



It's evolution - our new fuse switch disconnector ARS evo



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**. This is an outstanding product with features such as safety, functionality and flexibility.



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



Functionality

- easy to install
- non-paralell 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

Variantes of ARS evo













ARS 00-1-M evo

ARS 00-3-M evo

ARS 2-1 evo

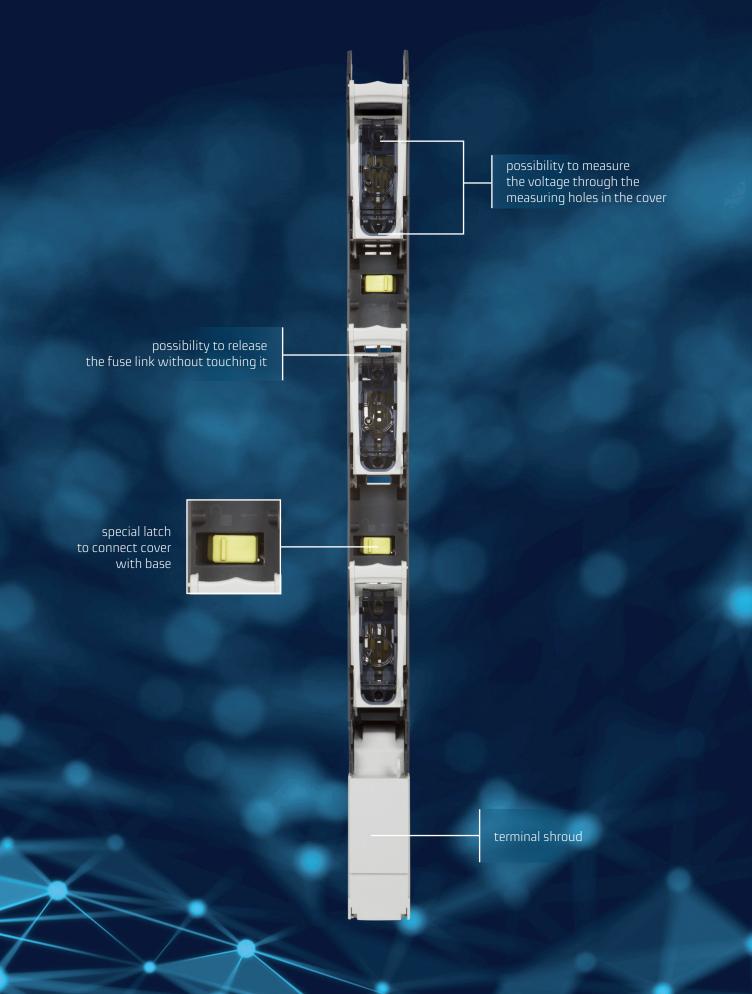
ARS 2-6 evo

ARS 3-1 evo

ARS 3-6 evo



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ARS 00-1-M evo single-pole switching

open position



ARS 00-3-M evo three-pole switching

open position



ARS 00-3-M evo

parking position

Table 1. Technical data

Parameter		ARS 00 evo			
Rated thermal current $I_{th} = I_n$		А	160)	
Rated voltage U _n		V	690	690	
Utilization category		-	AC-23B	AC-22B	
Rated switching voltage U _e		V	400	690	
Rated switching current I _e		А	160)	
Rated short circuit making	690 V	kA	80		
current	500 V		100)	
Rated short circuit withstand	690 V	kA	80		
current	500 V		100)	
Rated insulation voltage U_i		V	100	D	
Rated impulse withstand voltage $U_{\text{imp.}}$		kV	8		
Rated frequency		Hz	50-6	0	
IP degree of protection		-	30		
Fuse links size		-	00		



Table 2. Versions

Fuse switch disconne	Article No.			
For installation on 185	For installation on 185 mm busbar system; single-pole switching – 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 25-150SW	63-500750-602		
ARS 00-1-M evo	cable terminals: M8 screw terminals	63-500750-603		
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	63-500750-703		
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		

