1
K227985	2C386.	NH3AM69V450-1
L227986	2C387.	NH3AM69V500-1
M227987	2B389.	NH3AM50V630
Q227990	8004.40056	NH4AM69V400-1

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R227991	8004.50056	NH4AM69V500-1
S227992	8004.63056	NH4AM69V630-1
T227993	8004.80056	NH4AM69V800-1
V227994	8004.10056	NH4AM69V1000-1
W227995		NH4AM69V1250-1
X227996	8014.50056	NH4AAM69V500-1
Y227997	8014.63056	NH4AAM69V630-1
A227999	8014.80056	NH4AAM69V800-1
B228000	8014.10056	NH4AAM69V1000-1
C228001		NH4AAM69V1250-1
E228440	1C613.	NH000GG69V2
F228441	1C619.	NH000GG69V4
G228442	1C623.	NH000GG69V6
H228443		NH000GG69V8
J228444	1C631.	NH000GG69V10
K228445	1C635.	NH000GG69V16
L228446	1C637.	NH000GG69V20
M228447	1C639.	NH000GG69V25
N228448	1C643.	NH000GG69V32
P228449	1C645.	NH000GG69V35
Q228450	1C647.	NH000GG69V40
R228451	1C651.	NH000GG69V50
S228452	1C655.	NH000GG69V63
T228453	1C659.	NH000GG69V80
V228454		NH00GG69V32
W228455		NH00GG69V35
X228456		NH00GG69V40
Y228457		NH00GG69V50
Z228458		NH00GG69V63
A228459		NH00GG69V80
B228460	1C763.	NH00GG69V100
C228461	1C765.	NH00GG69V125
D228462	1C023.	NH0GG69V6
E228463	1C031.	NH0GG69V10
F228464	1C035.	NH0GG69V16
G228465	1C037.	NH0GG69V20
H228466	1C039.	NH0GG69V25
J228467	1C043.	NH0GG69V32
K228468	1C045.	NH0GG69V35
L228469	1C047.	NH0GG69V40
M228470	1C051.	NH0GG69V50
N228471	1C055.	NH0GG69V63
P228472	1C059.	NH0GG69V80
Q228473	1C063.	NH0GG69V100
R228474	1C065.	NH0GG69V125
S228475	1C069.	NH0GG69V160
T228476	1C135.	NH1GG69V16
V228477	1C137.	NH1GG69V20
W228478	1C139.	NH1GG69V25
X228479	1C143.	NH1GG69V32
Y228480	1C145.	NH1GG69V35
Z228481	1C147.	NH1GG69V40
A228482	1C151.	NH1GG69V50
B228483	1C155.	NH1GG69V63
C228484	1C159.	NH1GG69V80
D228485	1C163.	NH1GG69V100
E228486	1C165.	NH1GG69V125
F228487	1C169.	NH1GG69V160
G228488	1C171.	NH1GG69V200
H228489	1C243.	NH2GG69V32
J228490	1C245.	NH2GG69V35
K228491	1C247.	NH2GG69V40

