



ARS pro

vertical fuse switch disconnectors

- fibre glass extra strenghtened, self extinguishing
- thermoplastics of VO flammability class
- double clearance between open contacts
- arc chambers with deionization plates over every contact
- reversibility - top/bottom cable terminal connection
- wide range of accesories

GENERAL INFORMATION

ARS pro vertical fuse switch disconnectors are designed for distribution of electricity and protection against short circuits and overloads in three phase alternative current circuits. They are intended for direct installation on horizontal or vertical busbar systems.

ARS pro fuse switch disconnectors meet technical requirements of electricity boards and are conforming to EN 60947-1, EN 60947-3, IEC 60947-1, IEC 60947-3 standards. **ARS pro** fuse switch disconnectors are dedicated for applications which require reliability and safety like low voltage distribution boards installed in transformer substations, industrial low voltage distribution boards and cable cabinets.

Removal of the fuse links provides clearly noticeable, large isolating distances in the circuit.

ARS pro fuse switch disconnectors are designed to perform the following functions:

- protection,
- energy distribution,
- earthing,
- switching,
- touch protection.

CONSTRUCTION

ARS pro fuse switch disconnectors are manufactured in two versions:

- one pole switching (separately each pole),
- three pole switching (three poles at the same time).

ARS pro fuse switch disconnectors have manually operated handle therefore making and breaking operations should be done with determined movement.

ARS pro fuse switch disconnectors are available in following sizes (according to rated current): 00 (160 A) also available are versions 910 A and 1250 A.

ARS pro fuse switch disconnectors (size 2-400 A; 910 A; 1250 A) are designed for installation on 185 mm busbar system. ARS 00/100 mm pro fuse switch disconnector (size 00) is designed for installation on 100 mm busbar system.

By using the adapter, it is possible to mount the ARS 00 / 100 mm pro switch disconnector on busbar system with a spacing of 185 mm.

All plastic parts of fuse switch disconnector **ARS pro** are made of halogen free, fibre glass strengthened, self extinguishing materials. Thanks to the application of flame retardants the highest flammability class – V0 was achieved. Fuse switch disconnectors made from such thermoplastics self-extinguish in specified time after ignition source is removed. Also dripping of flaming parts of plastic does not occur.

Silver plated contacts provide low power loss. Depending on clamp type, **ARS pro** fuse switch disconnectors enable user to connect circular or sector-shaped conductors with bare ends or conductors with lug terminals. Arc chambers equipped with steel deionization plates are installed over each contact. **ARS pro** fuse switch disconnectors are designed for using current transformers and ammeters. Protection degree of IP30 from the front is provided. In opened position **ARS pro** provide protection degree IP20. Additionally offered accessories enable to install **ARS pro** fuse switch disconnectors of different sizes on common busbar systems and facilitate operation. All sizes of **ARS pro** fuse switch disconnectors are provided complete with clamps (i. e. screws, V-terminals, 2V-terminals) and shrouds for cable terminals.

Table 27. Technical data ARS pro

Parameter		ARS 00/60 mm pro	ARS 00/100 mm pro	ARS 630 kVApro	ARS 1250 pro	
Rated thermal current $I_{th}=I_n$ with fuse links	A	160	160	910	1250	
Rated thermal current I_{th} with solid links	A	-	-	-	-	
Rated voltage U_n	V	690	690	400	400	
Utilization category	690 V	AC-22B	AC-22B	-	-	
	500 V			-	-	
	400 V	AC-23B	AC-23B	AC-22B	AC-21B	
Rated switching current I_e	A	160	160	910	1250	
Rated short-circuit making current	690 V	kA	25	-	-	
	500 V			120	-	-
	400 V			-	50	100
Rated short-circuit withstand current	690 V	kA	100	-	-	
	500 V			120	-	-
	400 V			-	50	100
Rated insulation voltage U_i	V	1000	1000	1000	1000	
Rated impulse withstand voltage $U_{imp.}$	kV	8	8	12	12	
Rated short time withstand current I_{cw}	kA	-	-	-	-	
Rated frequency	Hz	50-60	50-60	50-60	50-60	
Mechanical durability	Number of cycles	1600	1600	600	600	
Electrical durability		200	200	100	100	
IP degree of protection	IP	30	30	30	30	
Fuse links size	-	00	00	gTr 630 kVA ¹⁾	3	

¹⁾ fuse link gTr 630 kVA, DIN 43620, VDE 0636/2011, size NH3

²⁾ with mechanical lock

³⁾ use of mechanical lock recommended

OPERATING CONDITIONS

- to be installed in the room free of any dust, aggressive or explosive gases,
- altitude up to 2000 meters above sea level,
- outdoor – in cabinets with protection degree > IP 34,
- ambient temperature from -25 °C to +55 °C,
- relative humidity of the air should not be higher than 50% at temperature of +40°.

FUNCTIONALITY

- making and breaking operations should be done with determined movement,
- parallelly moving, double contact system,
- designed for installation on to 60 mm, 100 mm or 185 mm busbar system,
- two versions: single pole switching (separately each pole) or triple pole switching (three poles at the same time),
- width 50 mm (ARS 00/60 mm pro, ARS 00/100 mm pro); width 100 mm (RWS 600 pro, RWS 750 pro, RWS 1250 pro) or 200 mm (ARS 1250 pro),
- suitable for top cable terminal connection,
- possible connection of conductors with lug terminals (screw terminals) or circular/sector-shaped conductors with bare ends (V-terminals, 2V-terminals) using V-clamps,
- voltage test is performed through test holes leading to blade contacts,
- possible installation of various types of earthing devices.

FUSE SWITCH DISCONNECTOR ARS 00/60 mm pro (160 A, 690 V)

Table 28. Technical data

Parameter	ARS 00/60 mm pro		
Rated thermal current $I_{th}=I_n$	A	160	
Rated voltage U_n	V	690	
Utilization category	-	AC-22B	AC-23B
Rated switching voltage U_e	V	690	400
Rated switching current I_e	A	160	
Rated short circuit making current	690 V	kA	80
	500 V		120
Rated short circuit withstand current	690 V	kA	80
	500 V		120
Rated insulation voltage U_i	V	1000	
Rated impulse withstand voltage U_{imp}	kV	8	
Rated frequency	Hz	50-60	
Mechanical durability	Number of cycles	1600	
Electrical durability		200	
IP degree of protection	IP	30	
Fuse links size	-	00	



ARS 00/60 mm pro

ARS 00/60 mm pro

Table 29. Versions

APASYS 60	Version of ARS 00/60 mm pro		Article No.
	three pole switching - all phases simultaneously (for installation on to 60 mm busbar system)		
	ARS 00/60 mm pro	cable terminals: bridge terminals with bridge clamps (S) 4-70 mm ² screw terminals with M8 screws	63-002354-001
	ARS 00/60 mm-T pro	cable terminals: frame clamps 2,5-70 mm ²	63-002354-002

Table 30. ARS 00/60 mm pro terminal clamps

Description	ARS 00/60 mm pro		
Clamp	S-bridge clamp 2 x M5 x 20	screw M8*	double frame clamp
Picture of clamp			
Drawing of clamp			
Cross-section of conductors	4 - 70 mm ²	Conductor with lug terminal max 95 mm ²	4 ÷ 95 mm ²
Tightening torque	3 Nm**	10 Nm**	5 Nm**

For stranded conductors using cable ferrules is recommended

*) bars of maximum width of 20 mm and maximum thickness of 5 mm can be fixed to M type screw terminals

**) using tension wrench is recommended

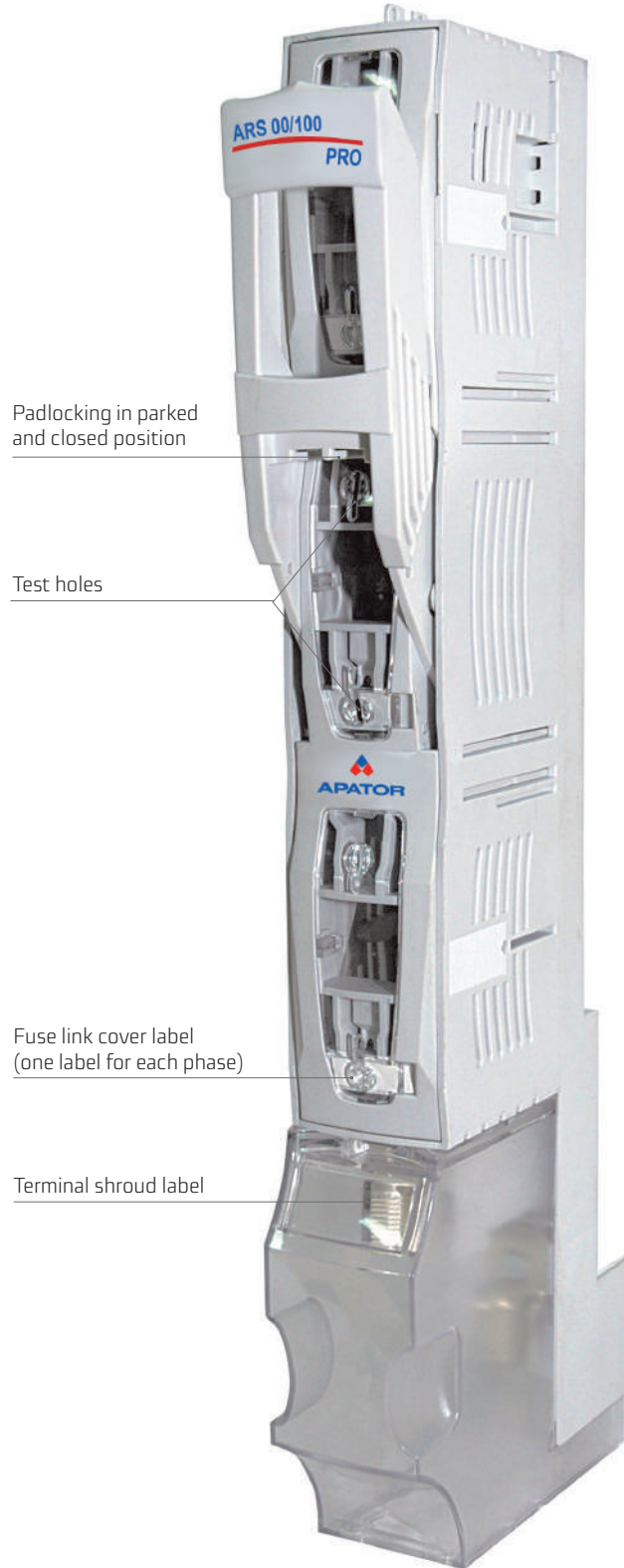
FUSE SWITCH DISCONNECTOR ARS 00/100 mm pro (160 A, 690 V)

For installation on to 100 mm busbar system

Fuse switch disconnector's width 50 mm

Three pole switching - all phases simultaneously

ARS 00/100 mm pro



ARS 00/100 mm pro (160 A, 690 V)

Table 31. Technical data

Parameter	ARS 00/100 mm pro	
Rated thermal current $I_{th}=I_n$	A	160
Rated voltage U_n	V	690
Utilization category	-	AC-22B AC-23B
Rated switching voltage U_e	V	690 400
Rated switching current I_e	A	160
Rated short circuit making current	kA	25
Rated short circuit withstand current	kA	100
Rated insulation voltage U_i	V	1000
Rated impulse withstand voltage U_{imp}	kV	8
Rated frequency	Hz	50-60
Mechanical durability	Number of cycles	1600
Electrical durability	Number of cycles	200
IP degree of protection	-	30
Fuse links size	-	00

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ARS 00/100 mm pro

ARS 00/100 mm pro

Table 32. Versions

Version		Weight	Article No.
three pole switching - all phases simultaneously (for installation on to 100 mm busbar system)			
ARS 00/100 mm pro	cable terminals: bridge terminals with bridge clamps (S) 4-70 mm ² , screw terminals with M8 screws	1,3 kg	63-811628-041
ARS 00/100 mm-V pro	cable terminals: V-terminals with V-clamps 25-150 SW	1,5 kg	63-811628-061

Table 33. ARS 00/100 mm pro terminal clamps

Description	ARS 00/100 mm pro			
	S-bridge clamp 2 x M5 x 20	screw M8*	V-clamp 25-150 SW	HM 10-120
Picture of clamp				
Drawing of clamp				
Cross-section of conductors	4-70 mm ²	Conductor with lug terminal max 185 mm ²	re ● 16 mm ² - 95 mm ² se ◆ 25 mm ² - 150 mm ²	re ● 10 mm ² - 70 mm ² se ◆ 20 mm ² - 120 mm ²
			rm ⊗ 16 mm ² - 95 mm ² sm ⊗ 25 mm ² - 150 mm ²	rm ⊗ 10 mm ² - 70 mm ² sm ⊗ 25 mm ² - 95 mm ²
Tightening torque	3 Nm**	12 Nm**	20 Nm**	15 Nm**

For stranded conductors using cable ferrules is recommended

*) bars of maximum width of 20 mm and maximum thickness of 5 mm can be fixed to M type screw terminals

***) using tension wrench is recommended

***) fuse switch disconnectors with V-terminals are equipped with steel V-clamp HM 10-120 on request

Apator takes responsibility for technical quality of V-terminals manufactured only by the company. Minimum tightening torque (M8 screw) for screws fixing fuse switch disconnector to busbar system – 12 Nm, recommended tightening torque for screws and nuts with property class 8.8 – 21 Nm.

