## MH (HRC) fuse loadbreak-disconnectors size 000 (100 A), for surface mounting, series ARROW II



#### Schrack-Info

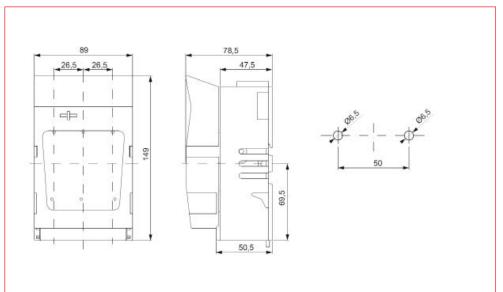
- NH-fuse loadbreak-disconnectors according IEC/EN 60947-3, VDE 0660/107
- For fixes Installation
- Halogen-free, non-flammable plastics
- Degree of protection IP20, on front, closed device
- Degree of protection IP10, open front cover

ISA05011

### Technical Data

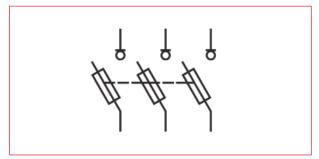
Туре	ISA05011
Size	NH000
Poles	3
Applicable for fuse-links	NH000
Type of installation	Baseplate mounting
	DIN-rail mounting
Switching mode	3pole switchable
Rated operating voltage	690V
Rated operating current	160A
Conv. free air thermal current with fuse-links	160A
Conv. free air thermal current with solid links	210A
Rated impulse voltage	8kV
Rated isolation voltage	800V
Rated frequency	40 - 60Hz
Total power loss at Ith (without fuse-link)	7W
Utilisation category	AC-21B (690V/100A)
	AC-22B (400V/160A)
	AC-22B (500V/100A)
	DC-22B (220V/100A)
Rated conditional short-circuit current	50kA (AC 500V)
Max. permissible power dissipation per fuse-link	9W
Ambient temperature	-25 up to +55°C
Ambient temperature	>35°C derating of rated current required
Type of Actuation	Dependent manual operation
Mounting position	vertical / horizontal
Pollution degree	3
Overvoltage category	
Electrical endurance (switching cycles)	200
Mechanical endurance (switching cycles)	1400
Degree of protection	IP20
Cable terminal	Flat terminal M8

### Dimensioned drawing



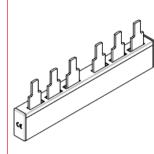


- MH (HRC) fuse loadbreak-disconnectors size 000 (100 A), for surface mounting, series ARROW II
- ISA05011 Wiring diagram



DESCRIPTION	AVAILABLE	ORDER NO.
Size C 00 with mounting clip for Din-rail		ISA05011
HRC-fuse-switch size C 00 with mounting clip for Din-rail	000 000	1\$505011

### Accessories for ARROW II, size 000





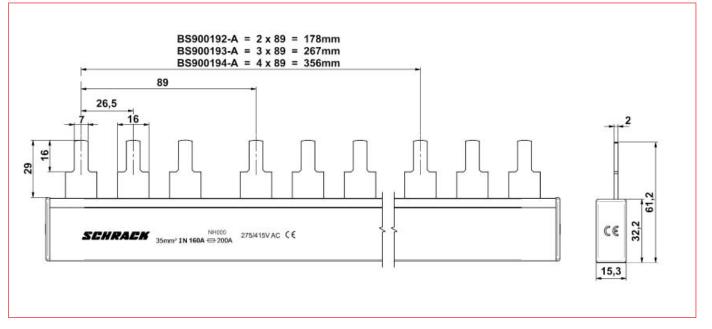
### Schrack-Info

Busbars for comfortable and easy wiring of NH-fuse-loadbreakdisconnectors size 000 series ARROW II



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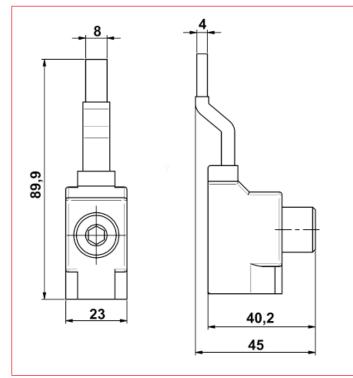
### BS900192-A, BS900193-A, BS900194-A Dimensions





## Accessories for ARROW II, size 000

### BS900191-A Dimensions



DESCRIPTION	AVAILABLE	ORDER NO.
Busbar 2xC00 3P fuse switch	388 0-0	BS900192-A
Busbar 3xC00 3P fuse switch		BS900193-A
Busbar 4xC00 3P fuse switch		BS900194-A
Terminal 95mm <sup>2</sup> for busbar C00		BS900191-A
Input-terminals for HRC-fuse-switch size C00 25-95mm <sup>2</sup>		ISA05013



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MH (HRC) fuse loadbreak-disconnectors size 1 (160 A), for surface mounting, series ARROW II



ISA05222

ISA05222		
Size	NH00	
Poles	1	
Applicable for fuse-links	NH000 and NH00	
Type of installation	Baseplate mounting	
Switching mode	1, 3, or 4-pole switchable	
Rated operating voltage	690V	
Rated operating current	160A	
Conv. free air thermal current with fuse-links	160A	
Conv. free air thermal current with solid links	210A	
Rated impulse voltage	8kV	
Rated isolation voltage	800V	
Rated frequency	40 - 60Hz	
Utilisation category	AC-22B (500V/160A)	
	AC-22B (690V/100A)	
	DC-21B (440V/100A)	
	DC-22B (220V/160A)	
Rated conditional short-circuit current	50 (AC 500V)(kA)	
Max. permissible power dissipation per fuse-link	12W	
Ambient temperature	-25 up to +55°C	
Ambient temperature	<35°C derating of rated current required	
Type of Actuation	Dependent manual operation	
Mounting position	vertical / horizontal	
Altitude	2000m	
Pollution degree	3	
Overvoltage category		
Electrical endurance (switching cycles)	200	
Mechanical endurance (switching cycles)	1400	
Degree of protection	IP20	
Cable terminal	Flat terminal M8	
DESCRIPTION	AVAILABLE	ORDER NO.
Size 00, 1-pole, 160A, M8	855 <b>6 8</b>	ISA05224
Size 00, 3-pole, 160A, clamp, with window lock		ISA05221F
Size 00, 3-pole, 160A, M8, with window lock		ISA05222F
Size 00, 4-pole, 160A, M8		ISA05225
Single clamp strap size 00		ISA05300
Prism clamp 1,5-70mm <sup>2</sup> for size 00		ISA05335
DIN rail fixing parts for ARROW BLOC size 00		ISA05194





## MH (HRC) fuse loadbreak-disconnectors size 00 (160 A), for surface mounting, series ARROW BLUE



#### Schrack-Info

- Integrated infringe-protection side and top •
- Contactless fuse take out •
- Closing part sealable and lockable •
- Park position for closing part .
- Patented voltage measuring slots, tool-bound open, without tools close •

ISA05221-A

Standard	IEC/DIN/EN 60947-3 / VDE 0660-107
For LV HRC fuse-links acc. to DIN VDE 0636-2	Size 000/00
Rated operational voltage U	690VAC / 440V-DC
Rated operational current <sup>1)</sup> I	160 A
Conv. free air thermal current with fuse-links <sup>1)</sup> I <sub>th</sub>	160 A
Conv. free air thermal current with solid-links <sup>1)</sup> I	210 A
Rated frequency f	40 - 60 Hz
Rated insulation voltage U	800 V - AC
Total power loss at Ith (without fuse-links) P <sub>v</sub>	9 W
Rated impulse withstand voltage U	8 kV
Utilisation category <sup>2)</sup>	AC-23B (400V/160A) <sup>2a)</sup>
	AC-22B (500V/160A) 2a)
	AC-21B (690V/160A) 20)
	DC-22B (250V/160A) <sup>2a)</sup>
	DC-21B (440V/160A) <sup>2a)</sup>
Rated conditional short-circuit current <sup>2) 3)</sup>	120 kA (500V) <sup>20</sup>
	100 (690V) <sup>20)</sup>
Rated short–time withstand current I	7 kA (1s)
Max. permis. power loss per fuse-link P	12 W
Degree of protection, front side	Operating condition IP20
	With clamp- and lateral cover IP20XC
	switching element open IP10
Ambient temperature 4) Tamb	-25 up to +55 °C
Rated operating mode	Uninterrupted duty
Actuation	dependent manual operation
Mounting position	vertical / horizontal
Altitude	up to 2000 m
Pollution degree	3
Overvoltage category	
Cable terminal	Flat terminal, Bolt diameter M8
	Tightening torque 12-15Nm
Clip terminal, Clamping cross-section	conductor round 1,5 - 70 mm <sup>2</sup> copper
	busbar 6 x 9 x 0,8
	Tightening torque 2,6Nm

<sup>1)</sup> In case of mounting of several units in low voltage switch-gear-combinations, please consider rated diversity factors acc. to EN 61439-1.

<sup>2)</sup> It must be considered a minimum distance to earthed, conductive parts:

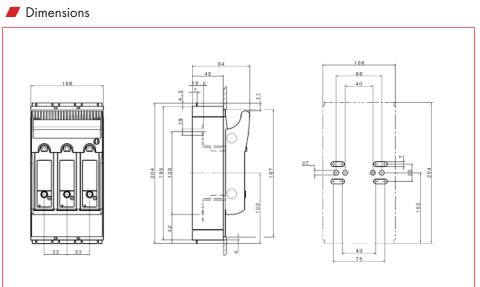
<sup>2a)</sup> Lateral: 20mm / Above: 50mm / Behind: 0mm

<sup>3)</sup> Type tested with LV-HRC-fuse-links characteristic gG.

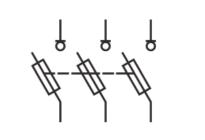
<sup>4)</sup> 35°C Normal temperature, at 55°C with reduced operating current



MH (HRC) fuse loadbreak-disconnectors size 00 (160 A), for surface mounting, series ARROW BLUE



### ISA05221-A, ISA05222-A

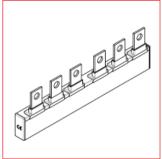


DESCRIPTION	AVAILABLE	ORDER NO.
Size 00, 3-pole, 160A, M8	000 - 0-	ISA05222-A
Size 00, 3-pole, 160A, clamp		ISA05221-A
Single clamp strap size 00		ISA05300
Prism clamp 1,5-70mm <sup>2</sup> for size 00	000 000	ISA05335







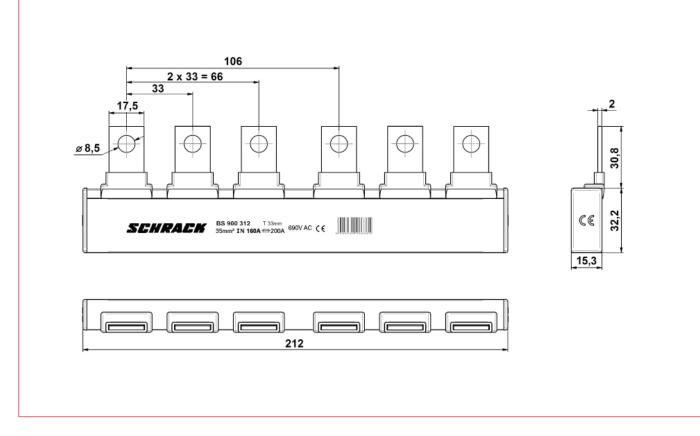


# Schrack-Info

Busbars for comfortable and easy wiring of NH-fuse-loadbreak-disconnectors size 00 series ARROW BLUE

BS900312

Dimensions

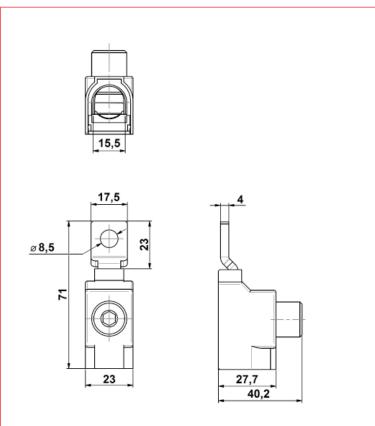




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- Busbars for ARROW BLUE, size 00
- Dimensions



DESCRIPTION	AVAILABLE	ORDER NO.
Busbar 2x00 3P fuse switch		BS900312
Busbar 3x00 3P fuse switch		BS900313
Busbar 4x00 3P fuse switch		BS900314
Terminal 95mm² for busbar 00		BS900311





# NH (HRC) fuse loadbreak-disconnectors size 1 (250 A), for surface mounting, series ARROW II



#### Schrack-Info

- NH-fuse loadbreak-disconnectors according IEC/EN 60947-3, VDE 0660/107
- For fixes Installation
- Halogen-free, non-flammable plastics
- Degree of protection IP20, on front, closed device
- Degree of protection IP10, open front cover