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L228492	1C251.	NH2GG69V50
M228493	1C255.	NH2GG69V63
N228494	1C259.	NH2GG69V80
P228495	1C263.	NH2GG69V100
Q228496	1C265.	NH2GG69V125
R228497	1C269.	NH2GG69V160
S228498	1C271.	NH2GG69V200
T228499	1C273.	NH2GG69V224
V228500	1C275.	NH2GG69V250
W228501	1C277.	NH2GG69V300
X228502	1C279.	NH2GG69V315
Y228503	1C281.	NH2GG69V355
Z228504	1C375.	NH3GG69V250
A228505	1C377.	NH3GG69V300
B228506	1C379.	NH3GG69V315
C228507	1C381.	NH3GG69V355
D228508	1C383.	NH3GG69V400
E228509	1C385.	NH3GG69V425
F228510	1C387.	NH3GG69V500
Q228519		NH1GG50V315
R228520		NH1GG50V355
S228521	1B285.	NH2GG50V425
T228522		NH2GG50V500
V228523		NH3GG50V800
C229611	1B071.	NH0GG50V200
D229612	1B073.	NH0GG50V224
E229613	1B075.	NH0GG50V250
D229704	1G613.	NH000GG69V2-1
E229705	1G619.	NH000GG69V4-1
F229706	1G623.	NH000GG69V6-1
G229707		NH000GG69V8-1
H229708	1G631.	NH000GG69V10-1
J229709	1G635.	NH000GG69V16-1
K229710	1G637.	NH000GG69V20-1
L229711	1G639.	NH000GG69V25-1
M229712	1G643.	NH000GG69V32-1
N229713	1G645.	NH000GG69V35-1
P229714	1G647.	NH000GG69V40-1
Q229715	1G651.	NH000GG69V50-1
R229716	1G655.	NH000GG69V63-1
S229717	1G659.	NH000GG69V80-1
T229718		NH00GG69V32-1
V229719		NH00GG69V35-1
W229720		NH00GG69V40-1
X229721		NH00GG69V50-1
Y229722		NH00GG69V63-1
Z229723		NH00GG69V80-1
A229724	1G763.	NH00GG69V100-1
B229725	1G765.	NH00GG69V125-1
C229726	1G023.	NH0GG69V6-1
D229727	1G031.	NH0GG69V10-1
E229728	1G035.	NH0GG69V16-1
F229729	1G037.	NH0GG69V20-1
G229730	1G039.	NH0GG69V25-1
H229731	1G043.	NH0GG69V32-1
J229732	1G045.	NH0GG69V35-1
K229733	1G047.	NH0GG69V40-1
L229734	1G051.	NH0GG69V50-1
M229735	1G055.	NH0GG69V63-1
N229736	1G059.	NH0GG69V80-1
P229737	1G063.	NH0GG69V100-1
Q229738	1G065.	NH0GG69V125-1

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R229739	1G069.	NH0GG69V160-1
S229740	1G135.	NH1GG69V16-1
T229741	1G137.	NH1GG69V20-1
V229742	1G139.	NH1GG69V25-1
W229743	1G143.	NH1GG69V32-1
X229744	1G145.	NH1GG69V35-1
Y229745	1G147.	NH1GG69V40-1
Z229746	1G151.	NH1GG69V50-1
A229747	1G155.	NH1GG69V63-1
B229748	1G159.	NH1GG69V80-1
C229749	1G163.	NH1GG69V100-1
D229750	1G165.	NH1GG69V125-1
E229751	1G169.	NH1GG69V160-1
F229752	1G171.	NH1GG69V200-1
G229753		NH1GG69V224-1
J229755	1G243.	NH2GG69V32-1
K229756	1G245.	NH2GG69V35-1
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R229762	1G265.	NH2GG69V125-1
S229763	1G269.	NH2GG69V160-1
T229764	1G271.	NH2GG69V200-1
V229765	1G273.	NH2GG69V224-1
W229766	1G275.	NH2GG69V250-1
X229767	1G277.	NH2GG69V300-1
Y229768	1G279.	NH2GG69V315-1
Z229769	1G281.	NH2GG69V355-1
A229770	1G375.	NH3GG69V250-1
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C229772	1G379.	NH3GG69V315-1
D229773	1G381.	NH3GG69V355-1
E229774	1G383.	NH3GG69V400-1
F229775	1G385.	NH3GG69V425-1
K232493	2B613.	NH000AM50V2
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N232496	2B631.	NH000AM50V10
P232497	2B635.	NH000AM50V16
Q232498	2B637.	NH000AM50V20
R232499	2B639.	NH000AM50V25
S232500	2B643.	NH000AM50V32
T232501	2B645.	NH000AM50V35
V232502	2B647.	NH000AM50V40
W232503	2B651.	NH000AM50V50
X232504	2B655.	NH000AM50V63
Y232505	2B763.	NH00AM50V100
Z232506	2B765.	NH00AM50V125
A232507	2B063.	NH0AM50V100
B232508	2B065.	NH0AM50V125
C232509	2B069.	NH0AM50V160
D232510	2B163.	NH1AM50V100
E232511	2B165.	NH1AM50V125
F232512	2B169.	NH1AM50V160
G232513	2B171.	NH1AM50V200
H232514	2B173.	NH1AM50V224
J232515	2B175.	NH1AM50V250
K232516	2B275.	NH2AM50V250
L232517	2B279.	NH2AM50V315
M232518	2B281.	NH2AM50V355