FUSE SWITCH DISCONNECTOR ARS 630 kVA pro

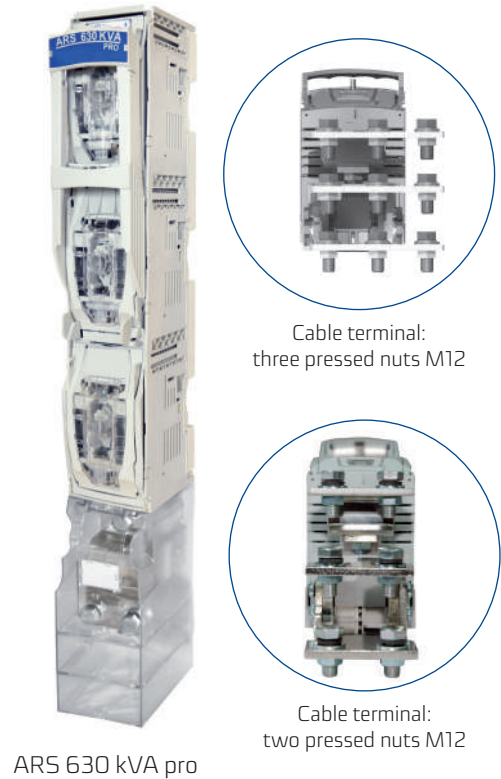
Fuse switch disconnecter ARS 630 kVA pro is dedicated for protection of transformers up to 630 kVA
 Fuse switch disconnecter is designed for operation with NH fuse links of size 3, with gTr characteristic

Table 34. Technical data

Parameter	ARS 630 kVA pro	
Rated thermal current $I_{th}=I_n$	A	910
Rated voltage U_n	V	400
Utilization category	-	AC-22B
Rated switching voltage U_e	V	400
Rated switching current I_e	A	910
Rated short circuit making current	kA	50
Rated short circuit withstand current	kA	50
Rated insulation voltage U_i	V	1000
Rated impulse withstand voltage $U_{imp.}$	kV	12
Rated frequency	Hz	50-60
Mechanical durability	Number of cycles	600
Electrical durability		100
IP degree of protection	-	30
Weight	kg	8,7
Fuse links size	-	gTr 630 kVA ¹⁾

Accessories on page 56, 57

¹⁾ Fuse link gTr 630 kVA, DIN 43620, VDE 0636/2011, size NH3




ARS 630 kVA pro

Table 35. Versions

Versions	Article No.
for installation on 185 mm busbar system	
one pole switching - each phase independently	
ARS 630 kVA-1-2M pro cable terminals: screw terminals with two pressed nuts M12/pole, width 100 mm	63-811860-001
ARS 630 kVA-1-3M pro cable terminals: screw terminals with three pressed nuts M12/pole, width 200 mm	63-811860-002
three pole switching - all phases simultaneously	
ARS 630 kVA-6-2M pro cable terminals: screw terminals with two pressed nuts M12/pole, width 100 mm	63-811722-011
ARS 630 kVA-6-3M pro cable terminals: screw terminals with three pressed nuts M12/pole, width 200 mm	63-811722-021

Recommended tightening torque (M12 screw) for screws fixing fuse switch disconnecter to busbar system – 56Nm, screws and nuts property class 8.8.

Table 36. ARS 630 kVA pro terminal clamps

Description	ARS 630 kVA pro
Clamp	pressed nuts M12
Drawing of clamp	
Cross – section of conductors	Cable lugs, max 300 mm ²
Tightening torque	56 Nm

SWITCH DISCONNECTOR ARS 1250 pro

Fuse switch disconnectors width 200 mm

Table 37. Technical data

Parameter		ARS 1250 pro
Rated thermal current $I_{th}=I_n$	A	1250
Rated voltage U_n	V	400
Utilization category	-	AC-21B
Rated switching voltage U_e	V	400
Rated switching current I_e	A	1250
Rated short circuit making current	kA	100
Rated short circuit withstand current	kA	100
Rated insulation voltage U_i	V	1000
Rated impulse withstand voltage U_{imp}	kV	12
Rated frequency	Hz	50-60
Mechanical durability	Number of cycles	600
Electrical durability		100
IP degree of protection	-	30
Fuse links size	-	3

Accessories on page 56, 57



ARS 1250-1-3M pro

ARS 1250-6-3M pro

ARS 1250 pro

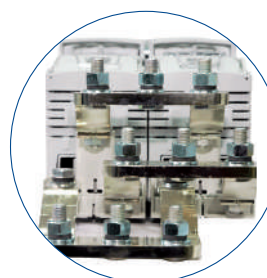
Table 38. Versions

Version		Weight	Article No.
for installation on to 185 mm busbar system, fuse disconnectors width – 200 mm			
one pole switching - each phase independently			
ARS 1250-1-3M pro	mechanically and electrically coupled two ARS 3 pro fuse switch disconnectors, cable terminals: screw terminals with three pressed screw M12/pole	16,3 kg	63-811757-011
ARS 1250-1-4M pro	mechanically and electrically coupled two ARS 3 pro fuse switch disconnectors, cable terminals: screw terminals with four pressed screw M12/pole	17 kg	63-811757-021
three pole switching - all phases simultaneously			
ARS 1250-6-3M pro	mechanically and electrically coupled two ARS 3 pro fuse switch disconnectors, cable terminals: screw terminals with three pressed screw M12/pole	16,3 kg	63-811756-011
ARS 1250-6-4M pro	mechanically and electrically coupled two ARS 3 pro fuse switch disconnectors, cable terminals: screw terminals with four pressed screw M12/pole	17 kg	63-811756-021

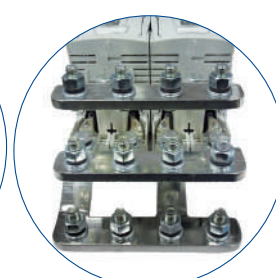
Recommended tightening torque (M12 screw) for screws fixing fuse switch disconnectors to busbar system – 56Nm, screws and nuts property class 8.8

Table 39. ARS 1250-x-M pro terminal clamps

Description	ARS 1250-x-3M pro	ARS 1250-x-4M pro
Clamp	three pressed nuts M12	four pressed nuts M12
Drawing of clamp		
Cross-section of conductors	Cable lugs, max 300 mm ²	Cable lugs, max 300 mm ²
Tightening torque	56 Nm	56 Nm



M3 type cable terminals: screw terminals with three pressed screw M12/pole



M3 type cable terminals: screw terminals with four pressed screw M12/pole

FUSE SWITCH DISCONNECTOR ARS 400 pro, ARS 600 pro with lateral busbar terminal

(separation, coupling of busbar systems)



ARS 400-6-NR pro

Table 40. Technical data


Parameter		ARS 400 pro	ARS 630 pro
Rated thermal current $I_{th}=I_n$	A	400	630
Rated voltage U_n	V	690	690
Utilization category	-	AC-22B	AC-22B
Rated switching voltage U_e	V	690	690
Rated switching current I_e	A	400	630
Rated short circuit making current	690 V	100	100
	500 V	120	120
Rated short circuit withstand current	690 V	100	100
	500 V	120	120
Rated insulation voltage U_i	V	1000	1000
Rated impulse withstand voltage U_{imp}	kV	12	12
Rated frequency	Hz	50-60	50-60
Mechanical durability	Number of cycles	1000	1000
Electrical durability		200	200
IP degree of protection	-	30	30
Fuse links size	-	1,2	3

[Accessories on page 74,75](#)

Table 41. Versions with lateral busbar terminal

Version		Weight	NrArticle No
for installation on 185 mm busbar system, ONE POLE SWITCHING - each phase independently			
ARS 400-1-NL pro	cable terminals: screw terminals : pressed nuts M12; lateral busbar terminals - left side	5,1 kg	63-811837-011
ARS 630-1-NL pro	cable terminals: screw terminals : pressed nuts M12; lateral busbar terminals - left side	5,1 kg	63-811837-021
ARS 400-1-NR pro	cable terminals: screw terminals : pressed nuts M12; lateral busbar terminals - right side	5,1 kg	63-811837-031
ARS 630-1-NR pro	cable terminals: screw terminals : pressed nuts M12; lateral busbar terminals - right side	5,1 kg	63-811837-041
for installation on 185 mm busbar system, THREE POLE SWITCHING - all phases simultaneously			
ARS 400-6-NL pro	cable terminals: screw terminals : pressed nuts M12; lateral busbar terminals - left side	5,1 kg	63-811838-011
ARS 630-6-NL pro	cable terminals: screw terminals : pressed nuts M12; lateral busbar terminals - left side	5,1 kg	63-811838-021
ARS 400-6-NR pro	cable terminals: screw terminals : pressed nuts M12; lateral busbar terminals - right side	5,1 kg	63-811838-031
ARS 630-6-NR pro	cable terminals: screw terminals : pressed nuts M12; lateral busbar terminals - right side	5,1 kg	63-811838-041

Table 42. ARS 400 pro, ARS 630 pro with lateral busbar terminals terminal clamps

Description	ARS 400-x-NL pro ARS 630-x-NL pro	ARS 400-x-NR pro ARS 630-x-NR pro
Clamp	M12 screw	M12 screw
Drawing of clamp		
Lateral busbar terminal	Left side	Right side
Tightening torque	56 Nm	56 Nm

SWITCH DISCONNECTOR RWS 600 pro (600 A, 690 V)

Switch disconnecter designed for operation with solid links of size 2



RWS 600-6-V pro

Table 43. Technical data

Parameter	RWS 600 pro	
Rated thermal current $I_{th}=I_n$	A	600
Rated voltage U_n	V	690
Utilization category	-	AC-22B
Rated switching voltage U_e	V	690
Rated switching current I_e	A	600
Rated insulation voltage U_i	V	1000
Rated impulse withstand voltage $U_{imp.}$	kV	12
Rated short time withstand current I_{cw}	kA	15 ¹⁾
Rated frequency	Hz	50-60
Mechanical durability	Number of cycles	1000
Electrical durability		200
IP degree of protection	-	30
Solid links size	-	2

[Accessories on page 56, 57](#)

¹⁾ use of mechanical lock recommended

Table 44. Versions

Version		Weight	Article No
for installation on 185 mm busbar system, THREE POLE SWITCHING - all phases simultaneously			
RWS 600-6-V pro	cable terminals: V-terminals: V-clamps 240 mm ²	5,8 kg	63-002228-001
RWS 600-6-M pro	cable terminals: screw terminals: pressed nuts M12	5,7 kg	63-002228-002
RWS 600-6-2V pro	cable terminals: 2V-terminals: double V-clamps 240 mm ²	6,4 kg	63-002228-003

Table 45. RWS 600 pro terminal clamps

Description	RWS 600-6-V pro	RWS 600-6-2V pro	RWS 600-6-2V pro	RWS 600-6-M pro
Clamp	V-clamp 35-300SW-B	V-clamp 2/50-300SW-B	V-clamp HS 2/50-240-C*	M-screw M12**
Drawing of clamp				
Cross – section of conductors	V-clamp for direct fixing of conductor with bare end with cross-section of:			
	35 - 185 mm ²	50 - 185 mm ²	50 - 185 mm ²	Lug terminal
	35 - 240 mm ²	50 - 240 mm ²	50 - 240 mm ²	
Tightening torque	30 Nm	30 Nm	40 Nm	56 Nm

For stranded conductors using cable ferrules is recommended

*) if the fuse switch disconnecter with a 2V-type clamp is to be equipped with a steel V-clamp HS 2/50-240-C, it should be included in the order

**) bars of maximum width of 40 mm and maximum thickness of 8 mm can be fixed to M type screw terminals when protective barrier between phases is installed Apator takes responsibility for technical quality of V-terminals manufactured only by the company. Minimum tightening torque (M12 screw) for screws fixing fuse switch disconnecter to busbar system – 32 Nm, recommended tightening torque for screws and nuts with property class 8.8 – 56 Nm.