ISA05226

### Technical data

Poles         Applicable for fuse-links         Type of installation         Switching mode         Rated operating voltage         Rated operating current         Conv. free air thermal current with fuse-links	1-, 3- or 4-pole NH1 Baseplate mounting 3pole switchable 690V 250A 250A 250A 325A 8kV	
Type of installation Switching mode Rated operating voltage Rated operating current Conv. free air thermal current with fuse-links	NH1 Baseplate mounting 3pole switchable 690V 250A 250A 325A	
Switching mode     Rated operating voltage       Rated operating current     Conv. free air thermal current with fuse-links	3pole switchable           690V           250A           250A           325A	
Rated operating voltage       Rated operating current       Conv. free air thermal current with fuse-links	690V 250A 250A 325A	
Rated operating current           Conv. free air thermal current with fuse-links	250A 250A 325A	
Conv. free air thermal current with fuse-links	250A 325A	
	325A	
Conv. free air thermal current with solid links	8kV	
Rated impulse voltage		
Rated isolation voltage	800V	
Rated frequency	40 - 60Hz	
Total power loss at Ith (without fuse-link)	13W	
Utilisation category	AC-22B (500V/250A)	
	AC-22B (690V/200A)	
	DC-21B (440V/200A)	
	DC-22B (220V/250A)	
Rated conditional short-circuit current	50 (AC 500V)(kA)	
Max. permissible power dissipation per fuse-link	23(W)	
Ambient temperature	-25 up to +55°C	
	(>35°C derating of rated current required)	
Type of Actuation	Dependent manual operation	
Mounting position	vertical / horizontal	
Altitude	2000m	
Pollution degree	3	
Overvoltage category	III	
Electrical endurance (switching cycles)	200	
Mechanical endurance (switching cycles)	1400	
Degree of protection	IP20	
Cable terminal	Flat terminal M10	
Tightening torque	30-35Nm	
DESCRIPTION	AVAILABLE	ORDER NO.
Size 1, 1-pole, 250A, M10	<u></u>	ISA05227
Size 1, 3-pole, 250A, M10		ISA05226
Size 1, 4-pole, 250A, M10		ISA05229

Page 61 NH (HRC) fuse loadbreak-disconnectors size 1 (250 A), for surface mounting, series ARROW BLUE



### 🖉 Schrack-Info

- Integrated infringe-protection side and top
- Contactless fuse take out
- Closing part sealable and lockable
- Park position for closing part
- Patented voltage measuring slots, tool-bound open, without tools close

ISA05226-A

Standard	IEC/DIN/EN 60947-3
For LV HRC fuse-links acc. to DIN VDE 0636-2	size 1
Rated operational voltage U	690VAC / 440 V DC
Rated operational current <sup>1)</sup>	250 A
Conv. free air thermal current with fuse-links 1) I	250 A
Rated frequency f	40 - 60 Hz
Rated insulation voltage U	800 V AC
Total power loss at Ith (without fuse-links) P	22 W
Rated impulse withstand voltage U <sub>imp</sub>	8 kV
Utilisation category <sup>2)</sup>	AC-23B (400V/250A) <sup>2b)</sup>
	AC-22B (500V/250A) <sup>2b)</sup>
	AC-21B (690V/250A) <sup>2b)</sup>
Rated conditional short-circuit current <sup>2) 3)</sup>	120 kA (500V) <sup>2b)</sup>
	100 (690V) <sup>2b)</sup>
Rated short–time withstand current I <sub>cw</sub>	10 kA (1s)
Max. permis. power loss per fuse-link P	23 W
Degree of protection, front side	Operating condition IP20
	With clamp- and lateral cover IP20XC
	switching element open IP10
Ambient temperature 4) Tamb	-25 up to +55 °C
Rated operating mode	Uninterrupted duty
Actuation	dependent manual operation
Mounting position	vertical / horizontal
Altitude	up to 2000 m
Pollution degree	3
Overvoltage category	W
Cable terminal	Flat terminal, Bolt diameter M10
	Tightening torque 30-35Nm

<sup>1)</sup> In case of mounting of several units in low voltage switch-gear-combinations, please consider rated diversity factors acc. to EN 61439-1.

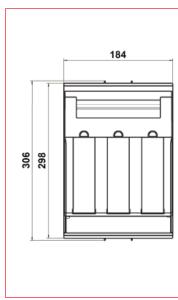
<sup>2)</sup> ...It must be considered a minimum distance to earthed, conductive parts:

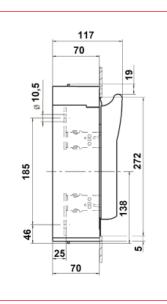
<sup>2b)</sup> Lateral: 20mm / Above: 50mm

<sup>3)</sup> Type tested with LV-HRC-fuse-links characteristic gG.

<sup>4)</sup> 35°C Normal temperature, at 55°C with reduced operating current

#### Dimensions

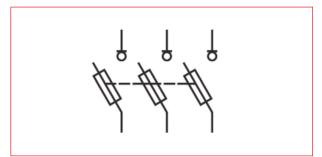






NH (HRC) fuse loadbreak-disconnectors size 1 (250 A), for surface mounting, series ARROW BLUE

ISA05226 Wiring diagram



DESCRIPTION	AVAILABLE	ORDER NO.
Size 1, 3-pole, 250A, M10	500 0-0	ISA05226-A

MH (HRC) fuse loadbreak-disconnectors size 2 (400 A), for surface mounting, series ARROW II



ISA05250

Size	NH2	
Poles	3	
Applicable for fuse-links	NH2	
Type of installation	Baseplate mounting	
Switching mode	3pole switchable	
Rated operating voltage	690V	
Rated operating current	400A	
Conv. free air thermal current with fuse-links	400A	
Conv. free air thermal current with solid links	520A	
Rated impulse voltage	8kV	
Rated isolation voltage	800V	
Rated frequency	40 - 60Hz	
Total power loss at Ith (without fuse-link)	27W	
Utilisation category	AC-22B (500V/400A)	
	AC-22B (690V/315A)	
	DC-21B (440V/315A)	
	DC-22B (220V/400A)	
Rated conditional short-circuit current	80 (AC 500V)(kA)	
Max. permissible power dissipation per fuse-link	34W	
Ambient temperature	-25 up to +55°C	
	>35°C derating of rated current required	
Type of Actuation	Dependent manual operation	
Mounting position	vertical / horizontal	
Altitude	2000m	
Pollution degree	3	
Overvoltage category		
Electrical endurance (switching cycles)	200	
Mechanical endurance (switching cycles)	800	
Degree of protection	IP20	
Cable terminal	Flat terminal M10	
Cable lug (DIN 46 235)	1 x 25-240mm <sup>2</sup>	
Tightening torque	30-35Nm	
DESCRIPTION	AVAILABLE ORDER NO.	
Size 2, 3-pole, 400A, M10	ISA05250	



Page 63 NH (HRC) fuse loadbreak-disconnectors size 2 (400 A), for surface mounting, series ARROW BLUE



#### Schrack-Info

- Integrated infringe-protection side and top
- Contactless fuse take out
- Closing part sealable and lockable
- Park position for closing part
- Patented voltage measuring slots, tool-bound open, without tools close

#### ISA05250-A

Standard	IEC/DIN/EN 60947-3
For LV HRC fuse-links acc. to DIN VDE 0636-2	size 2
Rated operational voltage U	690VAC / 440V-DC
Rated operational current <sup>1)</sup>	400A
Conv. free air thermal current with fuse-links <sup>1)</sup> I	400A
Conv. free air thermal current with solid-links <sup>1)</sup> I <sub>4</sub>	520A
Rated frequency f	40-60Hz
Rated insulation voltage U	800V-AC
Total power loss at 1th (without fuse-links) P	22W
Rated impulse withstand voltage U <sub>imp</sub>	8kV
Utilisation category <sup>2)</sup>	AC-23B (400V/400A) <sup>2a)</sup>
	AC-22B (500V/400A) <sup>2a)</sup>
	AC-21B (690V/400A) <sup>2a)</sup>
Rated conditional short-circuit current <sup>2) 3)</sup>	120 kA (500V) <sup>2a)</sup>
	100 (690V) <sup>2a)</sup>
Rated short-time withstand current I	10kA(1s)
Max. permis. power loss per fuse-link P	34W
Degree of protection, front side	Operating condition IP20
	With clamp- and lateral cover IP20XC
	switching element open IP10
Ambient temperature 4) Tamb	-25 up to +55 °C
Rated operating mode	Uninterrupted duty
Actuation	dependent manual operation
Mounting position	vertical / horizontal
Altitude	up to 2000 m
Pollution degree	3
Overvoltage category	
Cable terminal	Flat terminal, Bolt diameter M10
	Tightening torque 30-35Nm

<sup>1)</sup> In case of mounting of several units in low voltage switch-gear-combinations, please consider rated diversity factors acc. to EN 61439-1.

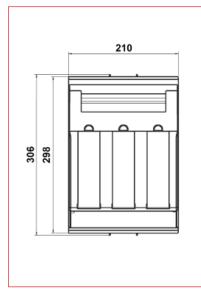
 $^{\rm 2)}$  ...It must be considered a minimum distance to earthed, conductive parts:

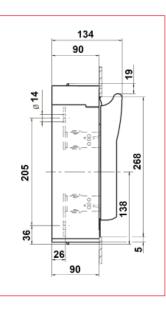
<sup>2a)</sup> Lateral: 20mm / Above: 50mm / Behind: 0mm

<sup>3)</sup> Type tested with LV-HRC-fuse-links characteristic gG.

<sup>4)</sup> 35°C Normal temperature, at 55°C with reduced operating current

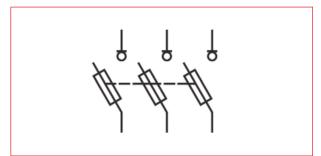
#### Dimensions





NH (HRC) fuse loadbreak-disconnectors size 2 (400 A), for surface mounting, series ARROW BLUE

ISA05250 Wiring diagram



DESCRIPTION	AVAILABLE	ORDER NO.
Size 2, 3-pole, 400A, M10	388 0-0	ISA05250-A

MH (HRC) fuse loadbreak-disconnectors size 3 (630 A), for surface mounting, series ARROW II



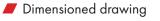
ISA05295

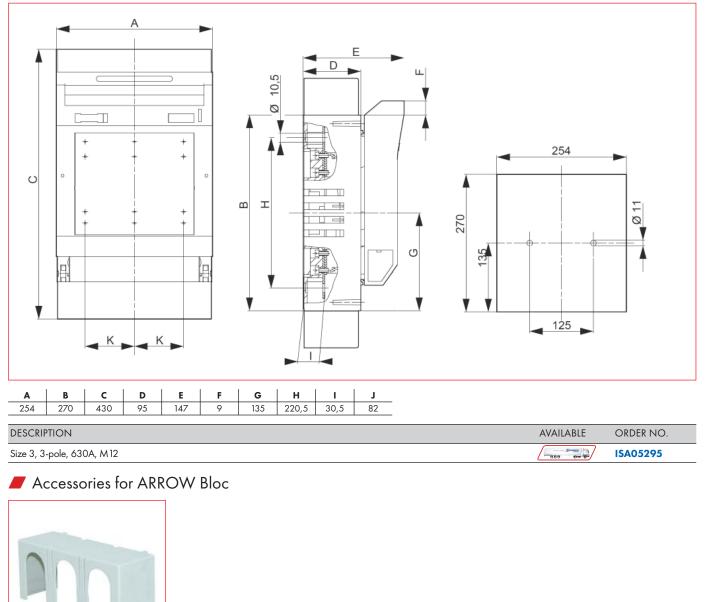
Size	NH3
Poles	3
Applicable for fuse-links	NH2 and NH3
Type of installation	Baseplate mounting
Switching mode	3pole switchable
Rated operating voltage	690V
Rated operating current	630A
Conv. free air thermal current with fuse-links	630A
Conv. free air thermal current with solid links	1000A
Rated impulse voltage	8kV
Rated isolation voltage	800V
Rated frequency	40 - 60Hz
Total power loss at 1th (without fuse-link)	52W
Utilisation category	AC-22B (500V/630A)
	AC-22B (690V/500A)
	DC-21B (440V/500A)
	DC-22B (220V/630A)
Rated conditional short-circuit current	80kA (AC 500V)
Max. permissible power dissipation per fuse-link	48W
Ambient temperature	-25 up to +55°C
	>35°C derating of rated current required
Type of Actuation	Dependent manual operation
Mounting position	vertical / horizontal
Altitude	2000m
Pollution degree	3
Overvoltage category	
Electrical endurance (switching cycles)	200
Mechanical endurance (switching cycles)	800
Degree of protection	IP20
Cable terminal	Flat terminal M10
Cable lug (DIN 46 235)	1 x 25-300mm <sup>2</sup>
Tightening torque	30-35mm <sup>2</sup>

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NH (HRC) fuse loadbreak-disconnectors size 3 (630 A), for surface mounting, series ARROW II





ISA05700

DESCRIPTION	AVAILABLE	ORDER NO.
COVER CAP F.TOP TERMINAL	555 555	ISA05700



### Accessories for ARROW BLUE



### Schrack-Info

- Accessories for NH (HRC) fuse-load-breaker, series ARROW BLUE
- For size 00, 1, 2 and 3