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N232519	2B283.	NH2AM50V400
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Q232521	2B381.	NH3AM50V355
R232522	2B383.	NH3AM50V400
S232523	2B385.	NH3AM50V425
T232524	2B386.	NH3AM50V450
V232525	2B387.	NH3AM50V500
B232807	5B263.	NH2GTR100KVA
C232808	5B265.	NH2GTR125KVA
D232809	5B269.	NH2GTR160KVA
E232810	5B271.	NH2GTR200KVA
F232811	5B275.	NH2GTR250KVA
G232812	5B257.	NH2GTR75KVA
H232813	5B251.	NH2GTR50KVA
J232814	5B375.	NH3GTR250KVA
K232815	5B379.	NH3GTR315KVA
L232816	5B383.	NH3GTR400KVA
M232817		NH3GTR500KVA
N232818		NH3GTR630KVA
V233261		NH1GG69V224
W233262		NH1GG69V250
P233555	8004.400505	NH4AM50V400
Q233556	8004.500505	NH4AM50V500
R233557	8014.500505	NH4AAM50V500
S233558	8014.630505	NH4AAM50V630
T233559	8014.800505	NH4AAM50V800
V233560	8014.100505	NH4AAM50V1000
W233561	8014.125505	NH4AAM50V1250

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8004.125505	V219668	NH4AM50V1250
8004.1257	C213994	NH4GG50V1250
8004.400505	P233555	NH4AM50V400
8004.40056	Q227990	NH4AM69V400-1
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8004.400765	N214004	NH4GG69V400
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8004.630505	E222115	NH4AM50V630
8004.63056	S227992	NH4AM69V630-1
8004.6307	W217576	NH4GG50V630
8004.630765	E215537	NH4GG69V630
8004.800505	V222865	NH4AM50V800
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8008.200005	C214523	NH4AGTR200KVA
8008.250005	F215032	NH4AGTR250KVA
8008.315005	M215544	NH4AGTR315KVA
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8008.500005	V216563	NH4AGTR500KVA
8008.630005	E217078	NH4AGTR630KVA
8008.800005	R217595	NH4AGTR800KVA
8014.100505	V233560	NH4AAM50V1000
8014.10056	B228000	NH4AAM69V1000-1
8014.1007	A219650	NH4AGG50V1000
8014.125505	W233561	NH4AAM50V1250
8014.1257	J200637	NH4AGG50V1250
8014.400765	W217070	NH4AGG69V400
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8014.500765	H217587	NH4AGG69V500
8014.630505	S233558	NH4AAM50V630
8014.63056	Y227997	NH4AAM69V630-1
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1A145.	J223706	NH1GG40V35
1A151.	K223707	NH1GG40V50
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1A159.	M223709	NH1GG40V80
1A163.	N223710	NH1GG40V100
1A165.	P223711	NH1GG40V125
1A169.	Q223712	NH1GG40V160
1A171.	R223713	NH1GG40V200
1A173.	S223714	NH1GG40V224
1A175.	T223715	NH1GG40V250
1A245.	T227257	NH2GG40V35
1A251.	V227258	NH2GG40V50
1A255.	W227259	NH2GG40V63

