

NH fused isolators

Size 00 (3-pole) Catalogue 33, page 306

Size 1/size 2/size 3 (3-pole) Catalogue 33, page 307

Note: – For the use of fuse inserts to EN 60 269-2. – Technical specifications to IEC/EN 60 947-3, see page 202. – Load factor, see page 149. – Current carrying capacity of connection cables, see page 150. – Use of semi-conductor fuses, see page 156.																																																																																																																																								
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Assembly data for applications to IEC (EN)

	Size 00	Size 00	Size 1	Size 2	Size 3
Tightening torque Nm	6	6	40	40	40
– Rail attachment	4.5	14	32	32	32
– Terminal screw	–	–	–	–	–
Type of connection	Box terminal	Screw M8	Bolts M12	Bolts M12	Bolts M12
Conductor connection re/rm Cu mm ²	2.5 – 95	–	–	–	–
Conductor connection with ring terminal mm ²	–	up to 95	up to 240	up to 240	up to 240
Minimum distance to conductive earthed parts mm	Side: 50	50	10	10	10
Top	100	100	50	50	50
Rear	0	0	0	0	0

Material specifications

	Size 00	Size 00	Size 1	Size 2	Size 3
Contact track: E-Cu, silver-plated	■	■	■	■	■
Terminal: Sheet steel, zinc-plated	■	–	–	–	–

¹⁾When using busbar adaptor SV 9346.410/SV 9346.420 – see Catalogue 33, page 325 – also suitable for mounting on 185 mm busbar systems.

Power distribution

RiLine NH fuse elements

NH fused isolators, size 00 – 3

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Technical specifications to IEC/EN 60 947-3					
Size (NH fuse inserts to IEC/EN 60 269-2)		00	1	2	3
Rated operating current I_e		160 A	250 A	400 A	630 A
Rated operating voltage U_o		690 V AC	690 V AC	690 V AC	690 V AC
Rated insulation voltage U_i		1000 V	1000 V	1000 V	1000 V
Rated surge voltage resistance U_{imp}		8 kV	8 kV	8 kV	8 kV
Level of contamination		3	3	3	3
Overvoltage category		III	III	III	III
Rated frequency		50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Conditional rated short-circuit current (when protected with fuse inserts)	at 500 V AC	100 kA	120 kA	120 kA	120 kA
	at 690 V AC	100 kA	100 kA (with 200 A)	100 kA (with 315 A)	100 kA (with 500 A)
Utilisation category	400 V AC	AC-23B with 160 A	AC-23B with 250 A	AC-23B with 400 A	AC-23B with 630 A
	500 V AC	AC-22B with 160 A	AC-22B with 250 A	AC-22B with 400 A	AC-22B with 630 A
	690 V AC	AC-22B with 160 A	AC-21B with 250 A	AC-21B with 400 A	AC-21B with 630 A
	1000 V DC ¹⁾²⁾	DC -20B	DC -20B	DC -20B	DC -20B
Rated short-time current resistance I_{cw}		5 kA	10 kA	15 kA	20 kA
Mechanical life (switching cycles)		1400	1400	800	800
Contact hazard protection – operating area		IP 3X	IP 2X	IP 2X	IP 2X
Siting conditions	Interior siting: Relative humidity 50% at 40°C or 90% at 20°C (without condensation due to temperature fluctuations)				
Permissible ambient temperature	–20°C to +60°C				
$P_{V \max}$ /fuse insert		12 W	23 W	34 W	48 W

¹⁾ DC applications with component mounting of phase L1 and L3 in series.

²⁾ For use as disconnector or fuse-switch disconnector. The required creepage distances and clearances should be observed in the cable connection area.

Notes:

- Vertical installation is the typical position of use.
- When using semi-conductor fuses, reduction factors should be taken into account.

NH slimline fuse-switch disconnectors, size 00 – 3

Conductor connection of several ring terminals

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Size	Size 00	Size 1	Size 2	Size 3
Conductor cross-section (mm ²)	Number of ring terminals to DIN 46 235			
16	2	–	–	–
25	2	–	–	–
35	2	–	–	–
50	–	–	–	–
70	–	–	–	–
95	–	–	–	–
120	–	2	2	2
150	–	2	2	2
185	–	2	2	2
240	–	2	2	2
300	–	–	–	–

Note:

The creepage distances and clearances to EN 60 664-1 should be checked and, where necessary, insulating plates be installed. Fine-wire with wire end ferrule.