ISA05335

DESCRIPTION	AVAILABLE	ORDER NO.
Single clamp strap size 00	333 0- 0-	ISA05300
Prism clamp 1,5-70mm <sup>2</sup> for size 00		ISA05335
Cover cap for ARROW BLUE size 00	333 0- 0	ISA05700-A
Microswitch for ARROW BLUE size 00		ISA05324-A
Boxterminal ARROW BLUE size 1		ISA05744-A
Boxterminal ARROW BLUE size 2 and size 3		ISA05745-A
Terminal cover ARROW BLUE size 00 top or bottom		ISA05701-A
Terminal cover ARROW BLUE size 1		ISA05702-A
Terminal cover ARROW BLUE size 2		ISA05703-A
Height compensation adapter 70 mm to 90 mm for ARROW BLUE size 00		ISA05705-A
Lateral compensation profile 70 mm to 90 mm for ARROW BLUE size 00		ISA05706-A
Terminal cover extension 39 mm or 34 mm for ARROW BLUE size 00		ISA05707-A
Terminal cover extension 32 mm for ARROW BLUE size 00		ISA05708-A
Overlap protector for busbar system 39 mm or 34 mm for ARROW BLUE size 00		ISA05709-A
Overlap protector for busbar system 32 mm for ARROW BLUE size 00		ISA05710-A
Overlap protector for busbar system for output-side 39 mm or 34 mm for ARROW BLUE size 00		ISA05711-A
Overlap protector for busbar system for output-side 32 mm for ARROW BLUE size 00		ISA05712-A
Overlap protector for busbar system 39 mm or 34 mm for ARROW BLUE size 1		ISA05713-A
Overlap protector for busbar system 32 mm for ARROW BLUE size 1		ISA05714-A
Overlap protector for busbar system 39 mm or 34 mm for ARROW BLUE size 2		ISA05715-A
Overlap protector for busbar system 32 mm for ARROW BLUE size 2		ISA05716-A
Cover support top/bottom 60 and 70 mm for ARROW BLUE size 00		ISA05719-A
Cover support sied 32, 60 and 70 mm for ARROW BLUE size 00		ISA05720-A
Cover support top/bottom 60 and 70 mm for ARROW BLUE size 1-3		ISA05721-A
Clip terminal ARROW BLUE size 1	555	ISA05740-A
Clip terminal ARROW BLUE size 2		ISA05741-A
Clamp terminal ARROW BLUE size 1	555	ISA05742-A
Clamp terminal ARROW BLUE size 2		ISA05743-A

Order no. blue: on stock, usually ready for delivery on the day of order



# Fuse base size 00 (160 A), for surface mounting, series ARROW II / ARROW

Schrack-Info

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ISA050003

### Technical Data

Size	NH00
Applicable for fuse-links	NH000 and NH00
Rated operating voltage	690V
Rated operating current	160A
Conv. free air thermal current with fuse-links	160A
Conv. free air thermal current with solid links	210A
Rated frequency	40 - 60Hz
Max. permissible power dissipation per fuse-link	12W
Duty type	Continuous duty
Mounting position	vertical / horizontal
Altitude	2000m
Pollution degree	3
Overvoltage category	
Degree of protection	IPOO
Cable terminal	Flat terminal M8 - Cable lug 1x 10-95mm² (max. 25mm width) - 12-15Nm
	clip terminal - 1,5-70 Cu - 2,6Nm
	V-terminal - 10-50re, 10-50rm, 35-70sm, 50-95se
Protective cover	Yes

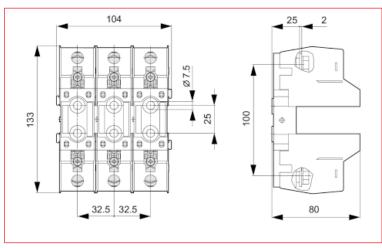
Dimensions according ÖNORM E6021 and DIN 43.620

• 3-pole version with 2 section-plates ÖVE-SN40, IEC 269, VDE 0636, SEV 1018

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Page

### ISA05039 Dimensions



DESCRIPTION	AVAILABLE	ORDER NO.
Size 00, 2 clamps, 1 pole		ISA05001
HRC-fuse-base size 00, 2 clamps, 1 pole		IS505001
Size 00, V/clamp 1 pole		ISA05003
HRC-fuse-base size 00 V/M8		ISA05037
HRC-fuse-base size00, 2XM8	388 0- 5	ISA05039
Phase separation plate size 00, type TW5		IS505047



# Fuse base size 1-2 (250/400 A), for surface mounting, series ARROW II

### Schrack-Info

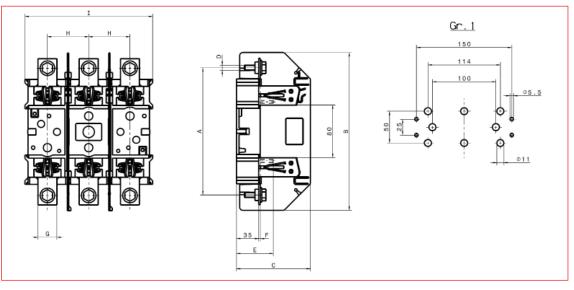
- NH-fuse-base for baseplate mounting
- NH-fuses size 1 or size 2 according DIN VDE 0636-2 / IEC 60269-2

#### Technical data

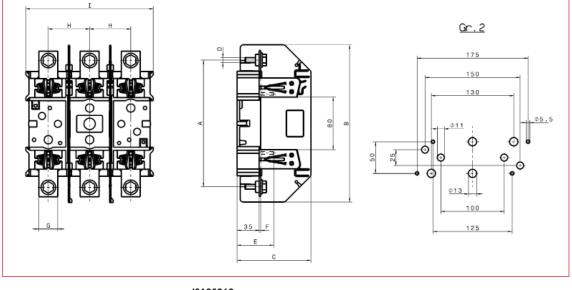
Size	NH1 - size 1	NH2 - size 2	
Poles	3	3	
Applicable for fuse-links	NH1	NH2	
Rated operating voltage	690V	690V	
Rated operating current	250A	400A	
Conv. free air thermal current with fuse-links	250A	400A	
Conv. free air thermal current with solid links	325A	520A	
Rated frequency	40 - 60Hz	40 - 60Hz	
Max. permissible power dissipation per fuse-link	32W	45W	
Ambient temperature	-25 up to +55°C	-25 up to +55°C	
	>35°C derating of rated current required	>35°C derating of rated current required	
Duty type	Continuous duty	Continuous duty	
Mounting position	vertical / horizontal	vertical / horizontal	
Altitude	2000m	2000m	
Pollution degree	3	3	
Overvoltage category			
Degree of protection	IPOO	IPOO	
Cable terminal	Flat terminal M10	Flat terminal M10	
Protective cover	No	No	



- Fuse base size 1-2 (250/400 A), for surface mounting, series ARROW II
- ISA05060 Dimensions



ISA05061 Dimensions



ISA05060									
Туре	A	В	С	D	E	F	G	Н	I
NH1	175	200	104	M10	58	2,5	25	58	180

				ISA05061					
Туре	A	В	С	D	E	F	G	Н	I
NH2	200	230	117	M10	63	2,5	30	66	204

DESCRIPTION	AVAILABLE	ORDER NO.
HRC-fuse-base size 1 2XM10 3P, 250A		ISA05060
HRC-fuse-base size 2 2XM10 3P, 400A		ISA05061



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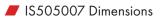
# Neutral bracket size 00, for surface mounting, series ARROW II / ARROW

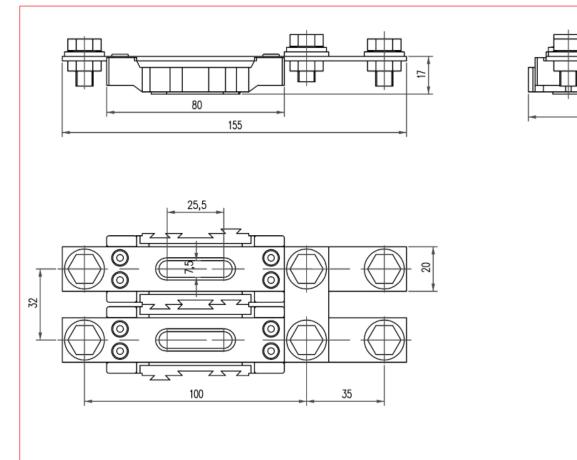




Schrack-Info

Neutral-conductors for NH-fuse-base for mounting-plate.





DESCRIPTION	AVAILABLE	ORDER NO.
Size 00, 2 clamps		ISA05005
Size 00, V/clamp		ISA05006
HRC-neutral-conductor size 00, 2XM8	333 0-0	ISA05043
HRC-neutral-conductor size 00, M8/clamp		IS505004
HRC-neutral-conductor size 00, 2 pole, 6 x M8	355 0-0-	IS505007
HRC-neutral-conductor size 00, V/clamp		IS505006
HRC-neutral-conductor size 00, 2 pole, 4 x M8	333 0-5	1\$505008

## Accessories for fuse-bases





IS505200

IS505201

Schrack-Info Accessories suitable for NH-fuse-bases

DESCRIPTION	AVAILABLE	ORDER NO.
Phase separation plate size 00	888	ISA05047
Phase separation plate size 00, short type		ISA05088
Phase separation plate size 1		ISA05058
Cover for HRC-base size 00		ISA05090
Cover for HRC-base size 1	555 0-0	ISA05091
Cover for HRC-base size 2		ISA05092
V-connection terminal VK160, 35-70mm <sup>2</sup>		1\$505040
Connecting Strap 2 x M 8 - 1 x V-terminal 2 x 35-70 mm2		1\$505099
V-double terminal 2x35-70mm <sup>2</sup> sm		1\$505018
V-connection terminal 2 x 50-185mm <sup>2</sup>		15505219
V-connection-bridge VB 2x50/2		18505102
V-connection-bridge VB 1x50/3		18505104
Connecting Strap M8 - 1 x V-terminal, VK160		1\$505098
V-connection terminal VK 400, 35-185mm <sup>2</sup>		1\$505200
Insulating cap for V-terminal VK400	000 000	ISA05193
V-connection tap M12		1\$505201
Busbar 1 m/20 x 3 mm holed, 8,5 Ø, hole distance 32 mm (CU-weight 540 g)	800 0-0-	1\$505100
Fuse handle for HRC-fuses		ISA05211
Insulating cap for V-terminal VK160 (IS505040)		1\$505028
Phase separation plate size 00, type short TW5		IS505088



# ✓ Fuse base size 000 (100 A), for 60mm busbar-system, series ARROW II



### Schrack-Info

- Compact design, 63mm installation width
- Snap on installation without screws
- For busbars with 12-30 mm width and 5-10 mm thickness

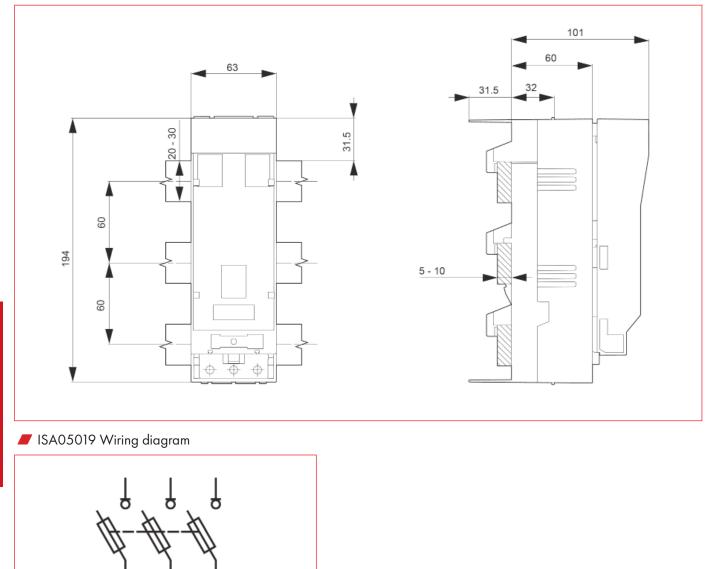
ISA05019

Size	NH000	
Poles	3	
Applicable for fuse-links	NH000	
Standard	IEC/EN 60 947-3	
	Busbar mounting	
Type of installation	•	
Busbar distance	60mm	
Switching mode	3pole switchable	
Rated operating voltage	500V	
Rated operating current	125A	
Conv. free air thermal current with fuse-links	125A	
Conv. free air thermal current with solid links	160A	
Rated impulse voltage	8kV	
Rated isolation voltage	500V	
Rated frequency	40 - 60Hz	
Total power loss at Ith (without fuse-link)	18W	
Utilisation category	AC-22B (500V/125A)	
	DC-22B (220V/100A)	
Rated conditional short-circuit current	50kA (AC 500V)	
Max. permissible power dissipation per fuse-link	8W	
Ambient temperature	-25 up to +55°C	
	>35°C derating of rated current required	
Type of Actuation	Dependent manual operation	
Mounting position	vertical	
Altitude	2000m	
Pollution degree	3	
Overvoltage category		
Electrical endurance (switching cycles)	200	
Mechanical endurance (switching cycles)	1400	
Degree of protection	IP20	
Direction of cable terminal	bottom side	
Terminal type	Elevator-clamp	
Clamping range	1.5 - 50mm <sup>2</sup> Cu	
Isolation strength	max. 20mm	
Tightening torque	2,6Nm	



