



It's evolution - our new **fuse switch disconnector**

ARS evo



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Based on our long experience in the field of switchgear, we have developed a structurally well-thought-out solution in the form of a fuse switch disconnector, the **ARS evo**. It is an outstanding product with features such as safety, functionality and flexibility.



- safe and stable power distribution network
- parking position
- the fuse link can be released without direct contact
- special construction allows better heat dissipation



Functionality

- easy to install
- non-parallel disconnector
- 2 versions of switching: single-pole and three-pole



Flexibility

- retractable handle
- reversibility top/bottom cable terminal connection
- padlock can be installed in open/closed position

Versions of ARS evo



ARS 00-1 evo



ARS 00-3 evo



ARS 2-1 evo



ARS 2-6 evo



ARS 3-1 evo



ARS 3-6 evo



ARS 00 evo

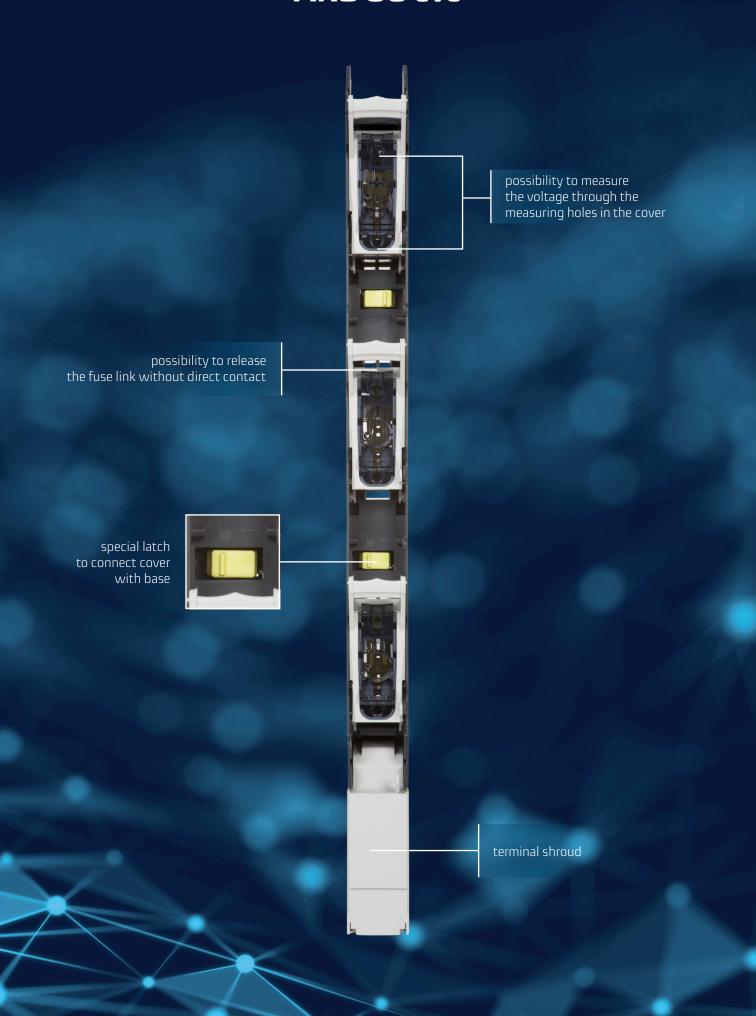




Table 1. Technical data of ARS 00 evo

Parameter			ARS 00	evo
Rated thermal current $I_{th}=I_{n}$		А	160	
Rated voltage U _n		V	690	
Utilization category		-	AC-23B	AC-22B
Rated operational voltage U _e		V	400	690
Rated operational current I _e		А	160	
Rated short circuit making	690 V	kA	80	
current	500 V	KA	100	
Rated short circuit withstand	690 V	kA	80	
current	500 V	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	1600	
Electrical durability		of cycles	200	
IP degree of protection		-	30	
Fuse links size		-	00	
Max. permis. power loss per fuse-link NH (00	W	12	



