Power distribution

RiLine fuse elements

NH slimline fuse-switch disconnectors, size 00 - 3

3-pole, cable outlet at the top/bottom

- Note:

 For the use of fuse inserts to EN 60 269-2

 Technical specifications to IEC/EN 60 947-3, see chapter 2-116, page 3

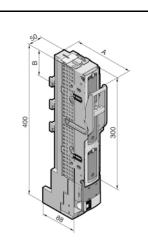
 Load factor, see chapter 2-101, page 4

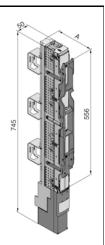
 Current carrying capacity of

- See Chapter 2-101, page 4

 Current carrying capacity of connection cables, see chapter 2-101, page 5

 Use of semi-conductor fuses, see chapter 2-101, page 6





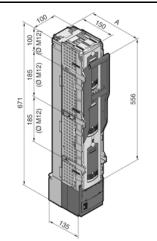
Size		Size 00		Size 00				
Rated operating current	max.			160 A		160 A		
Rated operating voltage				690 V AC			690	V AC
Cover position	Closed		123			180		
Cover position (A) mm	Off-load position	183			20	39		
Support point (L1) W mm		84	30	84	30	30	-	-
For converter installation		-	-	-	-	-	-	•
For bar centre distance mm		60	100	60	100	100	185	185
Model No. SV		9346.000	9346.020	9346.010	9346.030	9346.060	9346.040	9346.050

Size				Size ou			3120	2 00
Rated operating current	t max.			160 A			160 A	
Rated operating voltage				690 V AC			690	V AC
Cover position	Closed	123				18	30	
Cover position (A) mm	Off-load position	183				20	39	
Support point (L1) W mm		84	30	84	30	30	-	-
For converter installation		-	-	-	-	-	-	
For bar centre distance mm		60	100	60	100	100	185	185
Model No. SV		9346.000	9346.020	9346.010	9346.030	9346.060	9346.040	9346.050
Assembly data for applications to IFC (FN)								

Assembly data f	or applications t	to IEC (EN)
Tightoning torque	Niss	

Tightening torque Nm - Bar attachment - Terminal screw		6 4.5	6 14	12 14	12 14
Type of connection		Box terminal	Screw M8	Screw M8	Screw M8
Conductor connection re/rm Cu mm ²		2.5 – 95	-	_	-
Conductor connection with ring terminal mm ²		-	2.5 – 95	2.5 – 95	2.5 – 95
Minimum distance	Side	50	50	50	50
to conductive earthed parts mm	Тор	100	100	100	100
	Rear	0	0	0	0
Matarial appoification	ono				

		_				
Material specifications						
Contact track: E-Cu, silver-plated	•	•	•	•		
Terminal: Sheet steel, zinc-plated	•	_	-	_		



	1	
Size 1	Size 2	Size 3
250 A	400 A	630 A
690 V AC	690 V AC	690 V AC
190	190	190
260	260	260
-	-	-
	•	
185	185	185
9346.110	9346.210	9346.310

40 32	40 32	40 32
Bolt M12	Bolt M12	Bolt M12
-	-	-
6 – 240	6 – 240	6 – 240
10	10	10
50	50	50
0	0	0

•	•	•
_	ı	ı

Power distribution

RiLine fuse elements

NH slimline fuse-switch disconnectors, size 00 - 3

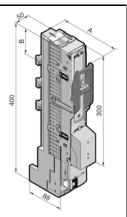
with electronic fuse monitoring

3-pole, cable outlet at the top/bottom

- Note:

 For the use of fuse inserts to EN 60 269-2

 Technical specifications to IEC/EN 60 947-3, see chapter 2-116, page 3
- Load factor, see chapter 2-101, page 4 Current carrying capacity of connection cables, see chapter 2-101, page 5
- Use of semi-conductor fuses, see chapter 2-101, page 6



|--|

Size 1

250 A

690 V AC

185

190

260

9346.115

Size	Size 00	
Rated operating current max.		160 A
Rated operating voltage		690 V AC
For bar centre distance mm		60
Cover position	Closed	123
(A) mm	Off-load position	183
Support point (L1) W mm	84	
For converter installation	-	
Model No. SV		9646.015

Assembly data for applications to IEC (EN)

Tightening torque Nm - Bar attachment - Terminal screw		6 4.5
Type of connection		Screw M8
Conductor connection re/rm Cu mm ²		2.5 – 95
Conductor connection with ring terminal mm ²	2.5 – 95	
Minimum distance	Side	50
to conductive	Тор	100
earthed parts mm	Rear	0
Material specifications		

40 32	40 32	40 32
Bolt M12	Bolt M12	Bolt M12
-	-	-
6 – 240	6 – 240	6 – 240
10	10	10
50	50	50
0	0	0
_	_	_

Size 2

400 A

690 V AC

185

190

260

9346.215

Size 3

630 A

690 V AC

185

190

260

9346.315

Minimum distance to conductive earthed parts mm	Side	50			
	Тор	100			
	Rear	0			
Material specifications					
Contact track: E-Cu, silver-plated					

RiLine fuse elements

NH slimline fuse-switch disconnectors, size 00 - 3

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 _e		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 impulse withstand voltage U _{imp}		8 kV	8 kV	8 kV	8 kV
Pollution degree		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	at 500 V AC	100 kA	120 kA	120 kA	120 kA
(when protected with fuse inserts)	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 withstand current 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: Rel. 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

NH slimline fuse-switch disconnectors, size 00 - 3

Conductor connection of several ring terminals

Size	Size 00	Size 1	Size 2	Size 3		
Conductor cross-section (mm²)	Number of ring terminals to	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 installed

¹⁾ DC applications with configuration of phase L1 and L3 in series ²⁾ For use as disconnector or fuse-switch disconnector. The required creepage distances and clearances must be observed in the cable connection area

<sup>Notes:
Vertical installation is the typical position of use
When using semi-conductor fuses, reduction factors should be taken into account</sup>

⁻ Fine-wire only with wire end ferrule

Power distribution

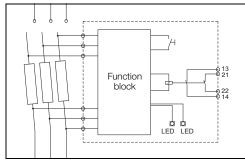
RiLine fuse elements

NH slimline fuse-switch disconnectors, size 00 - 3

Electronic fuse monitoring

Technical specifications	Electronic fuse monitoring	
Rated operating voltage U _e	400 V AC to 690 V AC	
Tolerance	±10% (400/500 V AC) +5%/-10% (690 V AC)	
Rated insulation voltage U _i	1000 V AC	
Rated impulse withstand voltage U _{imp}	8 kV	
Rated frequency	50 – 60 Hz	
Response time	Max. 1.5 s	
Auxiliary contacts	1 NO, 1 NC 250 V AC, 30 V DC, 5 A	
Load capacity of auxiliary contacts	5 A	
Permissible ambient temperature	-20°C to +55°C (400/500 V AC), -20°C to +45°C (690 V AC)	
Display	LED flashing green (operational) 13/14: open 21/22: closed	
	LED flashing red (error message) 13/14: closed 21/22: open	
Connection of auxiliary contacts	Terminal up to 1.5 mm ²	
NH fuse inserts to IEC/EN 60 269-3	With contacted, live puller lugs	
Material	Contact blades: E-Cu, tin-plated	
Function	Differential voltage	

Wiring diagram



Electronic fuse monitoring