✓ Fuse base size 000 (100 A), for 60mm busbar-system, series ARROW II





DESCRIPTION	AVAILABLE	ORDER NO.
Arrow Bloc C00 for 60mm busbar inout bottom	888 000	ISA05019

Page **74** 



# ✓ Fuse base size 000 (100 A), for 60mm busbar-system, 54mm wide



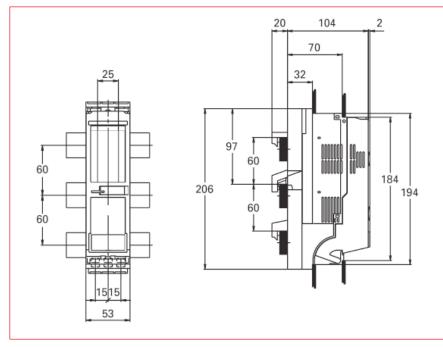
### Schrack-Info

- Device width 54 mm
- Touch protection IP 3x
- Lid lock combined with sealing
- Connection box terminal up to 2.5-50mm<sup>2</sup>

IS505019-B

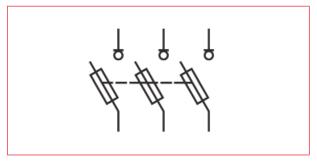
Size	000
Poles /Phases	3
Conventional thermal current in free air with NH-fuse links I <sub>th</sub>	100A
Busbar system	60mm
Busbar high	20-30mm
Busbar thickness	5 or 10mm
Standard	IEC/EN 60947-3
Utilisation category / Rated operation voltage U <sub>e</sub> / Rated operation current I <sub>e</sub>	AC 22 B / U = 690V / I = 100A
	DC 21 B / U = 440V / I = 100A
Rated operation voltage U <sub>e</sub>	690V
Rated isolation voltage U	750V
Rated impulse withstand voltage U_ima	8kV
Rated frequency	50-60Hz
Maximum permissible rated power output of the NH fuse links P <sub>n</sub>	12W
Protection class	IP20
Pollution degree	3
Rated duty continuous operation	non-stop operation
Rated conditional short circuit current for protection by fuses:	AC 50kA (690V/500V)
	DC 25kA (220V/440V)
Electrical live (operations)	300
Mechanical live (operations)	1700
Overvoltage category	Ш
Standard connection	lift-terminal
Terminal capacity	1,5-50mm <sup>2</sup>

### Dimensions





- Fuse base size 000 (100 A), for 60mm busbar-system, 54mm wide
- IS505019 Wiring diagram



DESCRIPTION	AVAILABLE	ORDER NO.
Arrow Bloc C00 for 60mm busbar system, output bottom	000 <b>0-0</b>	IS505019-B

### Fuse base size 00 (160 A), for 60mm busbar-system, series ARROW II



Size	NH00		
Poles	3		
Applicable for fuse-links	NH000 and NH00		
ype of installation	Busbar mounting		
Busbar distance	40, 50 and 60mm		
Switching mode	3pole switchable		
Rated operating voltage	690V		
lated operating current	160A		
Conv. free air thermal current with fuse-links	160A		
Conv. free air thermal current with solid links	210A		
tated impulse voltage	8kV		
Rated isolation voltage	800V		
lated frequency	40 - 60Hz		
Utilisation category	AC-22B (500V/160A)		
	AC-22B (690V/100A)		
	DC-21B (440V/100A)		
	DC-22B (220V/160A)		
Rated conditional short-circuit current	50kA (AC 500V)		
Λαx. permissible power dissipation per fuse-link	12W		
Ambient temperature	-25 up to +55°C		
	>35°C derating of rated current required		
ype of Actuation	Dependent manual operation		
Aounting position	vertical / horizontal		
Altitude	2000m		
'ollution degree	3		
Dvervoltage category			
Electrical endurance (switching cycles)	200		
Mechanical endurance (switching cycles)	1400		
Degree of protection	IP20		
Direction of cable terminal	variable		
Cable terminal	Flat terminal M8		
DESCRIPTION	AVAILABLE	ORDER NO.	
Size 00, 3-pole, 160A, M8, with window lock		ISA05223F	



## Fuse base size 00 (160 A), for busbar, series ARROW BLUE



#### Schrack-Info

- Output direction from top to bottom is easy and quickly to change
- 1-point quick-fixing
- Integrated infringe-protection side and top
- Contactless fuse take out
- Closing part sealable and lockable
- Park position for closing part
- Patented voltage measuring slots, tool-bound open, without tools close

#### ISA05223-A

or LV HRC fuse-links acc. to DIN VDE 0636-2	Size 000/00	
Standard	IEC/DIN/EN 60947-3 / VDE 0660-107	
Rated operational voltage U	690V-AC	
τ. ·	440V-DC	
Rated operational current <sup>1)</sup> I	160 A	
Rated frequency f	40 - 60 Hz	
Rated insulation voltage U	800V-AC	
otal power loss at I <sub>th</sub> (without fuse-links) P <sub>v</sub>	14W	
Rated impulse withstand voltage U <sub>inn</sub>	8kV	
Jtilisation category <sup>2)</sup>	AC-23B (400V/160A) <sup>2b)</sup>	
	AC-22B (500V/160A) <sup>2b)</sup>	
	AC-21B (690V/160A) <sup>2b)</sup>	
	DC-22B (250V/160A) <sup>2b)</sup>	
	DC-21B (440V/160A) <sup>2c)</sup>	
Rated conditional short-circuit current <sup>2) 3)</sup>	120 kA (500V) <sup>2b)</sup>	
	100 (690V) <sup>2b)</sup>	
Rated short-time withstand current Icw	7 kA (1s)	
Max. permis. power loss per fuse-link Pa	12 W	
Degree of protection	Front side, operating condition IP20	
	With clamp- and lateral cover IP20XC	
	switching element open IP10	
Ambient temperature 4) Tamb	-25 up to +55 °C	
Rated operating mode	Uninterrupted duty	
Actuation	dependent manual operation	
Aounting position	vertical / horizontal	
Altitude	up to 2000 m	
Pollution degree	3	
Dvervoltage category		
Cable terminal, flat terminal	Bolt diameter M8	
	Tightening torque M <sub>a</sub> 12-15 Nm	
Cable terminal, clip terminal	Clamping cross-section conductor round 1,5 - 70 mm <sup>2</sup> copper	
	busbar 6 x 9 x 0,8	

<sup>1)</sup> In case of mounting of several units in low voltage switch-gear-combinations, please consider rated diversity factors acc. to EN 61439-1.

<sup>2)</sup> It must be considered a minimum distance to earthed, conductive parts:

<sup>2b)</sup> Lateral: 20mm / Above: 50mm

<sup>2c]</sup> Lateral: 50mm / Above: 100mm

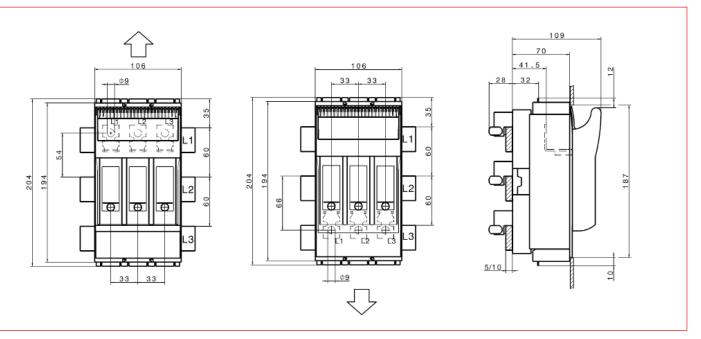
<sup>3)</sup> Type tested with LV-HRC-fuse-links characteristic gG.

<sup>4)</sup> 35°C Normal temperature, at 55°C with reduced operating current

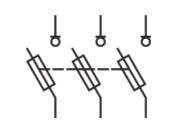


# Fuse base size 00 (160 A), for busbar, series ARROW BLUE

Dimensions



ISA05223-A Wiring diagram



DESCRIPTION	AVAILABLE	ORDER NO.
Size 00, 3-pole, 160A, M8	000 0-0-	ISA05223-A
Single clamp strap size 00	000 000	ISA05300
Prism clamp 1,5-70mm² for size 00	000 000	ISA05335



# Fuse base size 1 (250 A), for 60mm busbar-system, series ARROW II



ISA05290

### Technical Data

Size	NH1	NH	2
Poles:	3	3	
Type of installation	Busbar mounting	Busbar m	nounting
Busbar-system	60 mm	60 r	nm
Switching mode	3- pole switchable	3- pole sw	vitchable
Rated operating voltage	690 V	690	V
Rated operating current	250 A	400	A
Utilisation category	AC-22B (500 V / 250 A)	AC-22B (500	V / 400 A)
	AC-22B (690 V / 200 A)	AC-22B (690	) V / 315 A)
	DC-21B (440 V / 200 A)	DC-21B (440	) V / 315 A)
	DC-22B (220 V / 250 A)	DC-22B (220	V / 400 A)
Rated conditional short-circuit current	50 kA (AC 500 V)	80 kA (AC	C 500 V)
Max. permissible power dissipation per fuse-link	23 W	34	W
Ambient temperature	-25 up to + 55 °C		
	> 35 °C derating of r	rated current required	
Type of Actuation	Dependent manual operation		
Mounting position	vertical / horizontal		
Altitude	2000 m		
Pollution degree		3	
Overvoltage category			
Degree of protection	IP:	20	
Connection side	top or	bottom	
Cable terminal	Flat terminal M10	Flat termi	nal M10
Cable lug M8 (DIN 46 235)	1 x 25-150 mm2 <lb: sup=""></lb:>	1 x 25-240 mi	m2 <ib: sup=""></ib:>
Busbar size	30 x 10	30 x	10
Torque	30-35 Nm	30-35	Nm
DESCRIPTION		AVAILABLE	ORDER NO.
Size 1, 3-pole, 250A, M10, outlet bottom			ISA05290
Size 1, 3-pole, 250A, M10, outlet top			ISA05291





## Fuse base size 1 (250 A), for 60mm busbar-system, series ARROW BLUE



### Schrack-Info

- Output direction from top to bottom is easy and quickly to change
- 1-point quick-fixing
- Integrated infringe-protection side and top
- Contactless fuse take out
- Closing part sealable and lockable
- Park position for closing part
- Patented voltage measuring slots, tool-bound open, without tools close

#### ISA05290-A

Standard	IEC/DIN/EN 60947-3
For LV HRC fuse-links acc. to DIN VDE 0636-2	size 1
Rated operational voltage U	690VAC / 440V-DC
Rated operational current <sup>1)</sup>	250A
Conv. free air thermal current with fuse-links <sup>1)</sup> I <sub>th</sub>	250A
Rated frequency f	40-60Hz
Rated insulation voltage U	800V-AC
Total power loss at Ith (without fuse-links) P <sub>v</sub>	22W
Rated impulse withstand voltage U	8kV
Utilisation category <sup>2)</sup>	AC-23B (400V/250A) <sup>2b)</sup>
	AC-22B (500V/250A) <sup>2b)</sup>
	AC-21B (690V/250A) 2b)
Rated conditional short-circuit current <sup>2) 3)</sup>	120 kA (500V) <sup>2b)</sup>
	100 (690V) <sup>2b)</sup>
Rated short-time withstand current I	10kA(1s)
Max. permis. power loss per fuse-link P	23W
Degree of protection, front side	Operating condition IP20
	With clamp- and lateral cover IP20XC
	switching element open IP10
Ambient temperature 4) Tamb	-25 up to +55 °C
Rated operating mode	Uninterrupted duty
Actuation	dependent manual operation
Mounting position	vertical / horizontal
Altitude	up to 2000 m
Pollution degree	3
Overvoltage category	II
Cable terminal	Flat terminal, Bolt diameter M10
	Tightening torque 30-35Nm

<sup>1)</sup> In case of mounting of several units in low voltage switch-gear-combinations, please consider rated diversity factors acc. to EN 61439-1.

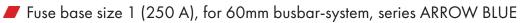
 $^{\mbox{\tiny 2)}}$  It must be considered a minimum distance to earthed, conductive parts:

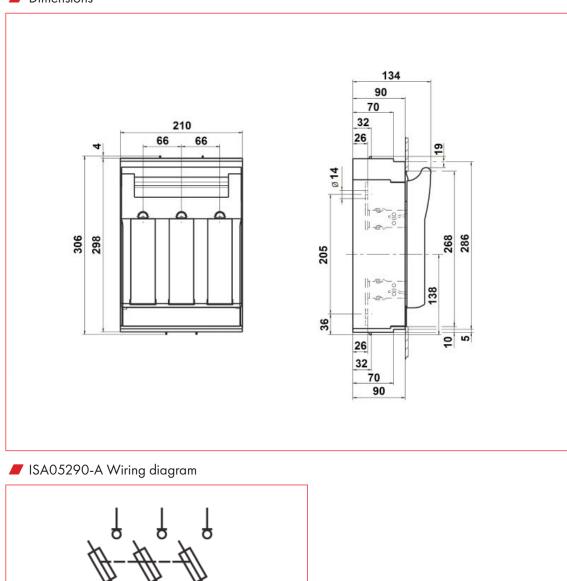
<sup>2b)</sup> Lateral: 20mm / Above: 50mm

<sup>3)</sup> Type tested with LV-HRC-fuse-links characteristic gG.