SWITCH DISCONNECTOR RWS 750 pro (750 A, 500 V)

Switch disconnecter designed for operation with solid links of size 3

Table 46. Technical data

Parameter	RWS 750 pro	
Rated thermal current $I_{th}=I_n$	A	750
Rated voltage U_n	V	500
Utilization category	-	AC-22B
Rated switching voltage U_e	V	500
Rated switching current I_e	A	750
Rated insulation voltage U_i	V	1000
Rated impulse withstand voltage U_{imp}	kV	12
Rated short time withstand current I_{cw}	kA	15 ¹⁾
Rated frequency	Hz	50-60
Mechanical durability	Number of cycles	1000
Electrical durability		200
IP degree of protection	-	30
Solid links size	-	3

Accessories on page. 56, 57

¹⁾ use of mechanical lock recommended



RWS 750-6-V pro

Table 47. Versions

Version	Weight	Article No
for installation on 185 mm busbar system, THREE POLE SWITCHING - all phases simultaneously		
RWS 750-6-V pro cable terminals: V-terminals: V-clamps 240 mm ²	6,6 kg	63-002229-001
RWS 750-6-M pro cable terminals: screw terminals: pressed nuts M12	6,5 kg	63-002229-002
RWS 750-6-2V pro cable terminals: 2V-terminals: double V-clamps 240 mm ²	7,2 kg	63-002229-003

Table 48. RWS 750 pro terminal clamps

Description	RWS 750-6-V pro		RWS 750-6-2V pro		RWS 750-6-2V pro		RWS 750-6-M pro
Clamp	V-clamp 35-300SW-B		V-clamp 2/50-300SW-B		V-clamp HS 2/50-240-C*		M-screw M12**
Drawing of clamp							
Cross – section of conductors	V-clamp for direct fixing of conductor with bare end with cross-section of:						Lug terminal
	35 - 185 mm ²	35 - 240 mm ²	50 - 185 mm ²	50 - 240 mm ²	50 - 185 mm ²	50 - 240 mm ²	
	35 - 240 mm ²	35 - 300 mm ²	50 - 240 mm ²	50 - 300 mm ²	50 - 240 mm ²	50 - 300 mm ²	
Tightening torque	30 Nm		30 Nm		40 Nm		56 Nm

For stranded conductors using cable ferrules is recommended

^{*)} if the fuse switch disconnecter with a 2V-type clamp is to be equipped with a steel V-clamp HS 2/50-240-C, it should be included in the order

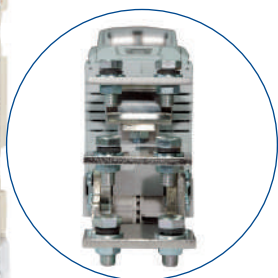
^{**)} bars of maximum width of 40 mm and maximum thickness of 8 mm can be fixed to M type screw terminals when protective barrier between phases is installed
Apator takes responsibility for technical quality of V-terminals manufactured only by the company. Minimum tightening torque (M12 screw) for screws fixing fuse switch disconnecter to busbar system – 32 Nm, recommended tightening torque for screws and nuts with property class 8.8 – 56 Nm.

SWITCH DISCONNECTOR RWS 1250 pro

Main switch-disconnector 1250 A, equipped with ZN3 1250A solid-links

Switch-disconnector's width 100 mm

For installation on 185 mm busbar system



Cable terminal:
two pressed
nuts M12

RWS 1250-6-2M pro

Table 49. Technical data

Parameter		RWS 1250 pro
Rated thermal current $I_{th}=I_n$	A	1250
Rated voltage U_n	V	400
Utilization category	-	AC-22B
Rated switching voltage U_e	V	400
Rated switching current I_e	A	1250
Rated insulation voltage U_i	V	1000
Rated impulse withstand voltage U_{imp}	kV	12
Rated short time withstand current I_{cw}	kA	15/20 ¹⁾
Rated frequency	Hz	50-60
Mechanical durability	Number of cycles	600
Electrical durability	Number of cycles	100
IP degree of protection	-	30
Weight	kg	8,7
Solid links size	-	ZN3 -1250 A

[Accessories on page 56, 57](#)

¹⁾ with mechanical lock

Table 50. Versions

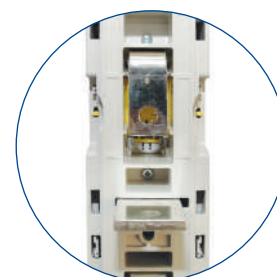
Version		Article No.
for installation on 185 mm busbar system, THREE POLE SWITCHING - all phases simultaneously		
RWS 1250 - 6 - 2M pro	cable terminals: screw terminals with two pressed nuts M12/pole, width 100 mm	63-811828-011
RWS 1250 - 6 - 3M pro	cable terminals: screw terminals with three pressed nuts M12/pole, width 200 mm	63-811828-021
RWS 1250 - 6 - T pro	power supply connection at the back of the switch disconnector, feeding rail's length = 120 mm, feeding rails designed for fixing with M12 screws	63-811861-001
RWS 1250 - 6 - T pro	power supply connection at the back of the switch disconnector, feeding rail's length = 170 mm, feeding rails designed for fixing with M12 screws	63-811861-002
RWS 1250 NL pro	coupling switch-disconnector with lateral busbar terminals; cable terminals: screw terminals with pressed nuts M12, lateral busbar terminal - left side	63-811862-005
RWS 1250 NR pro	coupling switch-disconnector with lateral busbar terminals; cable terminals: screw terminals with pressed nuts M12, lateral busbar terminal - right side	63-811862-001

Table 51. RWS 1250 pro terminal clamps

Description	RWS 1250 pro
Clamp	pressed nuts M12
Drawing of clamp	
Cross-section of conductors	Cable lugs, max 300 mm ²
Tightening torque	56 Nm