Table 2. Versions of ARS 00 evo

Fuse switch disconnec	Article No.				
For installation on 185	For installation on 185 mm busbar system; SINGLE-POLE SWITCHNG – each phase independently				
ARS 00-1 evo	cable terminals: bridge terminals (S) 4-70 mm ²	63-500750-601			
ARS 00-1-V evo	cable terminals: V-terminals: V-clamps 25-1505W	63-500750-602			
ARS 00-1-M evo	cable terminals: M8 screw terminals	63-500750-603			
ARS 00-1-2T evo	cable terminal : double frame clamps	63-500750-607			
For installation on 185 mm busbar system; THREE-POLE SWITCHING – all phases simultaneously					
ARS 00-3 evo	cable terminals: bridge terminals (S) 4-70 mm ²	63-500750-701			
ARS 00-3-V evo	cable terminals: V-terminals: V-clamps 25-1505W	63-500750-702			
ARS 00-3-M evo	cable terminals: M8 screw terminals	63-500750-703			
ARS 00-3-2T evo	cable terminal : double frame clamps	63-500750-707			

Table 3. ARS 00 evo terminal clamps

Description	ARS 00-M evo	ARS 00-V evo	ARS 00 evo	ARS 00 2T evo
Clamp	M8 screw*	V-clamp 25-150 SW	S-bridge clamp 2 x M5 x 25	double frame clamp
Picture of clamp			V and	
Drawing of clamp				
Cross –section of conductors	Conductor with lug terminal max. 185 mm ²	re 16 mm²-95 mm² se 25 mm²-150 mm² rm 8 16 mm²-95 mm²	4-70 mm²	4 ÷ 95 mm²
Tightening torque	12 Nm**	sm 🖚 25 mm²-150 mm² 20 Nm**	3 Nm**	○ 6 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
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.

ARS evo

retractable handle in the single-pole switching version



arc chamber with deionization plates over upper contacts

possibility to measure the voltage through the measuring holes in the cover

possibility to release the fuse link without direct contact







possibility to install a microswitch

terminal shroud integrated with cover









ARS 2-1-V evo single-pole switching

closed position parking position open position

ARS 3-1-M evo single-pole switching

possibility to retract the handle in the closed position

ARS 2-6-2V evo three-pole switching

open position

ARS 3-6-M evo three-pole switching

parking position

Table 4. Technical data of ARS 2, 3 evo

Parameter		ARS 2 evo	ARS 3 evo	
Rated thermal current I _{th} =I _n			630	
Rated voltage U	V	690		
Rateu voitage o _n	V	חבם	690	
			single-pole switching	three-pole switching
Utilization category			AC 21B/690 V/630 A	
· · · · · · · · · · · · · · · · · · ·		AC 22B/690 V/400 A	AC 22B/500 V/630 A	AC 22B/690 V/630 A
		AC 23B/400 V/400 A	AC 23B/400 V/630 A	AC 23B/400 V/630 A
Rated operational voltage $U_{\rm e}$	V	690	69	0
Rated operational current I_e	А	400	63	0
Rated short circuit	kA	120 at 690 V	100 at	690 V
making current	KA	120 at 500 V	120 at 500 V	
Rated short circuit	kA	120 at 690 V	100 at	690 V
withstand current	KA	120 at 500 V	120 at !	500 V
Rated insulation voltage U _i	V	1000	100	00
Rated impulse	kV	12	12)
withstand voltage U _{imp}	K U	IL.	IC	
Mechanical durability	Number	1000	1000	
Electrical durability	of cycles	200	200	
IP degree of protection	-	30	30	
Fuse link size	-	NH1, NH2	NH1, NH2, NH3	
Max. power dissipation per fuse link	-	NH1 - 32 W, NH2 - 36 W	NH1 32 W, NH2 - 48 W, NH3 - 48 W	

Table 5. Versions of ARS 2, 3 evo

Version		Article No.		
Fuse switch disconnecte	ors ARS 2 evo – 400 A			
For installation on 185 m	nm busbar system; SINGLE-POLE SWITCHNG – each phase independently			
ARS 2-1-M evo	cable terminals: screw terminals: nuts M12/bolts M12	63-500700-611		
ARS 2-1-V evo	cable terminals: V-terminals: V-clamps 240 mm²	63-500700-612		
ARS 2-1-2V evo	cable terminals: 2V-terminals: double V-clamps 240 mm ²	63-500700-613		
For installation on 185 m	nm busbar system; THREE-POLE SWITCHING – all phases simultaneously			
ARS 2-6-M evo	cable terminals: screw terminals: nuts M12/ bolts M12	63-500700-711		
ARS 2-6-V evo	cable terminals: V-terminals: V-clamps 240 mm²	63-500700-712		
ARS 2-6-2V evo	cable terminals: 2V-terminals: double V-clamps 240 mm ²	63-500700-713		
Fuse switch disconnectors ARS evo 3 – 630 A				
For installation on 185 m	nm busbar system; SINGLE-POLE SWITCHNG – each phase independently			
ARS 3-1-M evo	cable terminals: screw terminals: nuts M12/ bolts M12	63-500700-621		
ARS 3-1-V evo	cable terminals: V-terminals: V-clamps 240 mm²	63-500700-622		
ARS 3-1-2V evo	cable terminals: 2V-terminals: double V-clamps 240 mm²	63-500700-623		
For installation on 185 mm busbar system; THREE-POLE SWITCHING – all phases simultaneously				
ARS 3-6-M evo	cable terminals: screw terminals: nuts M12/ bolts M12	63-500700-721		
ARS 3-6-V evo	cable terminals: V-terminals: V-clamps 240 mm²	63-500700-722		
ARS 3-6-2V evo	cable terminals: 2V-terminals: double V-clamps 240 mm ²	63-500700-723		