 $^{4)}\,35\,^{\circ}\text{C}$  Normal temperature, at  $55\,^{\circ}\text{C}$  with reduced operating current







### Dimensions

DESCRIPTION	AVAILABLE	ORDER NO.
Size 1, 3-pole, 250A, M10, outlet top or bottom	333 0-0	ISA05290-A





✓ Fuse base size 2 (400 A), for 60mm busbar-system, series ARROW II



#### ISA05251

#### Technical Data

Size	NH1	NH2
Poles:	3	3
Type of installation	Busbar mounting	Busbar mounting
Busbar-system	60 mm	60 mm
Switching mode	3- pole switchable	3- pole switchable
Rated operating voltage	690 V	690 V
Rated operating current	250 A	400 A
Utilisation category	AC-22B (500 V / 250 A)	AC-22B (500 V / 400 A)
	AC-22B (690 V / 200 A)	AC-22B (690 V / 315 A)
	DC-21B (440 V / 200 A)	DC-21B (440 V / 315 A)
	DC-22B (220 V / 250 A)	DC-22B (220 V / 400 A)
Rated conditional short-circuit current	50 kA (AC 500 V)	80 kA (AC 500 V)
Max. permissible power dissipation per fuse-link	23 W	34 W
Ambient temperature	-25 up to + 55 °C	
	> 35 °C derating of rated current required	
Type of Actuation	Dependent manual operation	
Mounting position	vertical / horizontal	
Altitude	2000 m	
Pollution degree	3	
Overvoltage category		
Degree of protection	IP	20
Connection side	top or	bottom
Cable terminal	Flat terminal M10	Flat terminal M10
Cable lug M8 (DIN 46 235)	1 x 25-150 mm2 <ib: sup=""></ib:>	1 x 25-240 mm2 <ib: sup=""></ib:>
Busbar size	30 x 10	30 x 10
Torque	30-35 Nm	30-35 Nm
DESCRIPTION		AVAILABLE ORDER NO.
Size 2, 3-pole, 400A, M10, outlet bottom		ISA05251



## Fuse base size 2 (400 A), for 60mm busbar-system, series ARROW BLUE



#### Schrack-Info

- Output direction from top to bottom is easy and quickly to change
- 1-point quick-fixing
- Integrated infringe-protection side and top
- Contactless fuse take out
- Closing part sealable and lockable
- Park position for closing part
- Patented voltage measuring slots, tool-bound open, without tools close

Standard	IEC/DIN/EN 60947-3	
For LV HRC fuse-links acc. to DIN VDE 0636-2	size 2	
Rated operational voltage U	690VAC / 440 V DC	
Rated operational current <sup>1)</sup>	400A	
Conv. free air thermal current with fuse-links <sup>1)</sup> I <sub>eb</sub>	400A	
Rated frequency f	40-60Hz	
Rated insulation voltage U	800 V AC	
Total power loss at Ith (without fuse-links) P <sub>v</sub>	22W	
Rated impulse withstand voltage U <sub>imp</sub>	8kV	
Utilisation category <sup>2)</sup>	AC-23B (400V/400A) <sup>2b)</sup>	
	AC-22B (500V/400A) <sup>2b)</sup>	
	AC-21B (690V/400A) <sup>2b)</sup>	
Rated conditional short-circuit current <sup>2) 3)</sup>	120 kA (500V) <sup>2b)</sup>	
	100 (690V) <sup>2b)</sup>	
Rated short-time withstand current I	10kA(1s)	
Max. permis. power loss per fuse-link P <sub>a</sub>	34W	
Degree of protection, front side	Operating condition IP20	
	With clamp- and lateral cover IP20XC	
	switching element open IP10	
Ambient temperature 4) Tamb	-25 up to +55 °C	
Rated operating mode	Uninterrupted duty	
Actuation	dependent manual operation	
Mounting position	vertical / horizontal	
Altitude	up to 2000 m	
Pollution degree	3	
Overvoltage category		
Cable terminal	Flat terminal, Bolt diameter M10	
	Tightening torque 30-35Nm	

<sup>1)</sup> In case of mounting of several units in low voltage switch-gear-combinations, please consider rated diversity factors acc. to EN 61439-1.

<sup>2)</sup> It must be considered a minimum distance to earthed, conductive parts:

<sup>2b)</sup> Lateral: 20mm / Above: 50mm

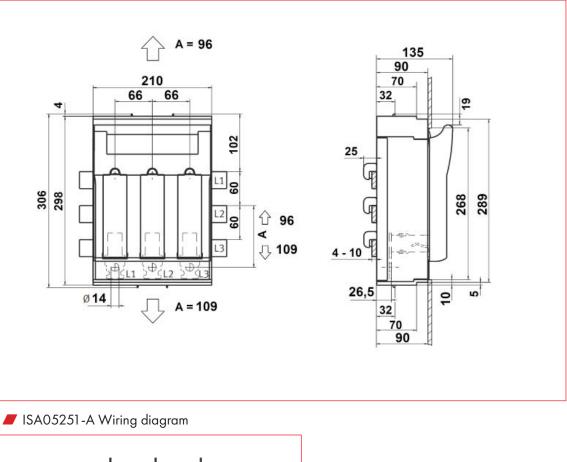
<sup>3)</sup> Type tested with LV-HRC-fuse-links characteristic gG.

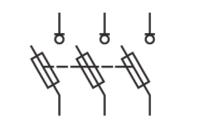
 $^{\rm 4)}\,35\,^{\circ}\text{C}$  Normal temperature, at  $55\,^{\circ}\text{C}$  with reduced operating current



Fuse base size 2 (400 A), for 60mm busbar-system, series ARROW BLUE







DESCRIPTION	AVAILABLE	ORDER NO.
Size 2, 3-pole, 400A, M10, outlet top or bottom	000 000	ISA05251-A



Accessories for 60mm busbar-system, series ARROW BLUE



ISA05335

DESCRIPTION	AVAILABLE	ORDER NO.
Single clamp strap size 00	000 0-0-	ISA05300
Clip terminal ARROW BLUE size 1		ISA05740-A
Overlap protector for busbar system 39 mm or 34 mm for ARROW BLUE size 00		ISA05709-A
Prism clamp 1,5-70mm <sup>2</sup> for size 00		ISA05335
Overlap protector for busbar system 32 mm for ARROW BLUE size 00		ISA05710-A
Clamp terminal ARROW BLUE size 1		ISA05742-A
Overlap protector for busbar system for output-side 39 mm or 34 mm for ARROW BLUE size 00		ISA05711-A
Boxterminal ARROW BLUE size 1		ISA05744-A
Clip terminal ARROW BLUE size 2	353	ISA05741-A
Overlap protector for busbar system for output-side 32 mm for ARROW BLUE size 00		ISA05712-A
Overlap protector for busbar system 39 mm or 34 mm for ARROW BLUE size 1		ISA05713-A
Clamp terminal ARROW BLUE size 2		ISA05743-A
Boxterminal ARROW BLUE size 2 and size 3		ISA05745-A
Overlap protector for busbar system 32 mm for ARROW BLUE size 1		ISA05714-A
Overlap protector for busbar system 39 mm or 34 mm for ARROW BLUE size 2		ISA05715-A
Overlap protector for busbar system 32 mm for ARROW BLUE size 2		ISA05716-A



Fuse loadbreak-disconnectors size 00 (160A), for 60mm busbar-system, series ARROW II



### Schrack-Info

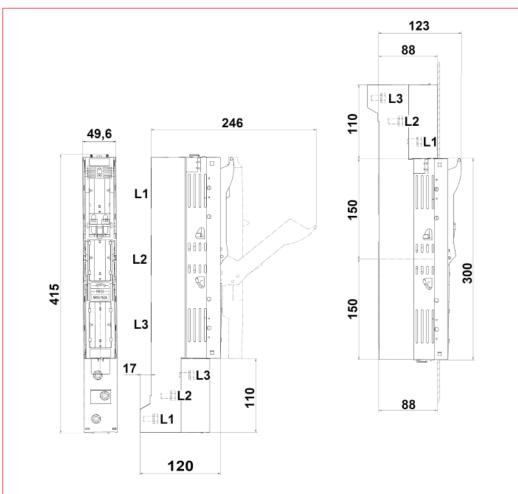
- NH-strip-type fuse-switch-disconnector with adapter for 60mm busbar-system
- With cable connection at bottom side, optional at top side
- Width 50mm, for permanent mounting technology
- All parts of LSL made from halogenfree, self-extinguishing material
- Protection degree IP30, from front side, device closed, with clamp- and side cover
- Type label visible in built-in condition
- Lockable in closed position with up to 2 padlocks

#### ISA05260

Size	NH00
Standards	IEC/EN60947-3
Busbar distance	60mm
Poles	3
Switching mode	3pole switchable
Applicable for fuse-links	NH000 and NH00
Rated operating voltage	690V
Rated operating current	160A
Conv. free air thermal current with fuse-links	160A
Conv. free air thermal current with solid links	210A
Rated impulse voltage	8kV
Rated isolation voltage	800V
Rated frequency	50 - 60Hz
Total power loss at Ith (without fuse-link)	18W
Utilisation category	AC-22B (100A/690V)
	AC-22B (160A/400V)
	AC-22B (160A/500V)
Rated conditional short-circuit current	80kA (AC 500V)
Max. permissible power dissipation per fuse-link	12W
Ambient temperature	-25 up to +55°C
	>35°C derating of rated current required
Type of Actuation	Dependent manual operation
Mounting position	user-defined
Pollution degree	3
Overvoltage category	
Electrical endurance (switching cycles)	200
Mechanical endurance (switching cycles)	1400
Degree of protection	IP30
Cable terminal	Flat terminal M8
Cable lug (DIN 46 235)	1 x 10-95mm² (max. 25mm width)
Tightening torque	12-15 Nm

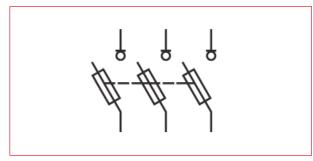


Fuse loadbreak-disconnectors size 00 (160A), for 60mm busbar-system, series ARROW II





ISA05260 Wiring diagram



DESCRIPTION	AVAILABLE	ORDER NO.
Size 00, 3-pole, 160A, M8		ISA05260





Fuse loadbreak-disconnectors size 00 (160A), for 60mm busbar-system, series ARROW II



### Schrack-Info

- NH-strip-type fuse-switch-disconnector for 100mm busbar-system
- With cable connection at bottom side, optional at top side
- Width 50mm, for permanent mounting technology
- All parts of LSL made from halogenfree, self-extinguishing material
- Protection degree IP30, from front side, device closed, with clamp- and side cover
- Type label visible in built-in condition
- Lockable in closed position with up to 2 padlocks

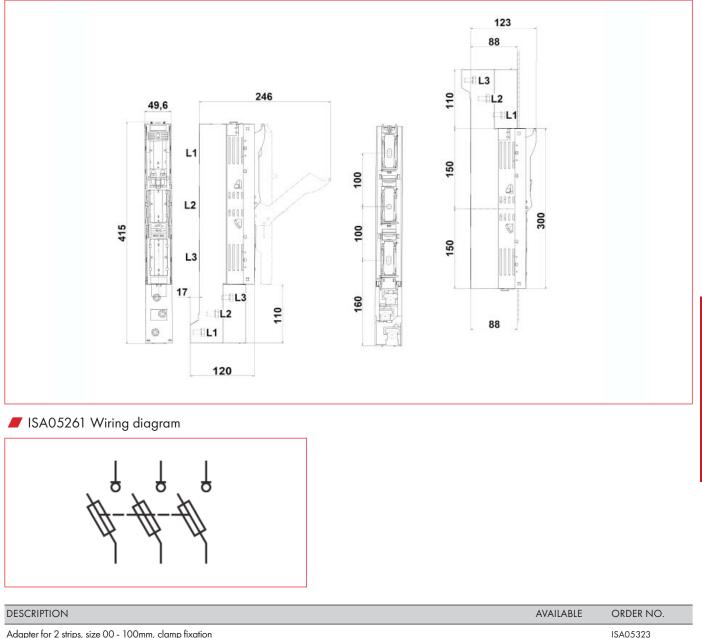
#### ISA05261

Size	NH00
Standards	IEC/EN60947-3
Busbar distance	100mm
Poles	3
Switching mode	3pole switchable
Applicable for fuse-links	NH000 and NH00
Rated operating voltage	690V
Rated operating current	160A
Current measurement	No
Conv. free air thermal current with fuse-links	160A
Conv. free air thermal current with solid links	210A
Rated impulse voltage	8kV
Rated isolation voltage	800V
Rated frequency	50 - 60Hz
Total power loss at Ith (without fuse-link)	18W
Utilisation category	AC-22B (100A/690V)
	AC-22B (160A/400V)
	AC-22B (160A/500V)
Rated conditional short-circuit current	80kA (AC 500V)
Max. permissible power dissipation per fuse-link	12W
Ambient temperature	-25 up to +55°C
	>35°C derating of rated current required
Type of Actuation	Dependent manual operation
Mounting position	user-defined
Pollution degree	3
Overvoltage category	
Electrical endurance (switching cycles)	200
Mechanical endurance (switching cycles)	1400
Degree of protection	IP30
Cable terminal	Flat terminal M8
Cable lug (DIN 46 235)	1 x 10-95mm² (max. 25mm width)
Tightening torque	12-15 Nm