cable terminals:
screw terminals with three
pressed nuts M12/pole



RWS 1250 pro
with outgoing terminals
at the back of the switch

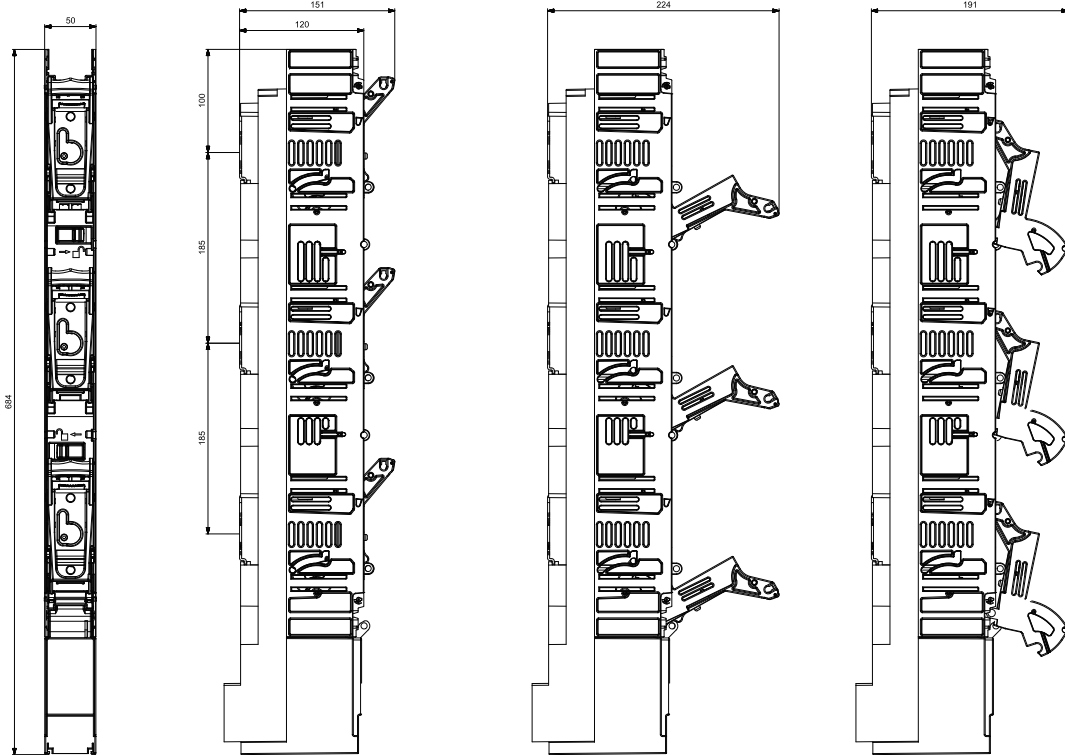
DIMENSIONS

ARS 00-1 evo

CLOSED POSITION

OPEN POSITION

PARKING POSITION

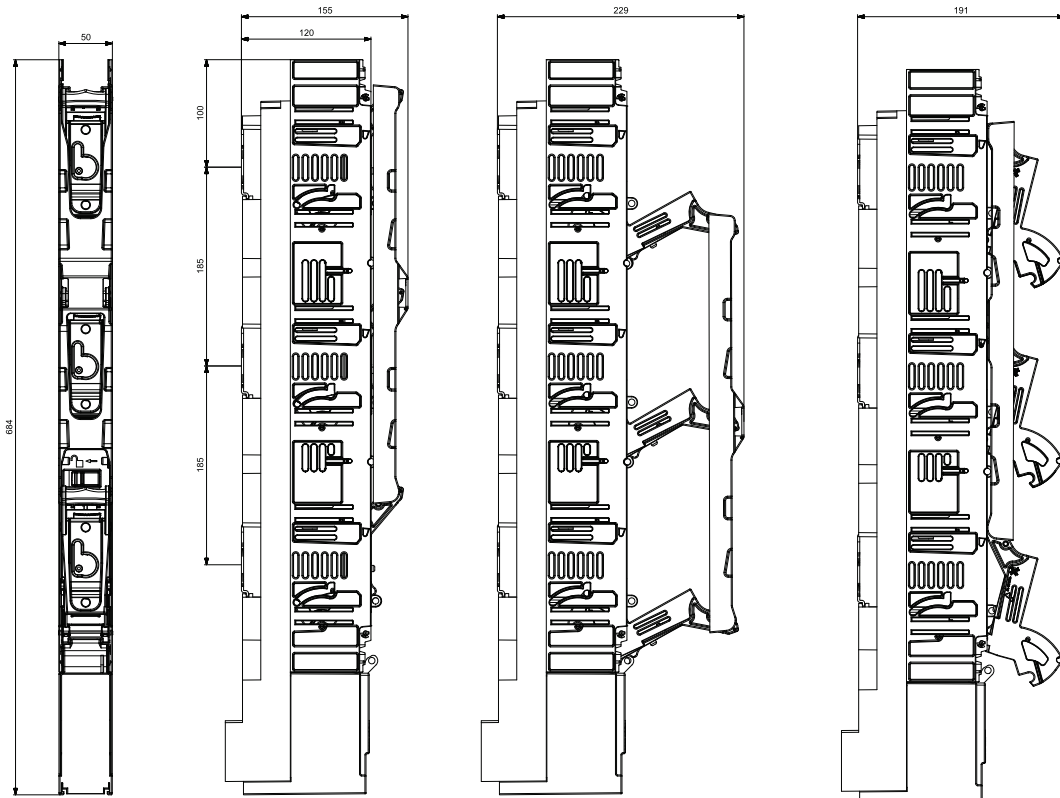


ARS 00-3 evo

CLOSED POSITION

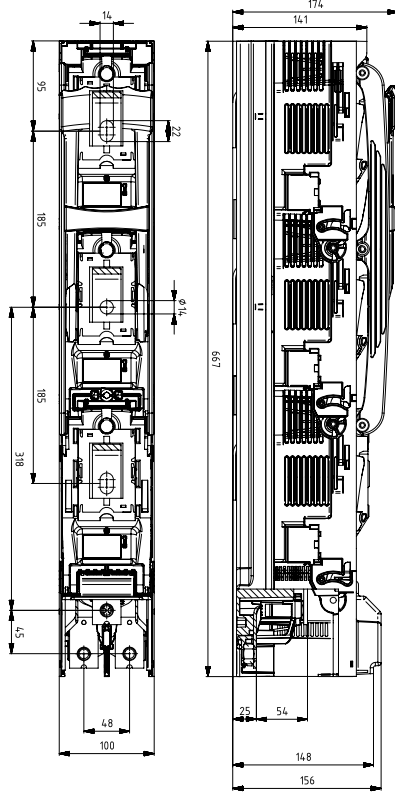
OPEN POSITION

PARKING POSITION

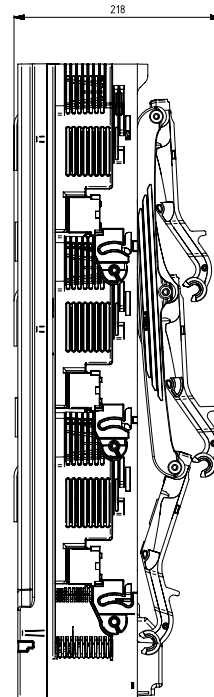


ARS 2-6-M evo, ARS 3-6-M evo

CLOSED POSITION

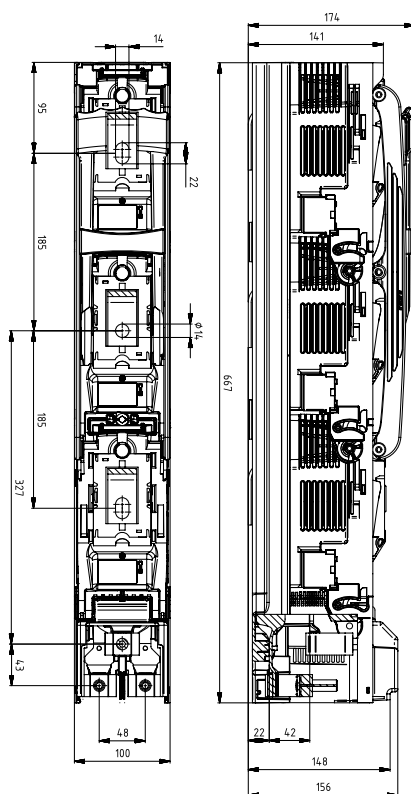


PARKING POSITION

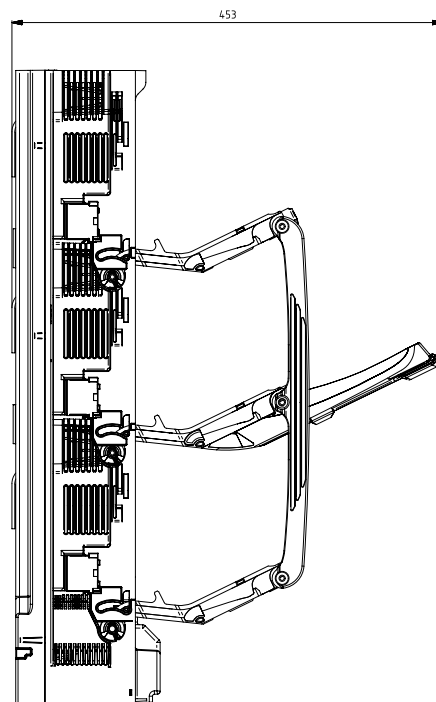


ARS 2-6-V evo, ARS 3-6-V evo

CLOSED POSITION



OPEN POSITION



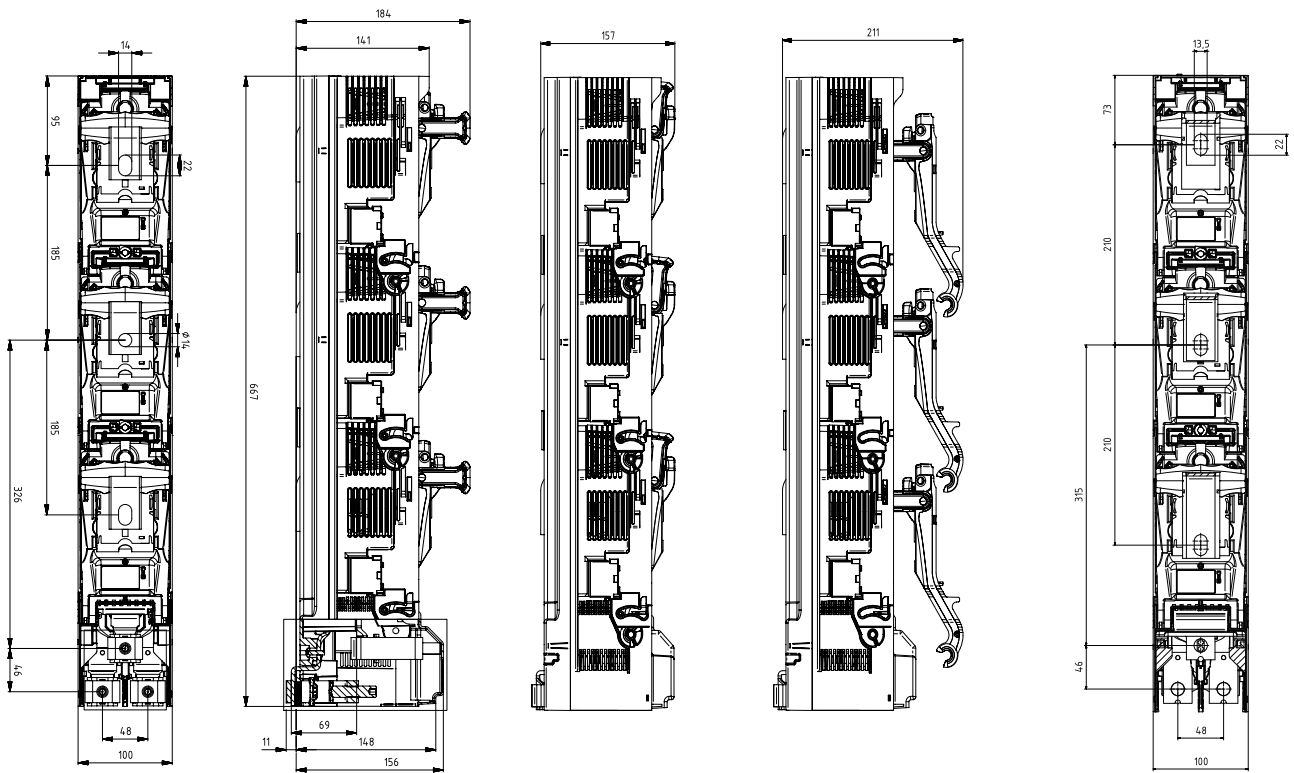