Table 6. Versions of ARS evo 210

Version		Article No.		
Fuse switch disconnecto	rs ARS evo 210			
For installation on 210 m	m busbar system; SINGLE-POLE SWITCHNG – each phase independently			
ARS 2-1-M evo 210	cable terminals: screw terminals: nuts M12/ bolts M12	63-500700-614		
ARS 2-1-V evo 210	cable terminals: V-terminals: V-clamps 240 mm ²	63-500700-615		
ARS 2-1-2V evo 210	cable terminals: 2V-terminals: double V-clamps 240 mm ²	63-500700-616		
For installation on 210 m	m busbar system; THREE-POLE SWITCHING – all phases simultaneously			
ARS 2-6-M evo 210	cable terminals: screw terminals: nuts M12/ bolts M12	63-500700-714		
ARS 2-6-V evo 210	cable terminals: V-terminals: V-clamps 240 mm ²	63-500700-715		
ARS 2-6-2V evo 210	cable terminals: 2V-terminals: double V-clamps 240 mm ²	63-500700-716		
For installation on 210 m	m busbar system; SINGLE-POLE SWITCHNG – each phase independently			
ARS 3-1-M evo 210	cable terminals: screw terminals: nuts M12/ bolts M12	63-500700-624		
ARS 3-1-V evo 210	cable terminals: V-terminals: V-clamps 240 mm²	63-500700-625		
ARS 3-1-2V evo 210	cable terminals: 2V-terminals: double V-clamps 240 mm ²	63-500700-626		
For installation on 210 mm busbar system; THREE-POLE SWITCHING – all phases simultaneously				
ARS 3-6-M evo 210	cable terminals: screw terminals: nuts M12/ bolts M12	63-500700-724		
ARS 3-6-V evo 210	cable terminals: V-terminals: V-clamps 240 mm ²	63-500700-725		
ARS 3-6-2V evo 210	cable terminals: 2V-terminals: double V-clamps 240 mm ²	63-500700-726		

Table 7. Accessories

Description		Article No.	Picture
Terminal shroud for top connection		51-500700-109	
NO - normally open microswitch	IEC/EN 60947 U = 6 kV U = 500 V AC - 15 230/400/500 V 6/4/2 A	1115296318T	NO W
NC - normally closed microswitch	AÜÜ – 15 230/400/500 V 6/4/2 A DC -13 24/110/220 V 3/0.8/0,3 A	1115296319T	NC 🗰

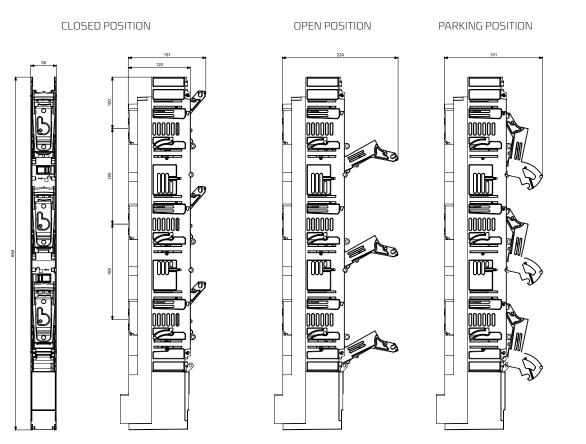


Table 8. ARS 2, 3 evo terminal clamps

Description	ARS -V evo	ARS -2V evo		ARS-M evo	
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					
	V-clamp for direct fi				
Cross – section	35 - 240 mm ²	50 - 240 mm ²	● 50 - 240 mm²	Lugtorminal	
of conductors	→ 35 - 300 mm²	◆ 50 - 300 mm²	◆ 50 - 300 mm²	Lug terminal	
		⊗ 50 - 185 mm²			
	◆ 35 - 240 mm²	◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆	◆ 50 - 240 mm²		
Tightening torque	30 Nm	30 Nm	40 Nm	32 Nm	