Fuse loadbreak-disconnectors size 00 (160A), for 60mm busbar-system, series ARROW II





DESCRIPTION	AVAILABLE	ORDER NO.
Adapter for 2 strips, size 00 - 100mm, clamp fixation		ISA05323
Cover for Double adapter for busbar 185mm		ISA05328
ARROW LINE size 00, 3 pole, f. 100mm busbar with Window bloc		ISA05261F
Size 00, 3-pole, 160A, M8, for 100 mm busbar-system		ISA05261
Single adapter f/busbar 185mm		ISA05327
Double adapter f/busbar 185mm		ISA05326
Forked clamp HRC-00		ISA05325
Single clamp strap size 00		ISA05300
Prism clamp 1,5-70mm <sup>2</sup> for size 00		ISA05335

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MH-Line (HRC) fuse load-breaker size 00 (160A), for 185mm busbar-system, series ARROW II



## Schrack-Info

- NH-strip-type fuse-switch-disconnector for 185mm busbar-system
- With cable connection at bottom side, optional at top side
- Width 50mm
- All parts of LSL made from halogenfree, self-extinguishing material
- Protection degree IP30, from front side, device closed, with clamp- and side cover
- Type label visible in built-in condition
- Lockable in closed position with up to 2 padlocks

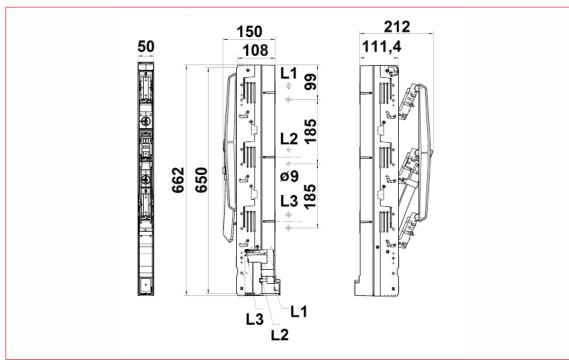
#### ISA05304

Size	NH00	
Standards	IEC/EN 60947-3	
Busbar distance	185mm	
Poles	3	
Switching mode	3pole switchable	
Applicable for fuse-links	NH000 / NH00	
Rated operating voltage	690V	
Rated operating current	160A	
Current measurement	No	
Conv. free air thermal current with fuse-links	160A	
Rated impulse voltage	8kV	
Rated isolation voltage	800V	
Rated frequency	50 - 60Hz	
Total power loss at Ith (without fuse-link)	18W	
Utilisation category	AC-22B (100A/690V)	
	AC-22B (160A/400V)	
	AC-22B (160A/500V)	
Rated conditional short-circuit current	120kA (AC 500V)	
	100kA (AC 690V)	
Max. permissible power dissipation per fuse-link	12W	
Ambient temperature	-25 up to +55°C	
	>35°C derating of rated current required	
Type of Actuation	Dependent manual operation	
Mounting position	user-defined	
Altitude	2000m	
Pollution degree	3	
Overvoltage category	II	
Electrical endurance (switching cycles)	200	
Mechanical endurance (switching cycles)	1400	
Degree of protection	IP30	
Cable terminal	Flat terminal M8	
Cable lug (DIN 46 235)	1 x 10-95mm² (max. 25mm width)	
Tightening torque	12-15Nm	

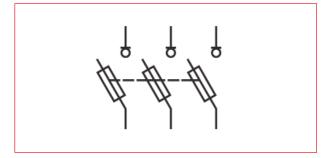


NH-Line (HRC) fuse load-breaker size 00 (160A), for 185mm busbar-system, series ARROW II

## Dimensions



ISA05304 Wiring diagram



DESCRIPTION	AVAILABLE	ORDER NO.
HRC-in-line-fuse ARROW LINE size 00, 3pole, 185mm-system	355 0-0	ISA05304
HRC-fuse-base for 185mm busbar system		ISA05172



# Fuse loadbreak-disconnectors size 1 (250A), for 185mm busbar-system, series ARROW II



ISA05305

### Schrack-Info

- NH-strip-type fuse-switch-disconnector for 185mm busbar-system
- With cable connection at bottom side, optional at top side
- Width 50mm
- All parts of LSL made from halogenfree, self-extinguishing material
- Base part as carrier of current carrying components made from glassfibre reinforced polyester
- Fuse holding contacts with sacrificial electrode and short-circuit interlock
- With access points for safety voltage measurement on the fuse-holding contact
- Protection degree IP30, from front side, device closed, with clamp- and side cover
- Type label visible in built-in condition
- Lockable in closed position and in stand-by position with up to 3 padlocks