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1A271.	K223730	NH2GG40V200
1A271.2	Z226020	NH-2GG40V200
1A273.	L223731	NH2GG40V224
1A273.2	A226021	NH-2GG40V224
1A275.	M223732	NH2GG40V250
1A275.2	B226022	NH-2GG40V250
1A279.	N223733	NH2GG40V315
1A281.	P223734	NH2GG40V355
1A283.	Q223735	NH2GG40V400
1A375.	R223736	NH3GG40V250
1A379.	S223737	NH3GG40V315
1A383.	T223738	NH3GG40V400
1A387.	V223739	NH3GG40V500
1A389.	W223740	NH3GG40V630
1A613.	Z223674	NH000GG40V2
1A619.	A223675	NH000GG40V4
1A623.	B223676	NH000GG40V6
1A631.	C223677	NH000GG40V10
1A635.	D223678	NH000GG40V16
1A637.	E223679	NH000GG40V20
1A639.	F223680	NH000GG40V25
1A643.	G223681	NH000GG40V32
1A645.	H223682	NH000GG40V35
1A647.	J223683	NH000GG40V45
1A651.	K223684	NH000GG40V50
1A655.	L223685	NH000GG40V63
1A659.	M223686	NH000GG40V80
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1B071.	C229611	NH0GG50V200
1B073.	D229612	NH0GG50V224
1B075.	E229613	NH0GG50V250
1B135.	M200801	NH1GG50V16
1B137.	C201344	NH1GG50V20
1B139.	N201860	NH1GG50V25
1B143.	L211081	NH1GG50V32
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1B147.	Y212633	NH1GG50V40
1B151.	B213648	NH1GG50V50
1B155.	L214669	NH1GG50V63
1B159.	S215687	NH1GG50V80
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1B245.	P201861	NH2GG50V35
1B251.	B211601	NH2GG50V50
1B255.	Z212634	NH2GG50V63
1B259.	C213649	NH2GG50V80
1B263.	M214670	NH2GG50V100
1B265.	T215688	NH2GG50V125
1B269.	Y216704	NH2GG50V160
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1B275.	R222494	NH2GG50V250
1B277.	P200803	NH2GG50V300
1B279.	E201346	NH2GG50V315
1B281.	Q201862	NH2GG50V355
1B283.	N211083	NH2GG50V400
1B285.	S228521	NH2GG50V425
1B375.	C211602	NH3GG50V250
1B377.	A212635	NH3GG50V300
1B377.2	G226188	NH3GG50V300
1B379.	L213151	NH3GG50V315
1B381.	K214162	NH3GG50V355
1B383.	T215182	NH3GG50V400
1B385.	B216201	NH3GG50V425
1B386.	Z216705	NH3GG50V450
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1B389.	S217734	NH3GG50V630
1B613.	B211946	NH000GG50V2
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1B639.	E201185	NH000GG50V25
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1B645.	C211947	NH000GG50V35
1B647.	N212463	NH000GG50V40
1B651.	T212974	NH000GG50V50
1B655.	E213996	NH000GG50V63
1B659.	Y216543	NH000GG50V80
1B663.	B219122	NH000GG50V100
1B755.	J223016	NH00GG50V63
1B765.	R201863	NH00GG50V125
1B769.	P211084	NH00GG50V160
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1C031.	E228463	NH0GG69V10
1C035.	F228464	NH0GG69V16
1C037.	G228465	NH0GG69V20
1C039.	H228466	NH0GG69V25
1C043.	J228467	NH0GG69V32
1C045.	K228468	NH0GG69V35
1C047.	L228469	NH0GG69V40
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1C055.	N228471	NH0GG69V63
1C059.	P228472	NH0GG69V80
1C063.	Q228473	NH0GG69V100
1C065.	R228474	NH0GG69V125
1C069.	S228475	NH0GG69V160
1C135.	T228476	NH1GG69V16
1C137.	V228477	NH1GG69V20

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1C139.	W228478	NH1GG69V25
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1C147.	Z228481	NH1GG69V40
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1C155.	B228483	NH1GG69V63
1C159.	C228484	NH1GG69V80
1C163.	D228485	NH1GG69V100
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1C171.	G228488	NH1GG69V200
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1C251.	L228492	NH2GG69V50
1C255.	M228493	NH2GG69V63
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1C265.	Q228496	NH2GG69V125
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1C281.	Y228503	NH2GG69V355
1C375.	Z228504	NH3GG69V250
1C377.	A228505	NH3GG69V300
1C379.	B228506	NH3GG69V315
1C381.	C228507	NH3GG69V355
1C383.	D228508	NH3GG69V400
1C385.	E228509	NH3GG69V425
1C387.	F228510	NH3GG69V500
1C613.	E228440	NH000GG69V2
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1C623.	G228442	NH000GG69V6
1C631.	J228444	NH000GG69V10
1C635.	K228445	NH000GG69V16
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1C639.	M228447	NH000GG69V25
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1C645.	P228449	NH000GG69V35
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1C651.	R228451	NH000GG69V50
1C655.	S228452	NH000GG69V63
1C659.	T228453	NH000GG69V80
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1E155.	X223718	NH1GG40V63-1
1E159.	Y223719	NH1GG40V80-1
1E163.	Z223720	NH1GG40V100-1
1E165.	A223721	NH1GG40V125-1
1E169.	B223722	NH1GG40V160-1
1E171.	C223723	NH1GG40V200-1
1E173.	D223724	NH1GG40V224-1
1E175.	E223725	NH1GG40V250-1
1E245.	L227250	NH2GG40V35-1
1E251.	M227251	NH2GG40V50-1
1E255.	N227252	NH2GG40V63-1
1E259.	X223741	NH2GG40V80-1

