

Fuse Systems

3NA, 3ND LV HRC Fuse Systems

LV HRC fuse links

Overview

LV HRC fuse systems (NH type) are used for installation systems in non-residential, commercial and industrial buildings as well as in switchboard assemblies of power utilities. They therefore protect essential building parts and systems.

LV HRC fuse systems (NH type) are fuse systems designed for operation by experts. There are no constructional requirements for non-interchangeability of rated current and touch protection.

The components and auxiliary equipment are designed in such a way as to ensure the safe replacement of LV HRC fuse systems or isolation of systems.

LV HRC fuse links are available in the sizes 000, 00, 0, 1, 2, 3, 4 and 4a.

LV HRC fuse links are available in the following operational classes:

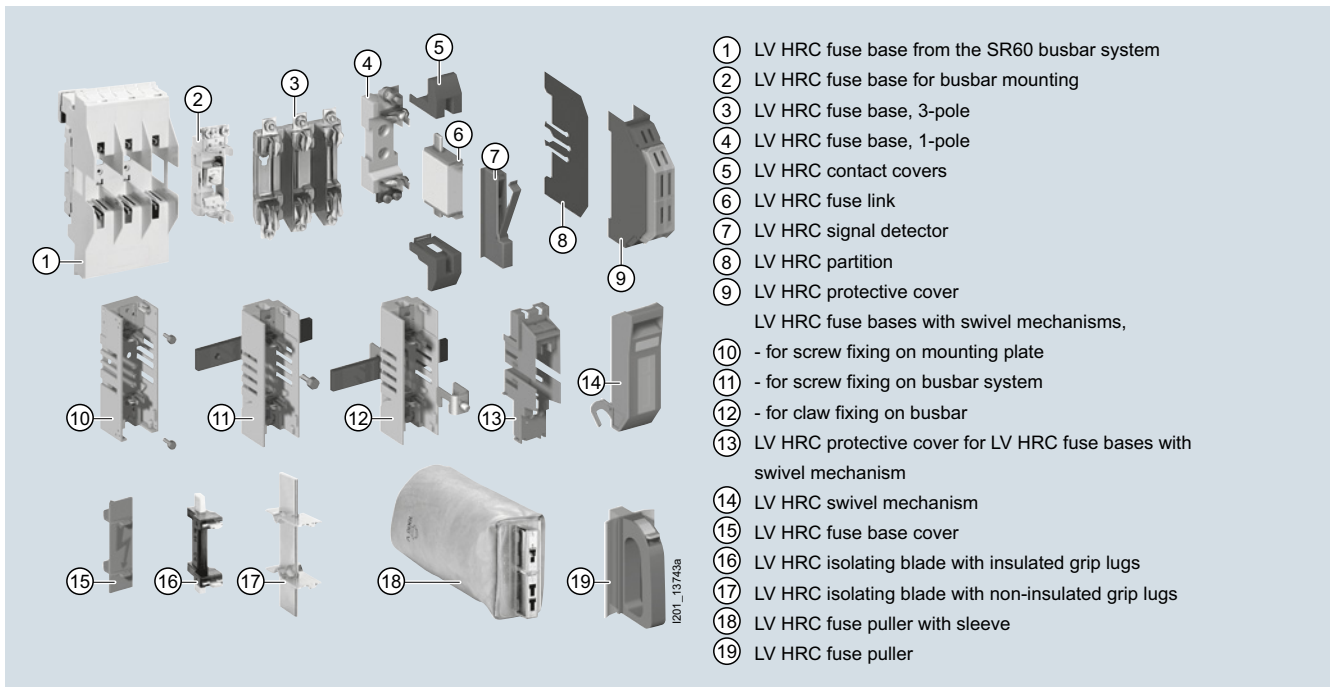
- gG for cable and line protection
- aM for short-circuit protection of switching devices in motor circuits
- gR or aR for protection of power semiconductors
- gS: The new gS operational class combines cable and line protection with semiconductor protection

LV HRC fuse links of size 000 can also be used in LV HRC fuse bases, LV HRC fuse switch disconnectors, LV HRC fuse strips as well as LV HRC in-line fuse switch disconnectors of size 00.