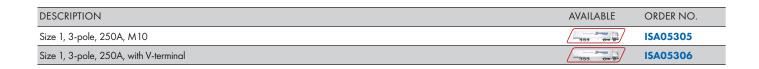
Sandard         IEC/EN 60947-3           Bubar distance         185mm           Poles         3           Switching mode         3poles witchable           Applicable for fuse-link         NH1           Rated operating voltage         690V           Rated operating voltage         690V           Correr fires cirre cirr	Size	NH1
Poles         3           Switching mode         3pole switchable           Applicable for fuse-links         NH1           Rated operating outage         690V           Rated operating current         250A           Correr, free air thermal current with fuse-links         250A           Corw, free air thermal current with fuse-links         400A           Rated inpulse voltage         12kV           Rated inpulse voltage         12kV           Rated inpulse voltage         1000V           Rated inpulse voltage         1000V           Rated inpulse voltage         23W           Ullisation category         AC-228 (250A/500V)           Conditional short-circuit current         120 (AC 500V)(IA)           Rated conditional short-circuit current         120 (AC 500V)(IA)           Rated conditional short-circuit current         120 (AC 500V)(IA)           Rated conditional short-circuit current         23 up to +55 °C           Mounting position         Polerodon           Year of Station         Dependent monuel operation           Mounting position         1400           Oversoltage category         IV           Electrical endurance (switching cycles)         200           Dependent monuel operation         3	Standard	IEC/EN 60947-3
Sitching mode         3pole switchoble           Applicable for fuse-links         NH1           Applicable for fuse-links         690V           Roted operating ourgent         250A           Current intreasurement         No           Conv. free air thermal current with solid links         400A           Roted inputse voltage         12kV           Rote display voltage         12kV           Rote display voltage         1000V           Roted inputse voltage         230A           Cons free air thermal current with solid links         400A           Roted inputse voltage         1000V           Roted inputse voltage         23W           Contact system voltage         23W           Contact system with low power loss         1000V           Roted conditional short-circuit current         23W           Max permissible power dissipation per fuse-link         23W           Acc288 (250A/500V)         23W           Roted conditional short-circuit current         120 (Acc 5000/[kA]           Max permissible power dissipation per fuse-link         32W           Application         250 poi +55°C           Type of Acturition         0eperating expression           Mounting position         250 poi +55°C	Busbar distance	185mm
Applicable for fuse-links         NH1           Rated operating voltage         600V           Rated operating current         250A           Current measurement         No           Conv. free air thermal current with fuse-links         250A           Conv. free air thermal current with solid links         400A           Rated inpulse voltage         1000V           Rated inpulse voltage         1000V           Rated frequency         40 - 60Hz           Cont of the sin thermal current with fuse-linkl         23W           Utilisation voltage         23W           Utilisation category         40 - 60Hz           Contact system         23W           Utilisation category         AC-22B (250A/500V)           Rated conditional short-circuit current         120 (AC 500V)[AA)           Max permissible power dissipation per fuse-link         32W           Utilisation category         -25 up to +55°C           Conduct system         -25 up to +55°C           Conduct	Poles	3
Roled operacting voltage         690V           Rated operacting current         250A           Current messurement         No           Conv. free oir thermal current with fuse-links         250A           Conv. free oir thermal current with solid links         250A           Conv. free oir thermal current with solid links         260A           Roted impulse voltage         12kV           Roted impulse voltage         1000V           Roted insplay voltage         23W           Roted insplay voltage         23W           Context system         DEITA-context system with low power loss           Total power loss of tilh (without fuse-link)         23W           Utilisation category         AC-228 [250A/500V]           Roted conditional short-circuit current         32W           Max permissible power disspation per fuse-link         32W           Ambient temperature         -25 up to +55 °C           Type of Actuation         Dependent monunal operation           Mounting position         vertical / horizontal           Pollution degree         3           Overvoltage category         IN           Electrical and/unone (switching cycles)         200           Mechanical endurance (switching cycles)         1400           Degree of prot	Switching mode	3pole switchable
Rated operading current         250A           Current messurement         No           Corrent messurement         250A           Corrent messurement         250A           Corrent messurement with fuse-links         250A           Corrent messurement with solid links         400A           Rated inpulse voltage         12kV           Rated inpulse voltage         1000V           Rated frequency         40 - 60Hz           Contoct system with low power loss         23W           Utilisation category         23W           Utilisation category         AC-228 (250A/500V)           Rated conditional short-circuit current         120 (AC 500V)[kA]           Max permissible power dissipation per fuse-link         32W           Ambient temperature         -25 up to +55°C           Stated condition gortion         25 up to +55°C           Induming position         Vertical / horizontal           Poteroltage category         NV           Electrical endurance (switching cycles)         3           Overvoltage category         NV           Electrical endurance (switching cycles)         200           Machanical endurance (switching cycles)         1400           Degree of protection         1730           Cab	Applicable for fuse-links	NH1
Current measurement         No           Corv. free air thermal current with fuse-links         250A           Corv. free air thermal current with solid links         400A           Rated inpulse voltage         12kV           Rated inpulse voltage         1000V           Rated fisculation voltage         40.6A           Rated fisculation voltage         1000V           Rated fisculation voltage         0.60Hz           Contact system         DELTA-contact system with low power loss           Contact system         22W           Utilisation category         AC-22B (250A/500V)           AC-22B (250A/400V)         AC-22B (250A/400V)           Rated conditional short-circuit current         120 (AC 500V)(I(A)           Max. permissible power dissipation per fuse-link         32W           Ambient temperature         -25 up to +55°C           Type of Actuation         Dependent manual operation           Mounting position         vertical / horizontal           Pollution degree         3           Overvoltage category         IN           Ketchancel endurance (switching cycles)         IN00           Degree of protection         IP30           Category         IN00           Degree of protection         IP30      <	Rated operating voltage	690V
Conv. free air thermal current with fuse-links         250A           Conv. free air thermal current with solid links         400A           Rated inpulse voltage         12kV           Rated inpulse voltage         1000V           Rated inpulse voltage         000V           Rated inpulse voltage         000V           Rated inpulse voltage         000V           Contact system         0ELIA-contact system with low power loss           Contact system         22W           Utilisation category         AC-228 (250A/500V)           Rated conditional short-circuit current         120 (AC-500V)[kA)           Rated conditional short-circuit current         120 (AC-500V)[kA)           Max permissible power dissipation per fuse-link         32W           Ambient temperature         -25 up to +55 °C           'ype of Actuation         Dependent manual operation           Mounting position         vertical / horizontal           Pilution degree         3           Overvoltage category         N           Electrical endurance (switching cycles)         1400           Mounting position         Poso           Part of protection         IP30           Colle terminal ISA05305         Cable terminal IA02           Cable terminal ISA05305	Rated operating current	250A
Conv. free air thermal current with solid links         400A           Rated inpulse voltage         12kV           Rated solotion voltage         1000V           Rated fiquency         40 - 60Hz           Contact system         DELTA-contact system with low power loss           Total power loss at th (without fuse-link)         23W           Utilisation category         AC-228 (250A/500V)           AC-228 (250A/500V)         AC-228 (250A/500V)           Rated conditional short-circuit current         120 (AC 500V)(kA)           Max. permissible power dissipation per fuse-link         32W           Ambient temperature         -25 up to +55°C           Very of Actuation         Dependent manual operation           Mounting position         Vertained           Very oldgag category         IN           Electrical endurance (switching cycles)         200           Mechanical endurance (switching cycles)         1400           Degree of protection         IP30           Coale terminal ISA05305         IP30           Cable terminal ISA05305         IP30           Cable terminal ISA05305         V-box terminal           Clamping corse-section 25-240mm²         Compute 25-25-00mm²           Cable terminal ISA05305         Cable terminal M10	Current measurement	No
Rated impulse voltage         12k/           Rated isolation voltage         1000V           Rated frequency         40 - 60Hz           Contract system         DEITA-contract system with low power loss           Total power loss at lth (without fuse-link)         23W           Utilisation category         AC-22B (250A/500V)           AC-23B (250A/690V)         AC-23B (250A/400V)           Rated impulse power dissipation per fuse-link         32W           Ambient temperature         120 (AC 500V)[k])           Max. permissible power dissipation per fuse-link         32W           Ambient temperature         -25 up to +55°C           Vertical / horizontal         Dependent manual operation           Mounting position         vertical / horizontal           Pollution degree         3           Overvollage category         1400           Electrical endurance (switching cycles)         1400           Degree of protection         IP30           Cable terminal ISA05305         Tighterning lorque 325.1mg           Cable terminal ISA05305         Conduct cycle/ sime	Conv. free air thermal current with fuse-links	250A
Rated isolation voltage         1000V           Rated isolation voltage         40 - 60Hz           Contact system         DELTA-contact system with low power loss           Total power lass at th (without fuse-link)         23W           Utilisation category         AC-22B (250A/500V)           AC-22B (250A/400V)         AC-22B (250A/400V)           Rated conditional short-circuit current         120 (AC 500V)[(kA)           Max. permissible power dissipation per fuse-link         32W           Ambient temperature         -25 up to +55°C           Sector details         -25 up to +55°C           Overvoltage category         N           Upp of Actuation         Dependent manual operation           Mounting position         vertical / horizontal           Pollution degree         3           Overvoltage category         IN           Electrical endurance (switching cycles)         1000           Degree of protection         1P30           Cable terminal ISA05305         Cable lug (DIN 46 235) 1 x 25-150mm²           Cable terminal ISA05305         Cable terminal	Conv. free air thermal current with solid links	400A
Rated frequency         40 - 60Hz           Contoct system         DELTA-contact system with low power loss           Total power loss at Ith (without fuse-link)         23W           Utilisation category         AC:228 (250A/500V)           AC:228 (250A/690V)         AC:228 (250A/400V)           Rated conditional short-circuit current         120 (AC 500V)[kA]           Max. permissible power dissipation per fuse-link         32W           Ambient temperature         -25 up to +55°C           Type of Actuation         Dependent manual operation           Mounting position         vertical / horizontal           Pollution degree         3           Overvoltage category         IV           Electrical endurance (switching cycles)         1400           Degree of protection         IP30           Cable terminal ISA05305         Cable terminal           Cable terminal ISA05305         Cable terminal	Rated impulse voltage	12kV
Contact system         DELTA-contact system with low power loss           Total power loss at lth (without fuse-link)         23W           Utilisation category         AC-228 (250A/500V)           AC-228 (250A/690V)         AC-228 (250A/400V)           Rated conditional short-circuit current         120 (AC 500V)(IkA)           Max. permissible power dissipation per fuse-link         32W           Ambient temperature         -25 up to +55°C           Variation         Dependent manual operation           Moxing position         Vertical / horizontal           Pollution degree         3           Overvoltage category         IV           Electrical endurance (switching cycles)         1400           Degree of protection         1830           Cable terminal ISA05305         Flat terminal M10           Cable terminal ISA05305         V-box terminal	Rated isolation voltage	1000V
Total power loss at lth (without fuse-link)         23W           Utilisation category         AC-22B (250A/500V)           AC-22B (250A/690V)         AC-22B (250A/40V)           Rated conditional short-circuit current         120 (AC 500V)(kA)           Max. permissible power dissipation per fuse-link         32W           Ambient temperature         -25 up to +55°C           Variable         >35°C derating of rated current required           Type of Actuation         Dependent manual operation           Mounting position         vertical / horizontal           Pollution degree         3           Overvoltage category         IV           Electrical endurance (switching cycles)         1400           Degree of protection         1930           Cable terminal ISA05305         Flat terminal N10           Cable terminal ISA05305         V-box terminal           Clamping cross-section 25-240mm²         Conductor Cu/Al re/se, Cu am/rm	Rated frequency	40 - 60Hz
Utilisation category         AC-228 [250A/500V]           AC-228 [250A/690V]         AC-228 [250A/690V]           Ac-238 [250A/400V]         AC-238 [250A/400V]           Rated conditional short-circuit current         120 (AC 500V)[kA)           Max. permissible power dissipation per fuse-link         32W           Ambient temperature         -25 up to +55° C           Vervoltage category         S35° C derating of rated current required           Type of Actuation         Dependent manual operation           Mounting position         vertical / horizontal           Pollution degree         3           Overvoltage category         IV           Electrical endurance (switching cycles)         200           Mechanical endurance (switching cycles)         1400           Degree of protection         IP30           Cable terminal ISA05305         Flat terminal M10           Cable terminal ISA05305         V-box terminal           Cable terminal ISA05305         V-box terminal	Contact system	DELTA-contact system with low power loss
AC-22B (250A/690V)           AC-22B (250A/400V)           Rated conditional short-circuit current           Max. permissible power dissipation per fuse-link           Max. permissible power dissipation per fuse-link           Ambient temperature           -25 up to +55°C           Image: temperature required           -25 up to +55°C           S35°C derating of rated current required           Type of Actuation           Mounting position           Vervoltage category           Electrical endurance (switching cycles)           Mechanical endurance (switching cycles)           Degree of protection           Cable terminal ISA05305           Cable terminal ISA05305           Cable terminal ISA05305           Clamping cross-section 25-240mm²	Total power loss at Ith (without fuse-link)	23W
AC-23B (250A/400V)           Rated conditional short-circuit current         120 (AC 500V)(kA)           Max. permissible power dissipation per fuse-link         32W           Ambient temperature         -25 up to +55 °C           Vervoltage category         Dependent manual operation           Pollution degree         3           Overvoltage category         IV           Electrical endurance (switching cycles)         1400           Degree of protection         1400           Cable terminal ISA05305         Flatterminal M10           Cable terminal ISA05305         V-box terminal           Cable terminal ISA05305         Cable terminal	Utilisation category	AC-22B (250A/500V)
Rated conditional short-circuit current         120 (AC 500V)[kA)           Max. permissible power dissipation per fuse-link         32W           Ambient temperature         -25 up to +55 °C           Type of Actuation         >35°C derating of rated current required           Mounting position         Dependent manual operation           Mounting position         vertical / horizontal           Pollution degree         3           Overvoltage category         IV           Electrical endurance (switching cycles)         200           Mechanical endurance (switching cycles)         1400           Degree of protection         IP30           Cable terminal ISA05305         Cable terminal M10           Cable terminal ISA05305         V-box terminal           Clamping cross-section 25-240mm²         Clamping cross-section 25-240mm²		AC-22B (250A/690V)
Max. permissible power dissipation per fuse-link       32W         Ambient temperature       -25 up to +55°C         S35°C derating of rated current required         Type of Actuation       Dependent manual operation         Mounting position       vertical / horizontal         Pollution degree       3         Overvoltage category       N         Electrical endurance (switching cycles)       200         Mechanical endurance (switching cycles)       1400         Degree of protection       IP30         Cable terminal ISA05305       Flat terminal M10         Cable terminal ISA05305       V-box terminal         Cable terminal ISA05305       Clamping cross-section 25-240mm²		AC-23B (250A/400V)
Ambient temperature       -25 up to +55°C         Yape of Actuation       >35°C derating of rated current required         Mounting position       Dependent manual operation         Pollution degree       3         Overvoltage category       IV         Electrical endurance (switching cycles)       200         Mechanical endurance (switching cycles)       1400         Degree of protection       IP30         Cable terminal ISA05305       Flat terminal M10         Cable terminal ISA05305       V-box terminal         Cable terminal ISA05305       Clamping cross-section 25-240mm²	Rated conditional short-circuit current	120 (AC 500V)(kA)
>35°C derating of rated current required         Type of Actuation       Dependent manual operation         Mounting position       vertical / horizontal         Pollution degree       3         Overvoltage category       IV         Electrical endurance (switching cycles)       200         Mechanical endurance (switching cycles)       1400         Degree of protection       IP30         Cable terminal ISA05305       Flat terminal M10         Cable terminal ISA05305       V-box terminal         Cable terminal ISA05305       V-box terminal         Cable terminal ISA05305       Clamping cross-section 25-240mm <sup>2</sup> Conductor Cu/Al re/se, Cu am/rm       Conductor Cu/Al re/se, Cu am/rm	Max. permissible power dissipation per fuse-link	32W
Type of Actuation       Dependent manual operation         Mounting position       vertical / horizontal         Pollution degree       3         Overvoltage category       IV         Electrical endurance (switching cycles)       200         Mechanical endurance (switching cycles)       1400         Degree of protection       IP30         Cable terminal ISA05305       Flat terminal M10         Cable terminal ISA05305       V-box terminal         Cable terminal ISA05305       V-box terminal         Cable terminal ISA05305       Clamping cross-section 25-240mm <sup>2</sup> Conductor Cu/Al re/se, Cu am/rm       Conductor Cu/Al re/se, Cu am/rm	Ambient temperature	-25 up to +55 °C
Mounting position       vertical / horizontal         Pollution degree       3         Overvoltage category       IV         Electrical endurance (switching cycles)       200         Mechanical endurance (switching cycles)       1400         Degree of protection       IP30         Cable terminal ISA05305       Flat terminal M10         Cable terminal ISA05305       V-box terminal         Cable terminal ISA05305       V-box terminal         Cable terminal ISA05305       Clamping cross-section 25-240mm <sup>2</sup> Conductor Cu/Al re/se, Cu am/rm       Conductor Cu/Al re/se, Cu am/rm		>35°C derating of rated current required
Pollution degree       3         Overvoltage category       IV         Electrical endurance (switching cycles)       200         Mechanical endurance (switching cycles)       1400         Degree of protection       IP30         Cable terminal ISA05305       Flat terminal M10         Cable terminal ISA05305       V-box terminal         Cable terminal ISA05305       V-box terminal         Cable terminal ISA05305       Clamping cross-section 25-240mm²         Conductor Cu/Al re/se, Cu am/rm       Conductor Cu/Al re/se, Cu am/rm	Type of Actuation	Dependent manual operation
Overvoltage category       IV         Electrical endurance (switching cycles)       200         Mechanical endurance (switching cycles)       1400         Degree of protection       IP30         Cable terminal ISA05305       Flat terminal M10         Cable terminal ISA05305       Cable lug (DIN 46 235) 1 x 25-150mm²         Tightening torque 30-35Nm       Tightening torque 30-35Nm         Cable terminal ISA05305       V-box terminal         Cable terminal ISA05305       Clamping cross-section 25-240mm²	Mounting position	vertical / horizontal
Electrical endurance (switching cycles)       200         Mechanical endurance (switching cycles)       1400         Degree of protection       IP30         Cable terminal ISA05305       Flat terminal M10         Cable terminal ISA05305       Cable lug (DIN 46 235) 1 x 25-150mm²         Tightening torque 30-35Nm       Tightening torque 30-35Nm         Cable terminal ISA05305       V-box terminal         Cable terminal ISA05305       Clamping cross-section 25-240mm²	Pollution degree	3
Mechanical endurance (switching cycles)       1400         Degree of protection       IP30         Cable terminal ISA05305       Flat terminal M10         Cable terminal ISA05305       Cable lug (DIN 46 235) 1 x 25-150mm²         Tightening torque 30-35Nm       Tightening torque 30-35Nm         Cable terminal ISA05305       V-box terminal         Cable terminal ISA05305       Clamping cross-section 25-240mm²	Overvoltage category	IV
Degree of protection     IP30       Cable terminal ISA05305     Flat terminal M10       Cable lug (DIN 46 235) 1 x 25-150mm²       Tightening torque 30-35Nm       Cable terminal ISA05305       V-box terminal       Clamping cross-section 25-240mm²       Conductor Cu/Al re/se, Cu am/rm	Electrical endurance (switching cycles)	200
Cable terminal ISA05305       Flat terminal M10         Cable terminal ISA05305       Cable lug (DIN 46 235) 1 x 25-150mm²         Tightening torque 30-35Nm         Cable terminal ISA05305         V-box terminal         Clamping cross-section 25-240mm²         Conductor Cu/Al re/se, Cu am/rm	Mechanical endurance (switching cycles)	1400
Cable lug (DIN 46 235) 1 x 25-150mm²         Tightening torque 30-35Nm         Cable terminal ISA05305         V-box terminal         Clamping cross-section 25-240mm²         Conductor Cu/Al re/se, Cu am/rm	Degree of protection	IP30
Tightening torque 30-35Nm       Cable terminal ISA05305     V-box terminal       Clamping cross-section 25-240mm <sup>2</sup> Conductor Cu/Al re/se, Cu am/rm	Cable terminal ISA05305	Flat terminal M10
Cable terminal ISA05305 V-box terminal Clamping cross-section 25-240mm <sup>2</sup> Conductor Cu/Al re/se, Cu am/rm		Cable lug (DIN 46 235) 1 x 25-150mm <sup>2</sup>
Clamping cross-section 25-240mm <sup>2</sup> Conductor Cu/Al re/se, Cu am/rm		Tightening torque 30-35Nm
Conductor Cu/Al re/se, Cu am/rm	Cable terminal ISA05305	V-box terminal
		Clamping cross-section 25-240mm <sup>2</sup>
Tightening torque 32Nm		Conductor Cu/Al re/se, Cu am/rm
		Tightening torque 32Nm



Fuse loadbreak-disconnectors size 1 (250A), for 185mm busbar-system, series ARROW II

# 202 153.5 99 ω L1 285 185 Ø 14 F L2 ф 662 650 185 341 đ L3 Ê ₿ þ ISA05305 / ISA05306 Wiring diagram

ISA05305 Dimensions





Fuse loadbreak-disconnectors size 2 (400A), for 185mm busbar-system, series ARROW II