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1E271.	B223745	NH2GG40V200-1
1E273.	C223746	NH2GG40V224-1
1E275.	D223747	NH2GG40V250-1
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1E281.	F223749	NH2GG40V355-1
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1E375.	H223751	NH3GG40V250-1
1E379.	J223752	NH3GG40V315-1
1E383.	K223753	NH3GG40V400-1
1E387.	L223754	NH3GG40V500-1
1E389.	M223755	NH3GG40V630-1
1E613.	P223688	NH000GG40V2-1
1E619.	Q223689	NH000GG40V4-1
1E623.	R223690	NH000GG40V6-1
1E631.	S223691	NH000GG40V10-1
1E635.	T223692	NH000GG40V16-1
1E637.	V223693	NH000GG40V20-1
1E639.	W223694	NH000GG40V25-1
1E643.	X223695	NH000GG40V32-1
1E645.	Y223696	NH000GG40V35-1
1E647.	Z223697	NH000GG40V40-1
1E651.	A223698	NH000GG40V50-1
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1E769.	H223705	NH00GG40V160-1
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1F035.	E213651	NH0GG50V16-1
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1F045.	W215690	NH0GG50V35-1
1F047.	C216202	NH0GG50V40-1
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1F059.	T217735	NH0GG50V80-1
1F063.	D218250	NH0GG50V100-1
1F065.	S218769	NH0GG50V125-1
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1F135.	H219818	NH1GG50V16-1
1F137.	T222496	NH1GG50V20-1
1F139.	K223017	NH1GG50V25-1
1F143.	R200805	NH1GG50V32-1
1F145.	G201348	NH1GG50V35-1
1F147.	Q211085	NH1GG50V40-1
1F151.	L212116	NH1GG50V50-1
1F155.	N213153	NH1GG50V63-1
1F159.	M214164	NH1GG50V80-1
1F163.	W215184	NH1GG50V100-1
1F165.	D216203	NH1GG50V125-1
1F169.	B216707	NH1GG50V160-1
1F171.	P217225	NH1GG50V200-1
1F173.	V217736	NH1GG50V224-1
1F175.	E218251	NH1GG50V250-1
1F245.	L223018	NH2GG50V35-1
1F251.	H201349	NH2GG50V50-1
1F255.	T201865	NH2GG50V63-1

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1F259.	F211605	NH2GG50V80-1
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1F265.	N214165	NH2GG50V125-1
1F269.	X215185	NH2GG50V160-1
1F271.	E216204	NH2GG50V200-1
1F273.	Q217226	NH2GG50V224-1
1F275.	F218252	NH2GG50V250-1
1F277.	H219289	NH2GG50V300-1
1F279.	K219820	NH2GG50V315-1
1F281.	M223019	NH2GG50V355-1
1F283.	T200807	NH2GG50V400-1
1F375.	J201350	NH3GG50V250-1
1F377.	S211087	NH3GG50V300-1
1F379.	G211606	NH3GG50V315-1
1F381.	E212639	NH3GG50V355-1
1F383.	H213654	NH3GG50V400-1
1F385.	S214675	NH3GG50V425-1
1F386.	Z215693	NH3GG50V450-1
1F387.	F216205	NH3GG50V500-1
1F389.	D216709	NH3GG50V630-1
1F613.	C219652	NH000GG50V2-1
1F619.	N205770	NH000GG50V4-1
1F623.	P212464	NH000GG50V6-1
1F631.	V215528	NH000GG50V10-1
1F635.	F213997	NH000GG50V16-1
1F637.	F218091	NH000GG50V20-1
1F639.	K200638	NH000GG50V25-1
1F643.	D213489	NH000GG50V32-1
1F645.	G201187	NH000GG50V35-1
1F647.	D219653	NH000GG50V40-1
1F651.	C222849	NH000GG50V50-1
1F655.	R212466	NH000GG50V63-1
1F659.	N215016	NH000GG50V80-1
1F663.	J201189	NH000GG50V100-1
1F739.	R217227	NH00GG50V25-1
1F743.	X217738	NH00GG50V32-1
1F745.	G218253	NH00GG50V35-1
1F747.	W218772	NH00GG50V40-1
1F751.	J219290	NH00GG50V50-1
1F755.	L219821	NH00GG50V63-1
1F759.	W222498	NH00GG50V80-1
1F763.	N223020	NH00GG50V100-1
1F765.	V200808	NH00GG50V125-1
1F769.	W201867	NH00GG50V160-1
1G023.	C229726	NH0GG69V6-1
1G031.	D229727	NH0GG69V10-1
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1G243.	J229755	NH2GG69V32-1
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1G269.	S229763	NH2GG69V160-1
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1G281.	Z229769	NH2GG69V355-1
1G375.	A229770	NH3GG69V250-1
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1G379.	C229772	NH3GG69V315-1
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1G643.	M229712	NH000GG69V32-1
1G645.	N229713	NH000GG69V35-1
1G647.	P229714	NH000GG69V40-1
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1G655.	R229716	NH000GG69V63-1
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1G763.	A229724	NH00GG69V100-1
1G765.	B229725	NH00GG69V125-1
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2B175.	J232515	NH1AM50V250
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Lindner ref.-no.	FS ref.-no.	NEW catalog-No.
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2B387.	V232525	NH3AM50V500
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2B635.	P232497	NH000AM50V16
2B637.	Q232498	NH000AM50V20
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2B643.	S232500	NH000AM50V32
2B645.	T232501	NH000AM50V35
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2B655.	X232504	NH000AM50V63
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2B765.	Z232506	NH00AM50V125
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2C023.	K227870	NH0AM69V6-1
2C031.	L227871	NH0AM69V10-1
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2C265.	S227969	NH2AM69V125-1
2C269.	T227970	NH2AM69V160-1
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2C275.	X227973	NH2AM69V250-1