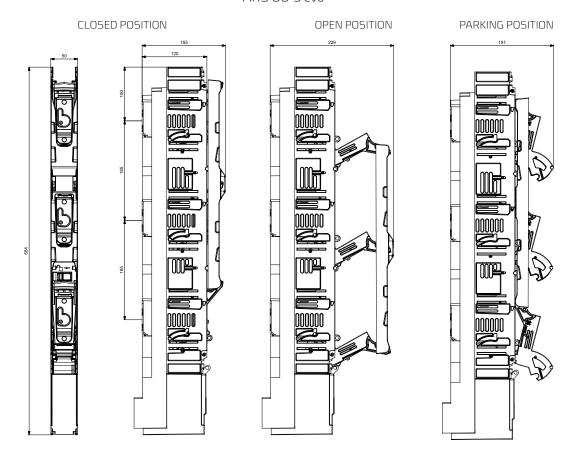
DIMENSIONS

ARS 00-1 evo

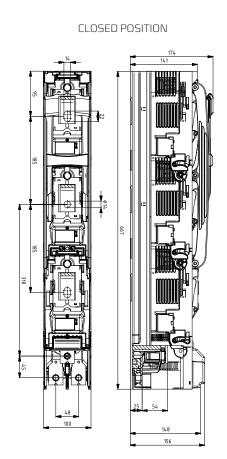


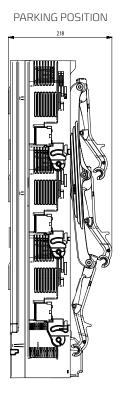
For stranded conductors using bare end of conductor/lug terminals is recommended
*) if the fuse switch disconnector with a 2V-type clamp is to be equipped with a steel V-clamp HS 2/50-240-C, it should be included in the order
**) bars of maximum width of 40 mm and maximum thickness of 8 mm can be fixed 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 disconnector to busbar system – 32 Nm, recommended tightening torque for screws and nuts with property class 8.8 – 32 Nm.

ARS 00-3 evo



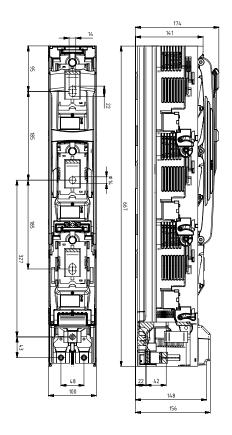
ARS 2-6-M evo, ARS 3-6-M evo

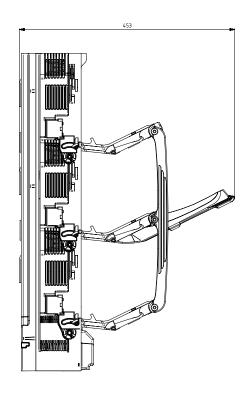




ARS 2-6-V evo, ARS 3-6-V evo

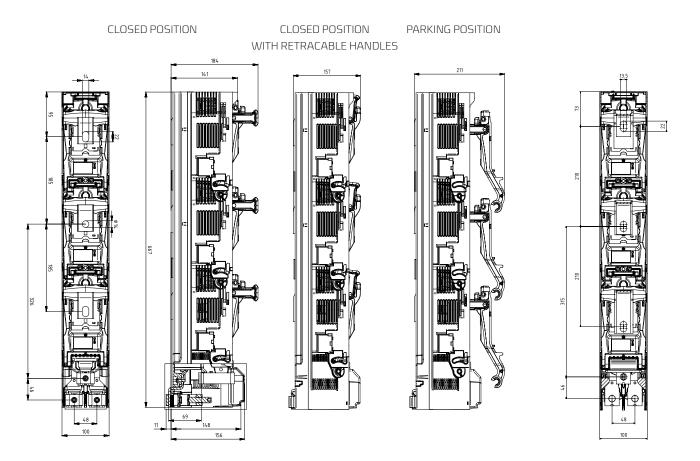
CLOSED POSITION OPEN POSITION





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

ARS 2,3 evo 210



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