ARS 2-1-2V evo, ARS 3-1-2V evo

ARS 2,3 evo 210

CLOSED POSITION

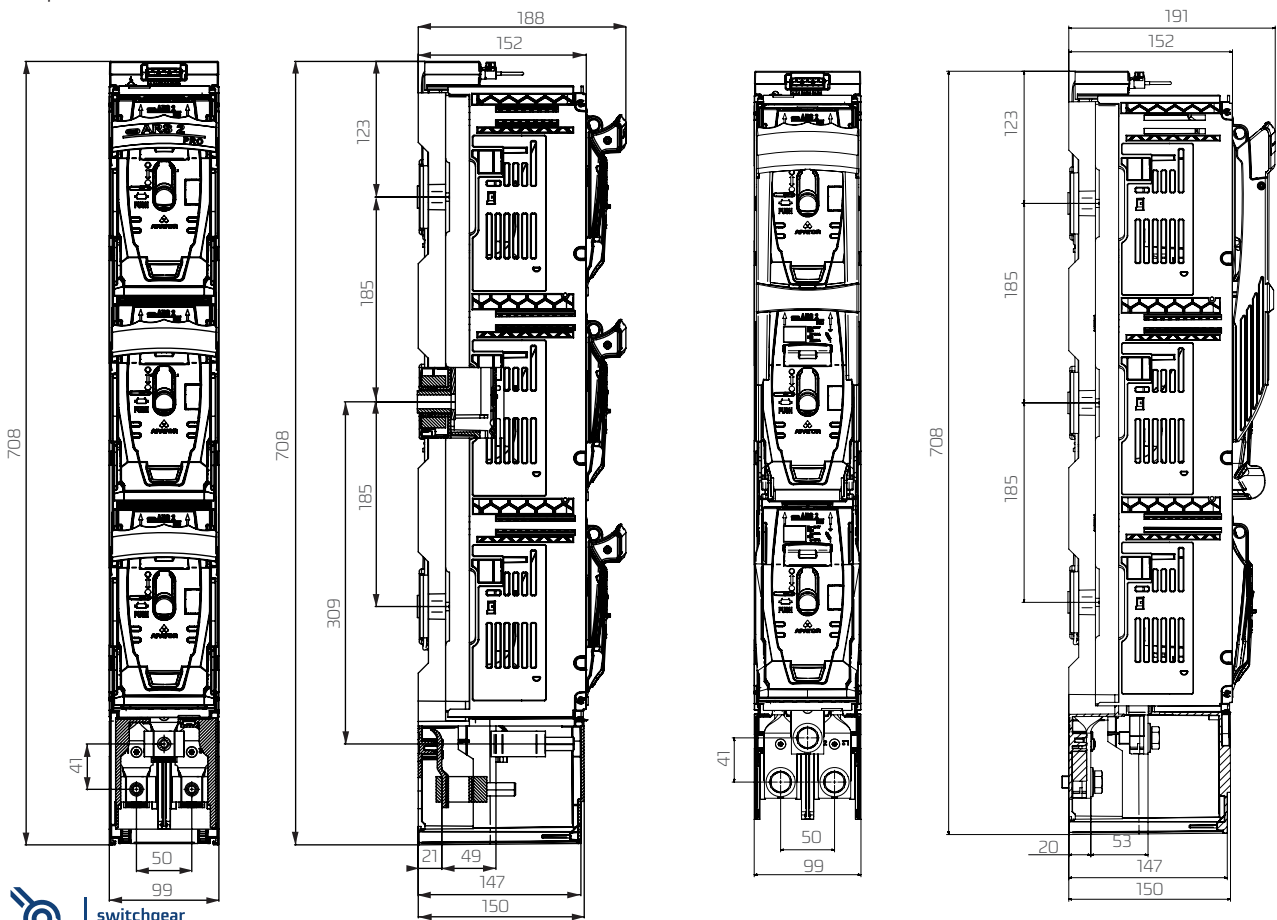
CLOSED POSITION WITH RETRACABLE HANDLES

PARKING POSITION

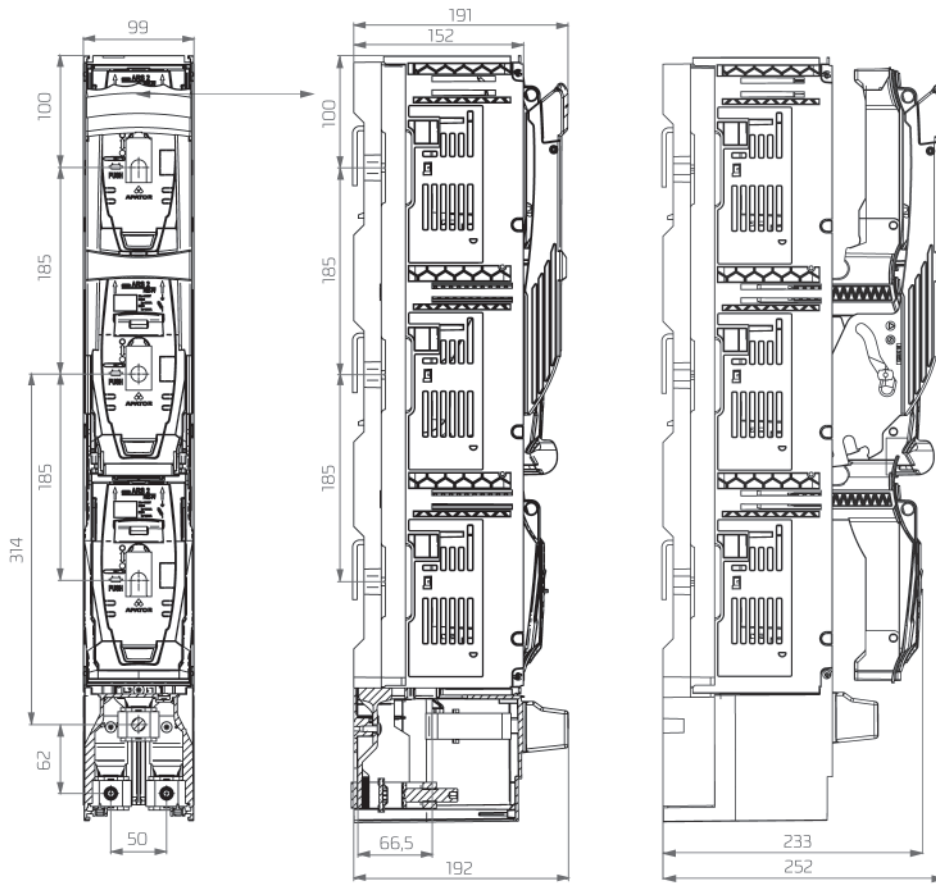


smartARS 2 P pro, smartARS 3 P pro
1-phase

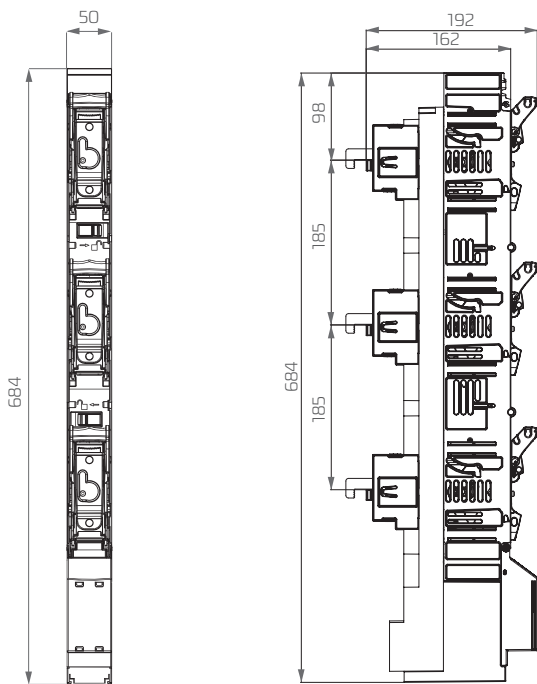
3-phase



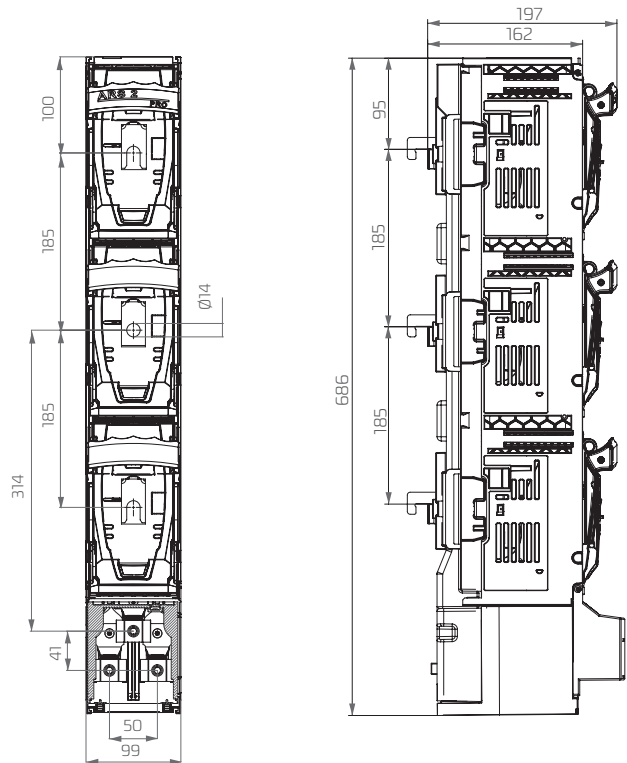
smartARS 2,3 -2V pro-PV



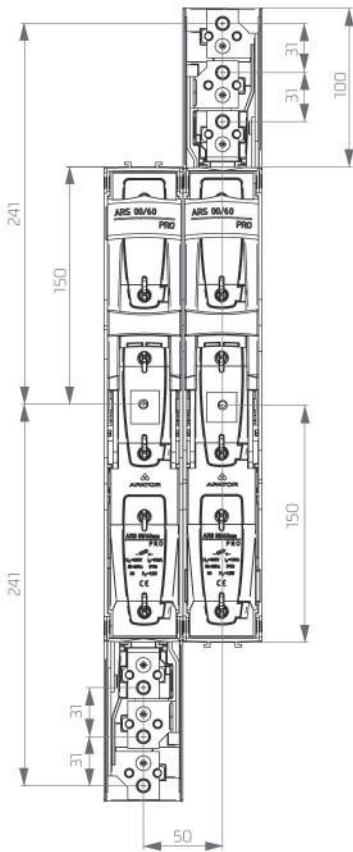
smartARS 00-W-H pro



smartARS 2,3-H pro

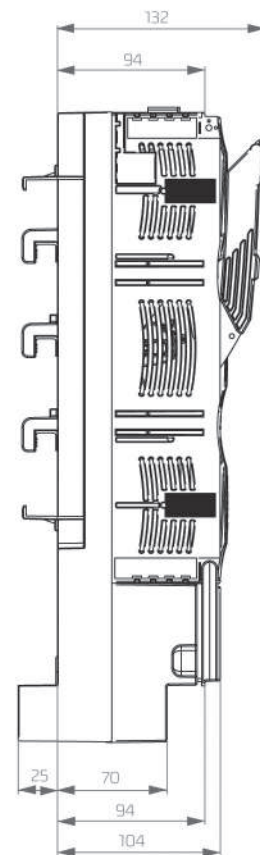
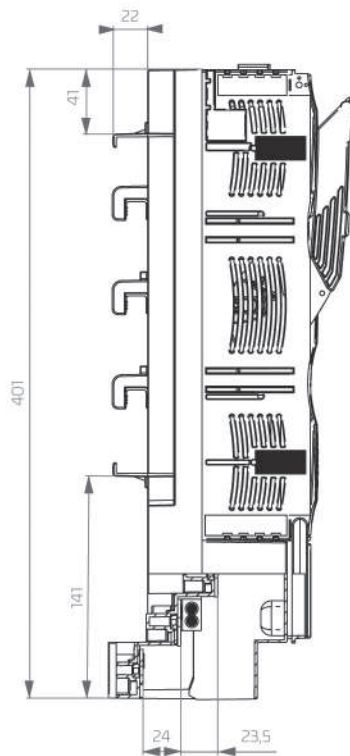
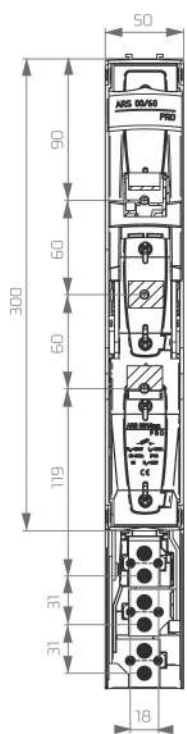
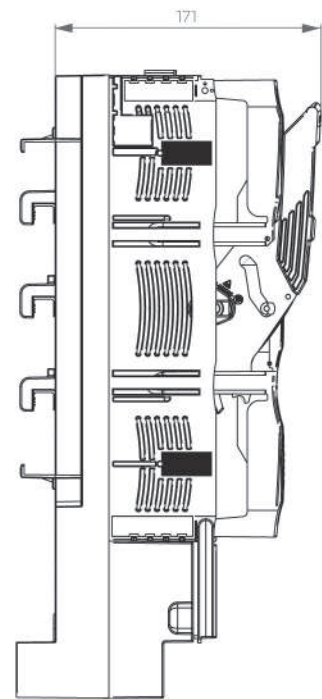
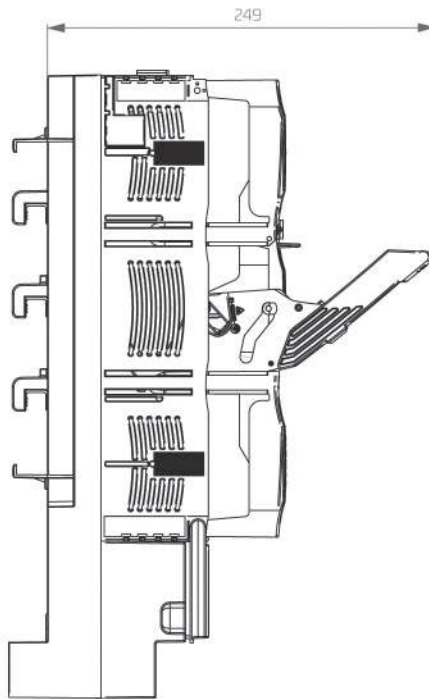