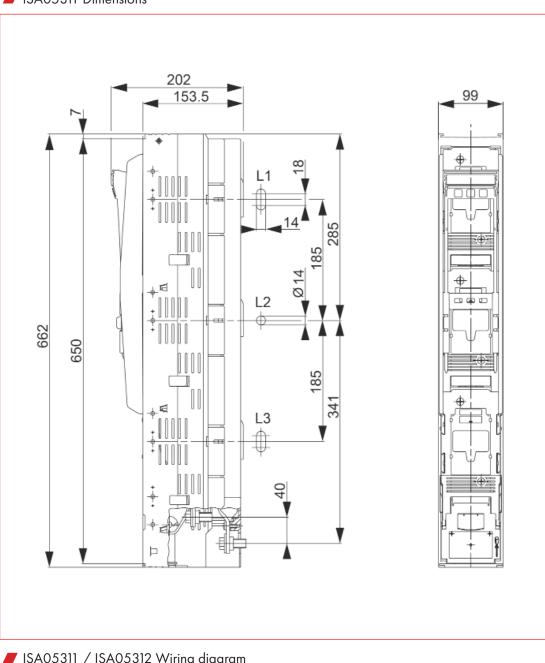
ISA05311

- Schrack-Info
  - NH-strip-type fuse-switch-disconnector for 185mm busbar-system
  - With cable connection at bottom side, optional at top side
  - Width 50mm
  - All parts of LSL made from halogenfree, self-extinguishing material
  - Base part as carrier of current carrying components made from glassfibre reinforced polyester
  - Fuse holding contacts with sacrificial electrode and short-circuit interlock
  - With access points for safety voltage measurement on the fuse-holding contact
  - Protection degree IP30, from front side, device closed, with clamp- and side cover
  - Type label visible in built-in condition
  - Lockable in closed position and in stand-by position with up to 3 padlocks

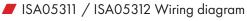
Size	NH2
Standard	IEC/EN 60947-3
Busbar distance	185mm
Poles	3
Switching mode	3pole switchable
Applicable for fuse-links	NH1 and NH2
Rated operating voltage	690V
Rated operating current	400A
Current measurement	No
Conv. free air thermal current with fuse-links	400A
Conv. free air thermal current with solid links	630A
Rated impulse voltage	12kV
Rated isolation voltage	1000V
Rated frequency	40 - 60Hz
Contact system	DELTA-contact system with low power loss
Total power loss at Ith (without fuse-link)	54W
Utilisation category	AC-21B (400A/690V)
	AC-22B (400A/500V)
	AC-23B (400A/400V)
Rated conditional short-circuit current	120kA (AC 500V)
Max. permissible power dissipation per fuse-link	45W
Ambient temperature	-25 up to +55°C
Ambient temperature	>35°C derating of rated current required
Mounting position	vertical / horizontal
Altitude	2000m
Pollution degree	3
Overvoltage category	IV
Electrical endurance (switching cycles)	200
Mechanical endurance (switching cycles)	800
Degree of protection	IP30
Cable terminal ISA05311	Flat terminal M 12
	Cable lug (DIN 46 235) 1 x 25-240mm <sup>2</sup>
	Tightening torque 30-35Nm
Cable terminal ISA05312	V-box terminal
	Clamping cross-section 25-240mm <sup>2</sup>
	Conductor Cu/Al re/se, Cu am/rm
	Tightening torque 32Nm

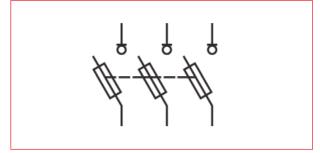


Fuse loadbreak-disconnectors size 2 (400A), for 185mm busbar-system, series ARROW II



ISA05311 Dimensions

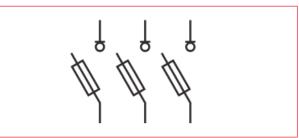






# NH-fuse-material series ARROW

- Fuse loadbreak-disconnectors size 2 (400A), for 185mm busbar-system, series ARROW II
- ISA05352 Wiring diagram



DESCRIPTION	AVAILABLE	ORDER NO.
Size 2, 3-pole, 400A, M12	888 0-0	ISA05311
Size 2, 3-pole, 400A, with V-terminal		ISA05312
ARROW LINE size 2, 3pole, 1pol switchable, 185mm w. V-term.		ISA05352
HRC-in-line-fuse ARROW LINE size 2, 3pole, 185mm, M12		ISA05342
Size 2, 3-pole, 400A, M12, with window-bloc	888	ISA05311F





## Fuse loadbreak-disconnectors size 3 (630A), for 185mm busbar-system, series ARROW II



ISA05320

#### Schrack-Info

- NH-strip-type fuse-switch-disconnector for 185mm busbar-system
- With cable connection at bottom side, optional at top side
- Width 50mm
- All parts of LSL made from halogenfree, self-extinguishing material
- Base part as carrier of current carrying components made from glassfibre reinforced polyester
- Fuse holding contacts with sacrificial electrode and short-circuit interlock
- With access points for safety voltage measurement on the fuse-holding contact
- Protection degree IP30, from front side, device closed, with clamp- and side cover
- Type label visible in built-in condition
- Lockable in closed position and in stand-by position with up to 3 padlocks

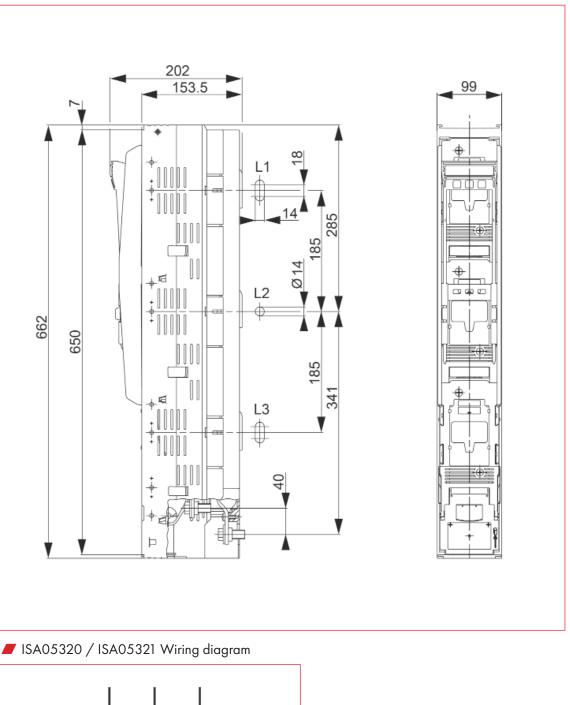
Size	NH3
Standard	IEC/EN 60947-3
Busbar distance	185mm
Poles	3
Switching mode	3pole switchable
Applicable for fuse-links	NH1, NH2 and NH3
Rated operating voltage	690V
Rated operating current	630A
Current measurement	No
Conv. free air thermal current with fuse-links	630A
Conv. free air thermal current with solid links	800A
Rated impulse voltage	12kV
Rated isolation voltage	1000V
Rated frequency	40 - 60Hz
Contact system	DELTA-contact system with low power loss
Total power loss at Ith (without fuse-link)	115W
Utilisation category	AC-21 B (630A/690V)
	AC-22B (630A/500V)
	AC-23B (630A/400V)
Rated conditional short-circuit current	120kA (AC 500V)
Rated short-time withstand current	10kA
Max. permissible power dissipation per fuse-link	48W
Ambient temperature	-25 up to +55°C
Ambient temperature	>35°C derating of rated current required
Type of Actuation	Dependent manual operation
Mounting position	vertical / horizontal
Pollution degree	3
Overvoltage category	IV
Electrical endurance (switching cycles)	200
Mechanical endurance (switching cycles)	800
Degree of protection	IP30
Cable terminal ISA05320	Flat terminal M 12
	Cable lug (DIN 46 235) 1 x 25-300mm <sup>2</sup> (max. 43mm width)
	Tightening torque 35-40Nm
Cable terminal ISA05321	V box terminal
	Clamping cross-section 25-240mm <sup>2</sup>
	Conductor Cu/Al re/se, Cu am/rm
	Tightening torque 32Nm





Fuse loadbreak-disconnectors size 3 (630A), for 185mm busbar-system, series ARROW II

ISA05320 Dimensions



DESCRIPTION	AVAILABLE	ORDER NO.
Size3, 3-pole, 630A, M12	869	ISA05320
Size3, 3-pole, 630A, with V-terminal		ISA05321
HRC-in-line-fuse ARROW LINE size 3, 3pole, 185mm, M12		ISA05343

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## NH-Line (HRC) fuse load-breaker size 3 (630A), for 185mm busbar-system, series ARROW II



## Schrack-Info

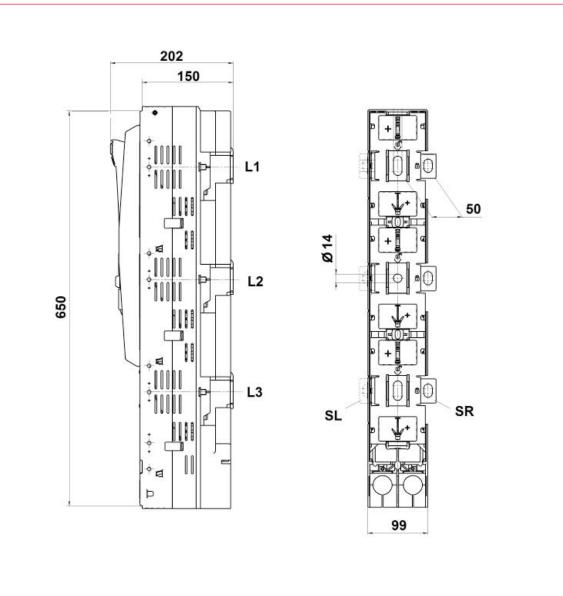
- Busbar coupler, Terminal at right or left side with screw M12
- With cable connection at bottom side, optional at top side
- Width 100mm, for permanent mounting technology
- All parts of LSL made from halogenfree, self-extinguishing material
- Base part as carrier of current carrying components made from glassfibre reinforced polyester
- Fuse holding contacts with sacrificial electrode and short-circuit interlock
- With access points for safety voltage measurement on the fuse-holding contact

#### ISA05331

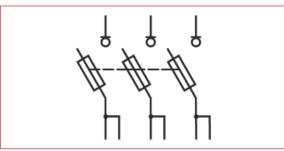
Size	NH3	
Product Lifecycle	Active product	
Standard	IEC/EN60947-3	
Special features	Busbar coupler	
	ISA05330: Terminal at left side with screw M12	
	ISA05331: Terminal at right side with screw M12	
Rated operating current	630A	
Size	NH3	
Busbar distance	185mm	
Rated operating voltage	690V	
Conv. free air thermal current with fuse-links	630A	
Rated conditional short-circuit current	120 (AC 500V)kA	
Conv. free air thermal current with solid links	120 (AC 500V)kA 800A	
Rated impulse voltage	800A 12kV	
Rated isolation voltage	1000V	
Rated frequency	40 - 60Hz	
Contact system	DELTA-contact system with low power loss	
Utilisation category	AC-21B (630A/690V)	
	AC-22B (630A/500V)	
	AC-23B (630A/400V)	
Max. permissible power dissipation per fuse-link	48W	
Ambient temperature	-25 up to +55 (>35 derating of rated current required)°C	
Type of Actuation	Dependent manual operation	
Mounting position	vertical / horizontal	
Pollution degree	3	
Overvoltage category	IV	
Electrical endurance (switching cycles)	200	
Mechanical endurance (switching cycles)	800	
Rated short-time withstand current	15kA	
Applicable for fuse-links		
Cable terminal	busbar terminal M 12 - busbar coupler	
Degree of protection	IP30	



NH-Line (HRC) fuse load-breaker size 3 (630A), for 185mm busbar-system, series ARROW II
 ISA05330 / ISA05331 Dimensions



## ISA05330 / ISA05331



DESCRIPTION	AVAILABLE	ORDER NO.
Input-HRC-in-line-fuse ARROW LINE size3, 3pole, 185mm, left		ISA05330
Input-HRC-in-line-fuse ARROW LINE size3, 3pole, 185mm, right		ISA05331



## Fuse bases, for 60 mm busbar-system







ISA05334

ISA05730

ISA05329

Schrack-Info

- Accessories for NH (HRC)-strip-type fuse-switch-disconnector, series ARROW II
- Fuse links and knife links are in the chapter accessories for NH (HRC) material

DESCRIPTION	AVAILABLE	ORDER NO.
Terminals for drillingfree mounting Set with 3pcs.	388	ISA05333
Current transformer 150A for ARROW LINE with CT-mounting		ISA05345
Current transformer 400A for ARROW LINE with CT-mounting		ISA05347
Current transformer 600A for ARROW LINE with CT-mounting		ISA05348
V-double-clamp retrofit kit, size 1-3, 2 x 185 - 240mm²	385	ISA05730
Adapterplate for L1 on ARROW LINE		ISA05729
Adjusting cover for ARROW II size 00 (1 pck = 2 pcs)	388	ISA05329
Cover one way		ISA05731
Cover cap for top or bottom terminal ARROW II 1-3	333 0- 0-	ISA05334