Lindner ref.-no.	FS ref.-no.	NEW catalog-No.
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2C379.	F227981	NH3AM69V315-1
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2C383.	H227983	NH3AM69V400-1
2C385.	J227984	NH3AM69V425-1
2C386.	K227985	NH3AM69V450-1
2C387.	L227986	NH3AM69V500-1
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2C623.	R227853	NH000AM69V6-1
2C631.	S227854	NH000AM69V10-1
2C635.	T227855	NH000AM69V16-1
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2C655.	B227862	NH000AM69V63-1
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2C755.	E227865	NH00AM69V63-1
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5B265.	C232808	NH2GTR125KVA
5B269.	D232809	NH2GTR160KVA
5B271.	E232810	NH2GTR200KVA
5B275.	F232811	NH2GTR250KVA
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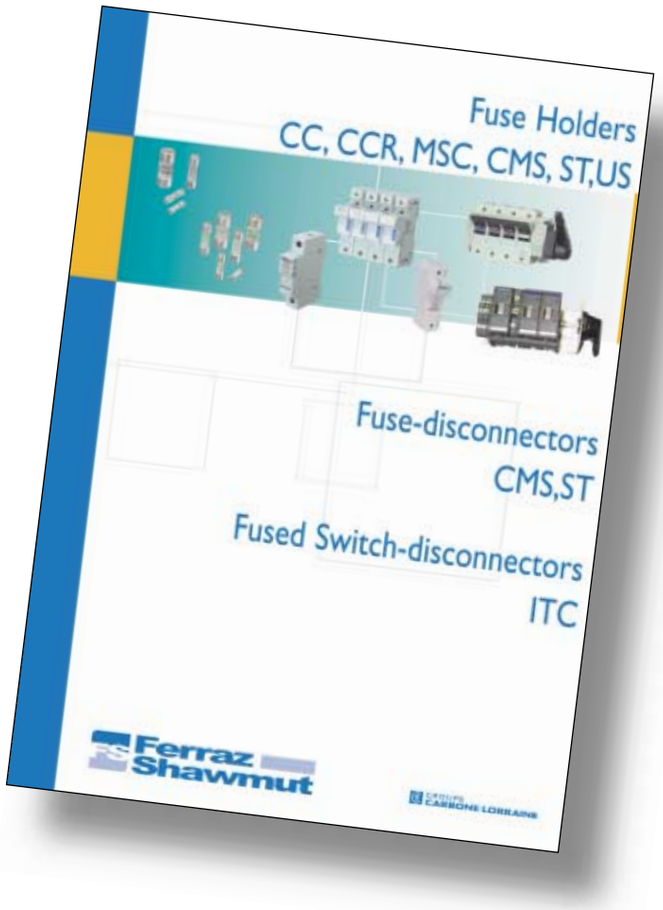
Notes



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