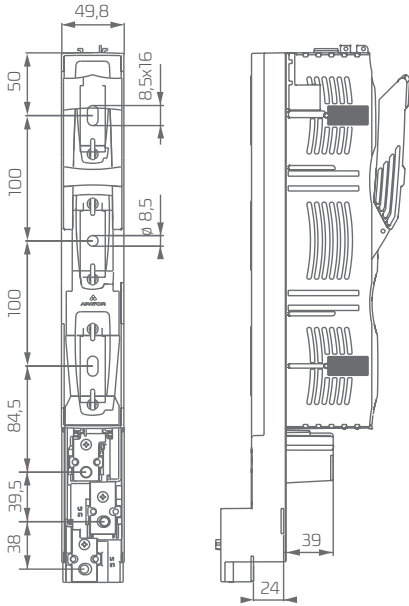
ARS 00/60 mm pro



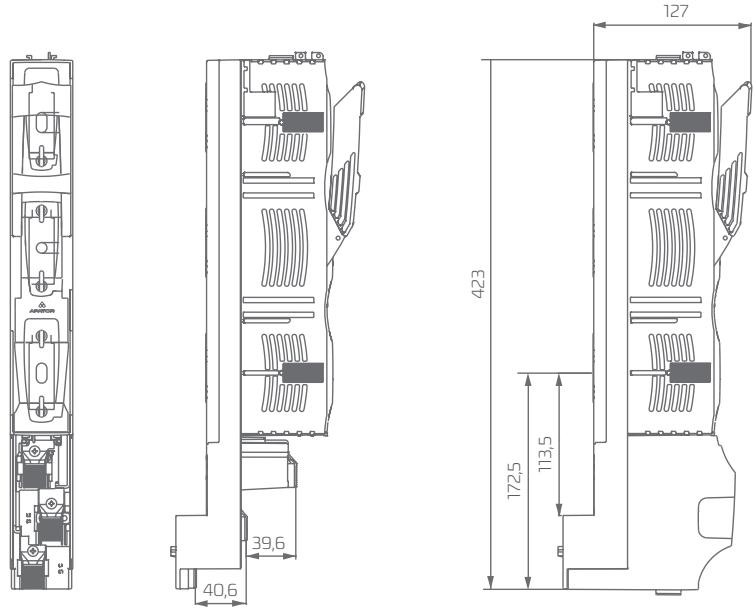
OPENED

PARKED

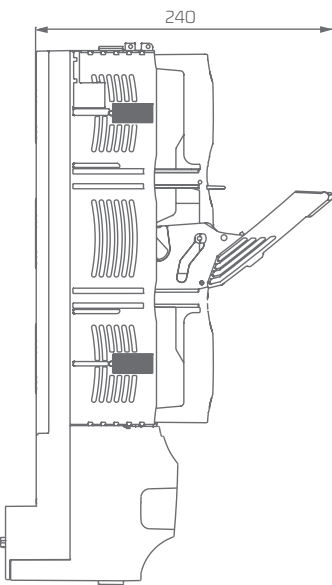




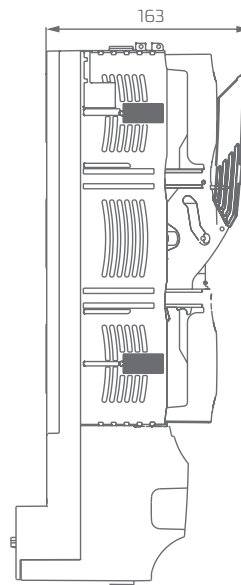
CLOSED



OPENED



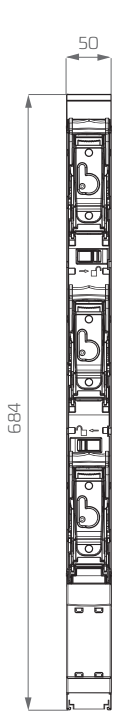
PARKED



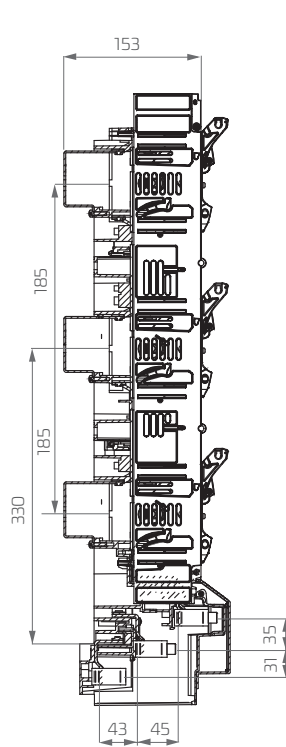
ARS 00, smartARS 00 pro

1-phase

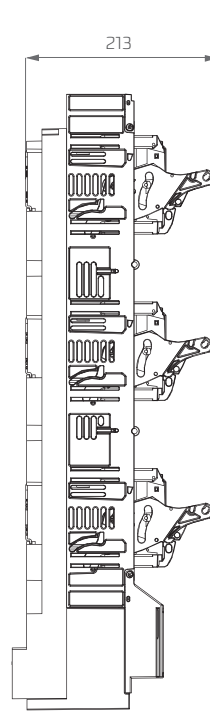
CLOSED



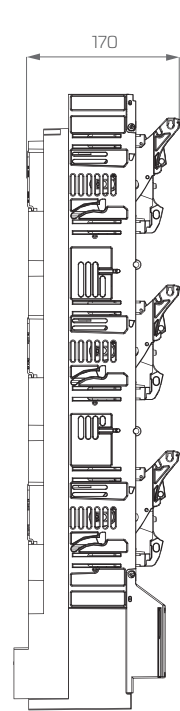
HEIGHTENED



OPENED

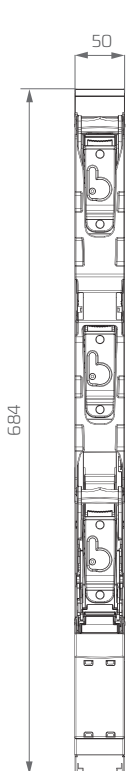


PARKED

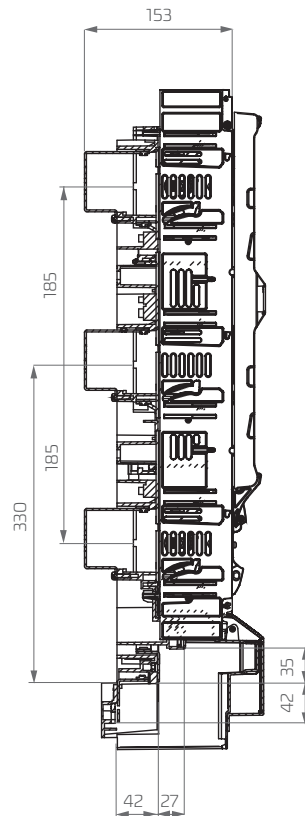


3-phase

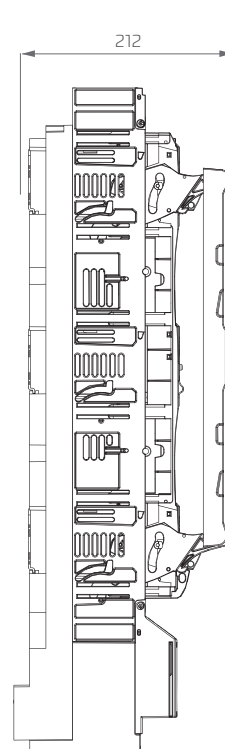
CLOSED



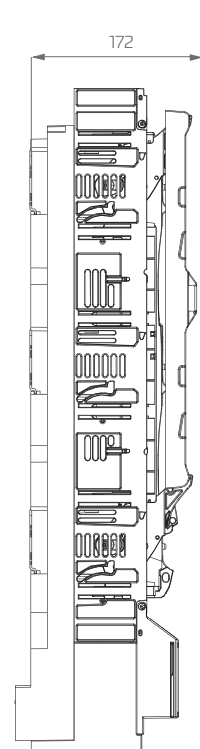
HEIGHTENED



OPENED

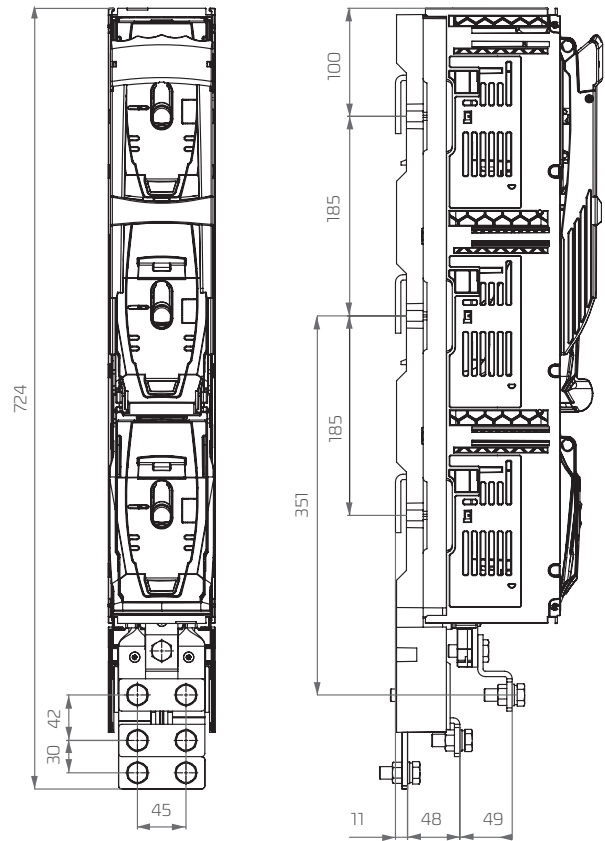
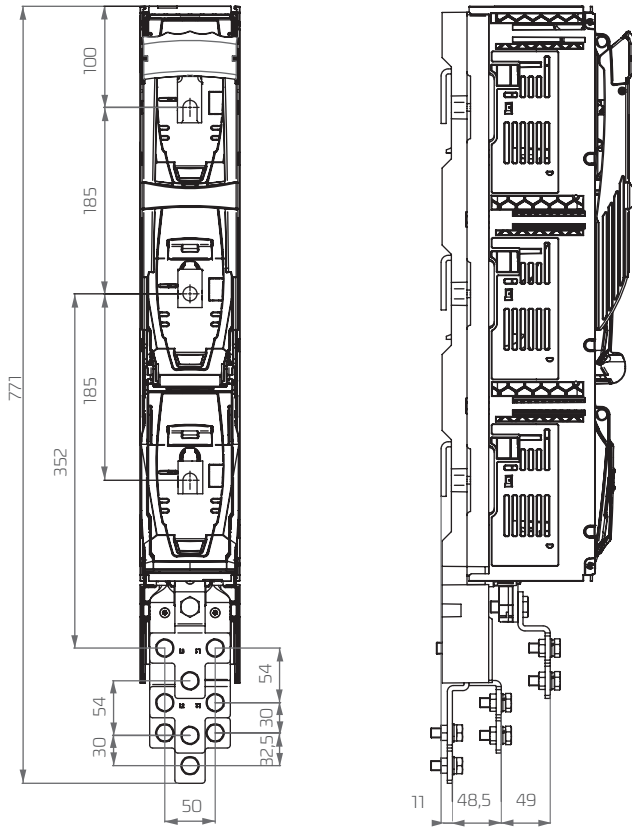