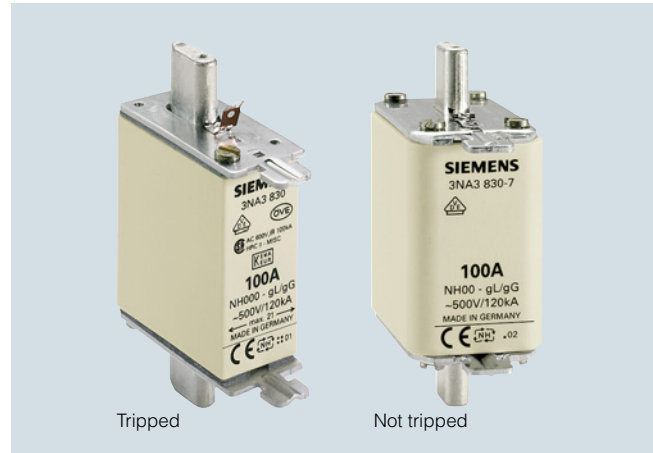
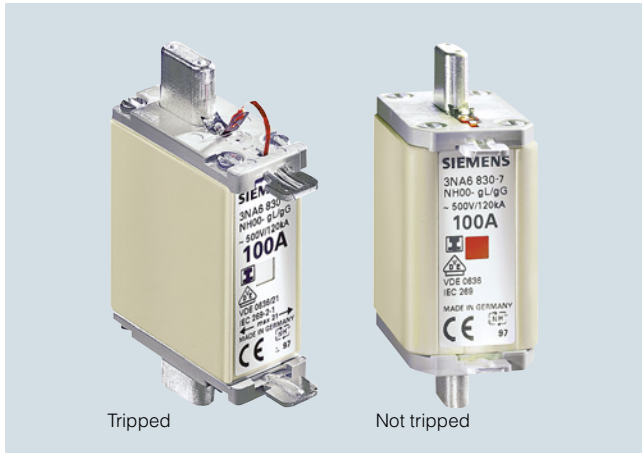
The fuse links 300 A, 355 A and 425 A comply with the standard but do not have the VDE mark.


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LV HRC components:



Benefits



- LV HRC fuse links with combination alarm signal the tripping of a fuse by a clear color change from red to white. This enables fast identification and replacement of the tripped fuse links. This increases system availability
- The insulated grip lugs made of metal are integrated in the top and bottom covers of the fuse link in molded plastic and provide greater safety during replacement. The mark shown below indicates that the grip lugs are insulated 
- In the standard series with front indicator, the front-mounted red indicator signals the tripping of a fuse
- LV HRC fuse links are always equipped with silver-plated contact pins. This means that they are non-corroding and have less contact resistance. This ensures the long-term operational safety of the plant

Technical specifications





	LV HRC fuse links						Operational class aM
	Operational class gG						
		3NA6...-4 3NA6...-4KK 3NA383-8	3NA6... 3NA6...-7 3NA7... 3NA7...-7	3NA3... 3NA3...-7	3NA6...-6 3NA7...-6	3NA3...-6	3ND1 3ND2
Standards		IEC 60269-1, -2; EN 60269-1; DIN VDE 0636					
Approvals		DIN VDE 0636-2; CSA 22.2 No.106, File Number 016325_0_00 (CSA approval of fuses 500 V for 600 V)					
Rated voltage U_n							
• Sizes 000 and 00	V AC	400	500	500	690 ¹⁾	690 ¹⁾	500
	V DC	--	250	250	250	250	--
• Sizes 1 and 2	V AC	400	500	500	690 ¹⁾	690 ¹⁾	690
	V DC	--	440	440	440	440	--
• Size 3	V AC	--	--	500	--	690 ¹⁾	690
	V DC	--	--	440	--	440	--
• Sizes 4 and 4a (IEC design)	V AC	--	--	500	--	--	--
	V DC	--	--	440	--	--	--
Rated current I_n	A	10 ... 400	2 ... 400	2 ... 1250	2 ... 315	2 ... 500	6 ... 630
Rated breaking capacity	kA AC	120					
	kA DC	--					
Contact pins		Non-corroding, silver-plated					
Resistance to climate	°C	-20 ... +50 at 95 % relative humidity					

¹⁾ Manufacturer's confirmation for 690 V +10 % rated voltage available on request.

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Size	Mounting width mm	I_n A	U_n V AC/V DC	DT	Non-insulated grip lugs		Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
					Article No. www.siemens.com/product?ArticleNo.						
LV HRC fuse links with front indicator, operational class gG											
	21	2	500/250	▶	3NA3802			1	3 units	017	0.127
		4		▶	3NA3804						
		6		▶	3NA3801						
		10		▶	3NA3803						
		16		▶	3NA3805						
		20		▶	3NA3807						
		25		▶	3NA3810						
		32		▶	3NA3812						
		35		▶	3NA3814						
		40		▶	3NA3817						
		50		▶	3NA3820						
		63		▶	3NA3822						
		80		▶	3NA3824						
		100		▶	3NA3830						
		125		400/250	▶	3NA3832-8					
		160			▶	3NA3836-8					
	30	35	500/250		3NA3814-7			1	3 units	017	0.182
		50			3NA3820-7						
		63			3NA3822-7						
		80			3NA3824-7						
		100		▶	3NA3830-7						
		125		▶	3NA3832						
160	▶	3NA3836									
	30	6	500/440		3NA3001			1	3 units	017	0.268
		10			3NA3003						
		16			3NA3005						
		20			3NA3007						
		25			3NA3010						
		32			3NA3012						
		35			3NA3014						
		40			3NA3017						
		50			3NA3020						
		63			3NA3022						
		80			3NA3024						
		100			3NA3030						
		125			3NA3032						
		160			3NA3036						
	30	16	500/440		3NA3105			1	3 units	017	0.264
		20			3NA3107						
		25			3NA3110						
		35			3NA3114						
		40			3NA3117						
		50			3NA3120						
		63		▶	3NA3122						
		80		▶	3NA3124						
		100		▶	3NA3130						
		125		▶	3NA3132						
		160		▶	3NA3136						
		47.2		200	▶	3NA3140					
				224	▶	3NA3142					
				250	▶	3NA3144					

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