PARKED



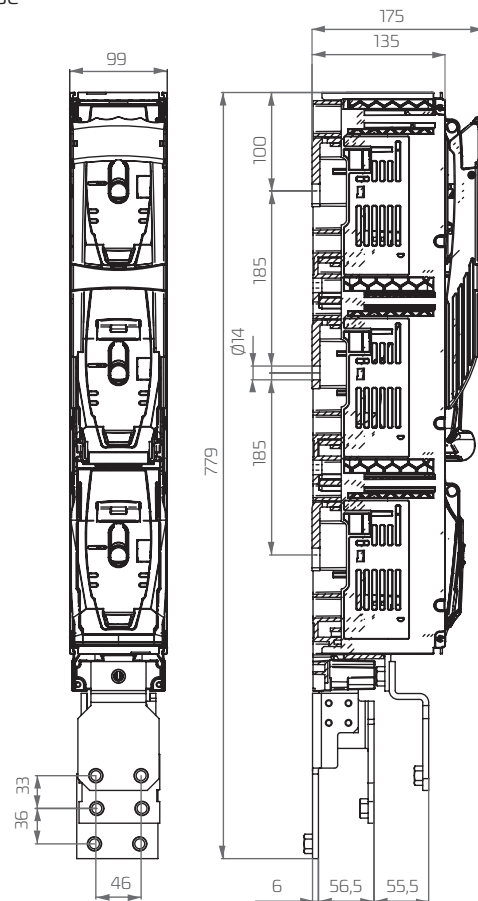
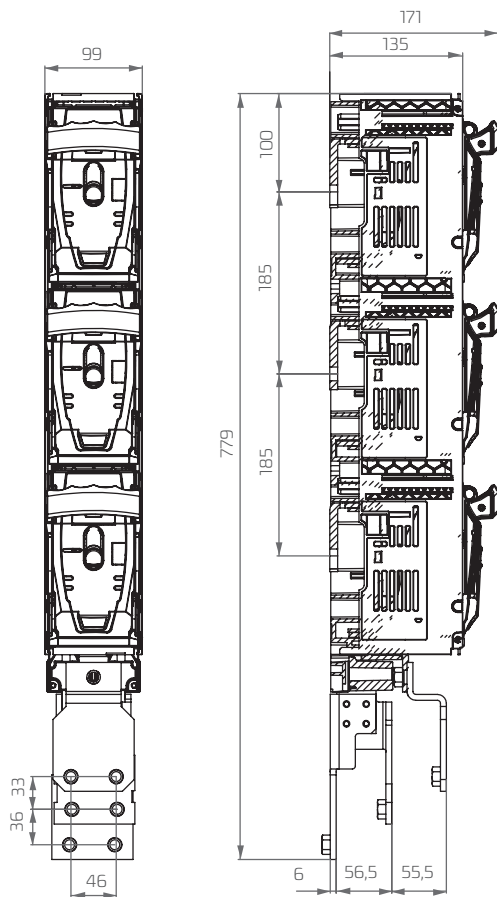
Terminals 3x120 mm²

Terminals 2x240 mm²

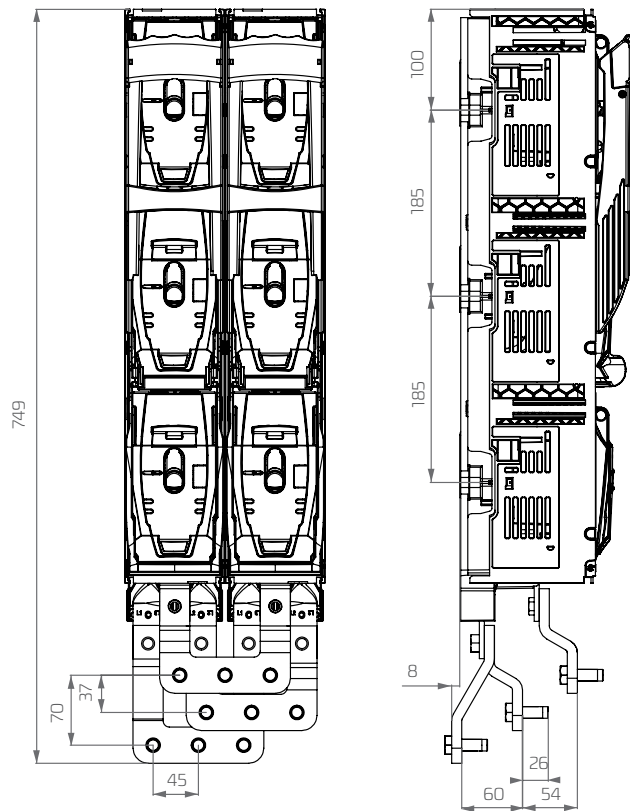


ARS 630 kVA pro
1-phase

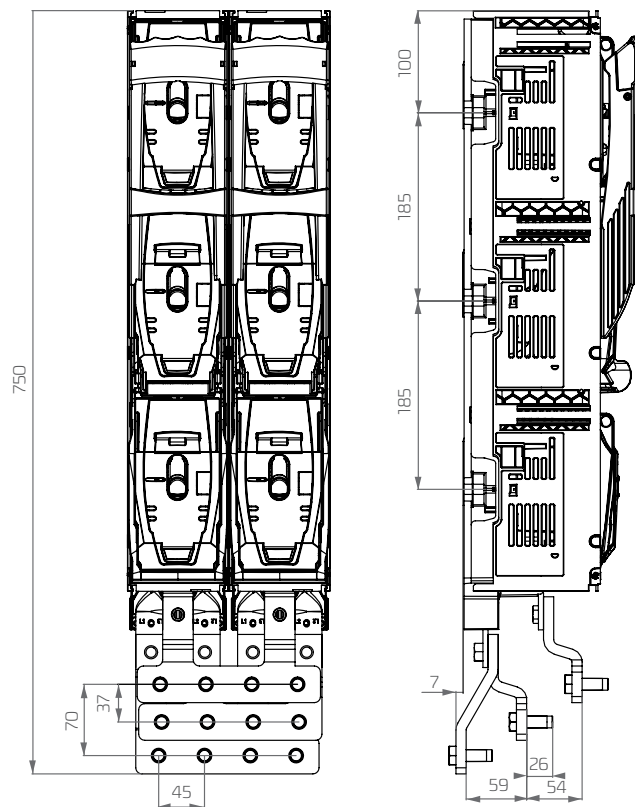
ARS 630 kVA pro, RWS 1250 pro
3-phase



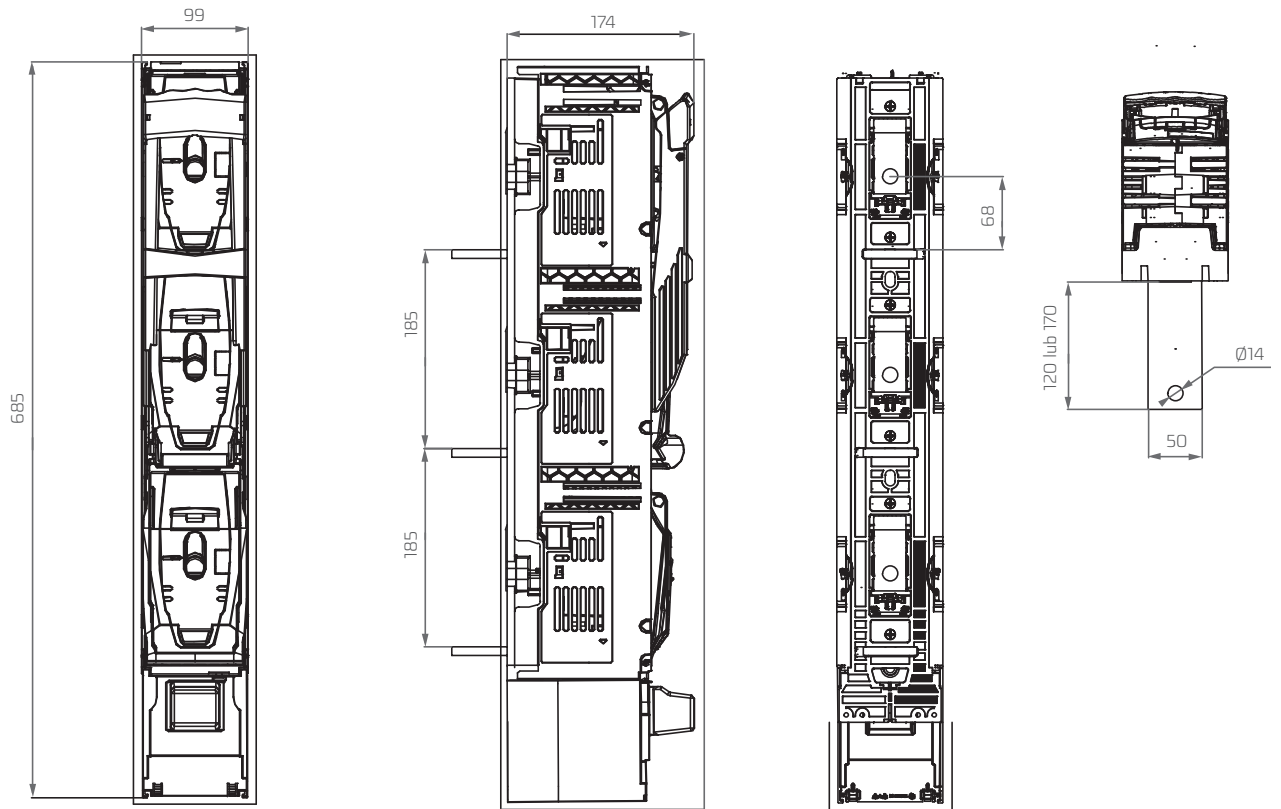
ARS 1250-6-3M pro



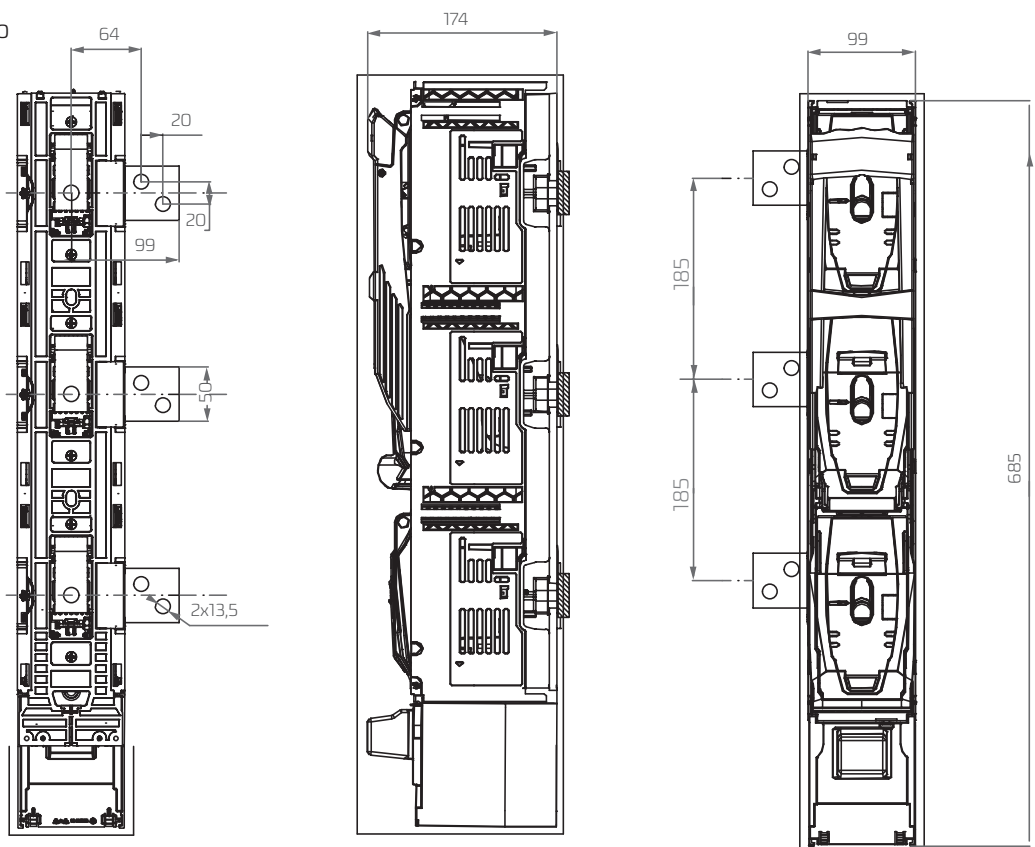
ARS 1250-6-4M pro



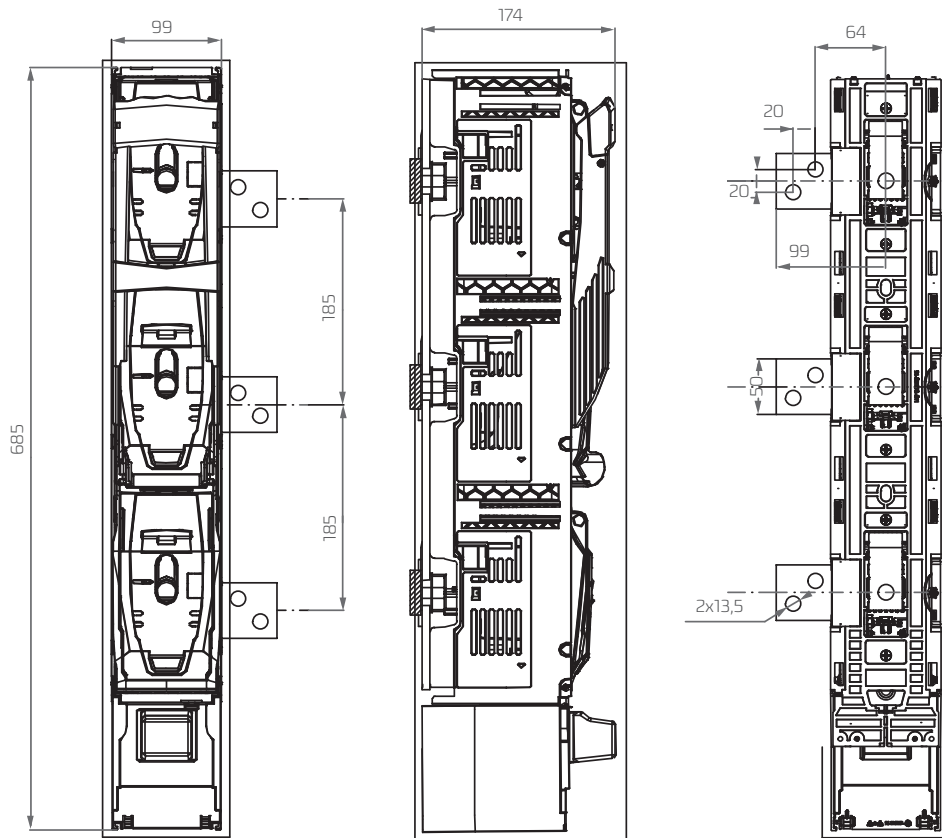
RWS 1250-NT pro



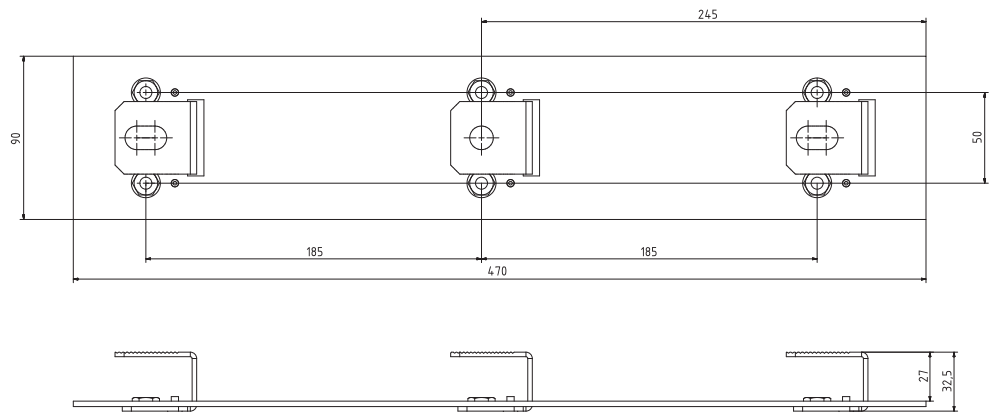
RWS 1250-NL pro



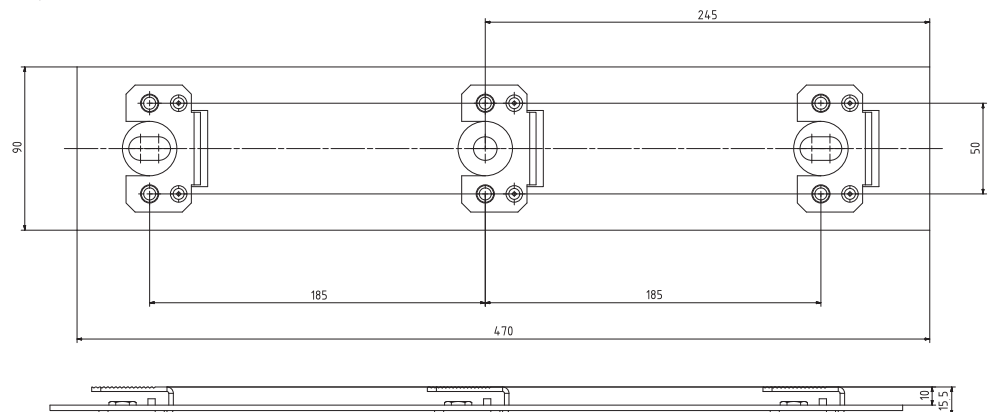
RWS 1250-NR pro



Double adapter adjusts the height of smartARS 00 pro to the height smartARS 2,3 pro - article No. 1115281023T



Double adapter adjusts the height of ARS 00 evo to the height ARS 2,3 evo - article No.1115281024T





smartARS 00 pro, ARS 00/100mm pro, ARS 00 evo - accessories

Description	Article No.	Picture
M8 terminal screw, for connection of conductors with lug terminal (set - 3 pcs.)	53-082961-001	
Busbar shroud (polycarbonate) for busbar system 185 mm, Width 50 mm, length 562 mm, thickness 3 mm	1361400006T	
Isolating pin for fixing the 50 mm busbar shroud, M8 (set – 2 pcs.)	1361400001T	
Distance sleeve for current transformer APA-W10 (Length 36 mm, outer diameter = 22,5 mm, inner diameter = 12,5 mm)	1115718010T	
S-bridge clamp – fixed with 2 x M5 screw - for connection of conductors with cross-section 4 mm ² up to 70 mm ² (set – 3 pcs.)	53-002143-001	
V-shape clamp – S-bridge clamp + V-shape saddle - for connection of sector-shaped conductors with cross-section 1,5 up to 70 mm ² (stranded) or 95 mm ² (solid) (set - 3 pcs.)	53-001462-001	
Universal earthing device for ARS 00, 1, 2, 3	1115281041T	
V- clamp 25-120 SW. For connection of conductor with cross-section:	1119510008T	
16 - 95 mm ²  16 - 95 mm ² 		
25 - 120 mm ²  25 - 120 mm ² 		
V- clamp HM-10-120. For connection of conductor with cross-section:	1119510077T	
10 - 70 mm ²  10 - 70 mm ² 		
25 - 120 mm ²  25 - 95 mm ² 		
Hooked clamps for installation of ARS on to busbar system without drilled holes. (set - 3 pcs.)	53-945361-011	











smartARS 00-1 pro ARS 00/100 mm pro

ARS 00/100mm pro - accessories








Description	Article No.	Picture
Micro switch for fuse link cover position monitoring (0-1) of ARS 00/100mm	1115296049	
Support angle for installation of busbar shroud	1115281081T	



ARS 00/100 mm pro


























Description	Article No.	Picture
Labelling area	53-945333-011	
Terminal shroud/adjusting shroud	53-945924-011	
Flat terminal shroud	51-011242-001	
Flat terminal shroud in RAL 7035 (grey)	51-0011242-002	
Extended terminal shroud. Together with two flat terminal shrouds 51-011242-001 it adjusts the length of smartARS 2,3 pro, ARS 400, ARS 400 pro, ARS 630 and ARS 630 pro	51-823245-001	
Extended terminal shroud in RAL 7035 (grey). Together with two flat terminal shrouds 51-011242-002 it adjusts the length of smartARS 2,3 pro, ARS 400, ARS 400 pro, ARS 630 and ARS 630 pro	51-823245-002	
Single adapter 100/185 enabling to install ARS 00/100 mm on busbar system 185 mm	1115281021T	
Double adapter 100/185 enabling to install two ARS 00/100 mm units on busbar system 185 mm at perforation holes in busbar system every 100 mm	1115281022T	

smartARS 00 pro, ARS 00 evo - accessories

Description	Article No.	Picture
Double adapter adjusts the height of smartARS 00 pro to the height smartARS 2,3 pro	1115281023T	
Double adapter adjusts the height of smartARS 00 pro to the height ARS 400, 630	1115281024T	
Single distance adapter 185/185 for ARS 00 or smartARS 00 pro adjusts the front line to ARS 400 or ARS 400 pro (set – 3 pcs.)	51-005241-001 (no. regard 1 pc.)	
Single distance adapter 185/185 for ARS 00 or smartARS 00 pro adjusts the front line to smartARS 2,3 pro (set – 3 pcs.)	51-005242-001 (no. regard 1 pc.)	
Double distance adapter 185/185 for two units ARS 00 or smartARS 00 pro adjusts the front line to ARS 400 or ARS 400 pro at perforation holes in busbar system every 100 mm (set – 3 pcs.)	52-005262-001 (no. regard 1 pc.)	
Double distance adapter 185/185 for two units ARS 00 or smartARS 00 pro adjusts the front line to smartARS 2,3 pro at perforation holes in busbar system every 100 mm (set – 3 pcs.)	52-005263-001 (no. regard 1 pc.)	
Hooked clamps (set - 3 pcs.) for smartARS 00 pro with heighthened rails adjusted to front line of smart ARS 2,3 pro	53-945361-041	



smartARS 00-1 pro

Description	Article No.	Picture
M10 terminal screw, for connection of conductors with lug terminal (set - 3 pcs.)	53-082961-002	
M12 terminal screw, for connection of conductors with lug terminal (set - 3 pcs.)	53-082961-003	
V-clamp with tightening torque 30 Nm for connection of conductor with cross-section:	1119510081T	
35 - 120 mm ²  35 - 150 mm ² 		
35 - 240 mm ²  35 - 300 mm ² 		
V-clamp with tightening torque 40 Nm for connection of conductor with cross-section:	1119510084T	
35 - 185 mm ²  35 - 240 mm ² 		
35 - 240 mm ²  35 - 300 mm ² 		
Double V-clamp with tightening torque 30 Nm for connection of two conductors with cross-section:	1119510082T	
50 - 185 mm ²  50 - 240 mm ² 		
50 - 240 mm ²  50 - 300 mm ² 		
Double V-clamp with tightening torque 30 Nm for connection of two conductors with cross-section:	1119510085T	
50-185 mm ²  50-240 mm ² 		
50-240 mm ²  50-300 mm ² 		
Cable terminal 2x240 mm ² Cable terminal for connection of two cables with lug terminals and cross-section of 240 mm ² to each phase Set contains two M12 screws per terminal and cable terminal shroud. For use with ARS 2 pro, ARS 3 pro, ARS 400 with M terminals	53-931200-001	
Cable terminal 3x120 mm ² Cable terminal for connection of three cables with lug terminals and cross-section of 120 mm ² to each phase Set contains three M12 screws per terminal and cable terminal shroud. For use with ARS 2 pro, ARS 3 pro, ARS 400 with M terminals	53-931201-001	
Hooked clamps for installation of ARS 1, 2, 3 on to busbar system without drilled holes (set - 3 pcs.)	1115281037T	



ARS 630-1-M pro smartARS 2-1-M pro



smartARS 3-1-M pro ARS 630 kVA pro



ARS 1250-1-3M pro

Description	Article No.	Picture
Busbar shroud (polycarbonate) for busbar system 185 mm, Width 100 mm, length 707 mm, thickness 2 mm	1361400007T	
Isolating pin for fixing the 100 mm busbar shroud, M12 (set – 2 pcs.)	1361400002T	
Terminal protective cover	51-930272-011	
Distance sleeve for current transformer APA-W12 Length 36 mm, outer diameter =22,5 mm, inner diameter =12,5 mm	1115718010T	
Universal earthing device for: 00, 1, 2, 3	1115281041T	
Rotary cover 2V	51-000487-001	