Table 3. ARS 00 evo terminal clamps

Description	ARS 00-M evo	ARS 00-V evo	ARS 00 evo
Clamp	M8 screw*	V-clamp 25-150 SW	S-bridge clamp 2 x M5 x 25
Picture of clamp			
Drawing of clamp			
Cross –section	Conductor with lug terminal	re \bullet 16 mm ² -95 mm ² se \bullet 25 mm ² -150 mm ²	4-70 mm ²
of conductors	max. 185 mm ²	rm 🛞 16 mm ² -95 mm ² sm 🐢 25 mm ² -150 mm ²	4-70 mm ²
Tightening torque	12 Nm**	20 Nm**	3 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

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retractable handle in the single-pole switching version

possibility to release the fuse link without touching it



special screw to connect cover with base



arc chamber with deionization plates over upper contacts

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



possibility to install a microswitch

terminal shroud integrated with cover



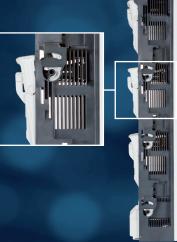
ARS 3-6-M evo three-pole switching

ARS 2-6-2V evo

three-pole switching

open position

parking position



ARS 2-1-V evo single-pole switching

closed position parking position open position

ARS 3-1-M evo single-pole switching

in the closed position there is possibility to retract the handle

Table 4. Technical data

Parameter		ARS 2 evo	ARS 3 evo		
Rated thermal current $I_{th} = I_n$	A	400 630		0	
Rated voltage U _e	V	690	690		
			single-pole switching	three-pole switching	
Utilization category			AC 21B/690 V/630 A		
Othization category		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 $U_{_{\!$	V	690	69	0	
Rated operational current ${\rm I_e}$	А	400	63	0	
Rated short circuit making current	kA	120 at 690 V	100 at 690 V		
		120 at 500 V 120 at 500 V		500 V	
Rated short circuit	kA	120 at 690 V 100 at 690 V			
withstand current		120 at 500 V	120 at 500 V		
Rated insulation voltage U _i	V	1000	1000 1000		
Rated impulse withstand voltage U _{imp}	kV	12	12		
Mechanical durability	Number	1000	1000		
Electrical durability	ofcycles	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		

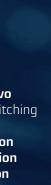


Table 5. Versions of ARS evo

Version		Article No.
Fuse switch disconnect	rors ARS 2 evo – 400 A	
For installation on 185 r	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 mm ²	63-500700-612
For installation on 185 r	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 mm ²	63-500700-712
Fuse switch disconnect	rors ARS evo 3 – 630 A	
For installation on 185 r	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 3-1-2V evo	cable terminals: 2V-terminals: double V-clamps 240 mm ²	63-500700-623
For installation on 185 r	nm 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 3-6-2V evo	cable terminals: 2V-terminals: double V-clamps 240 mm ²	63-500700-723

Table 6. Terminal clamps ARS evo

Description	ARS -V evo	ARS -2V evo		ARS - Mevo	
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 fixing of conductor with bare end with crosssection of				
Cross – section	35 - 240 mm ²	50 - 240 mm ²	50 - 240 mm ²	Lug terminal	
of conductors	35 - 300 mm ²	50 - 300 mm ²	50 - 300 mm ²	Luy terminar	
	🋞 35 - 185 mm²	🋞 50 - 185 mm²	🋞 50 - 185 mm ²		
	35 - 240 mm ²	50 - 240 mm ²	50 - 240 mm ²		
Tightening torque	30 Nm	30 Nm	40 Nm	32 Nm	

For stranded conductors using bare end of conductor/lug terminals is recommended *¹ 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 **³ 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.

Table 7. Accessories

Description	Article No.	Picture
Terminal shroud for top connection	51-500700-109	
NO - normally open microswitch	1115296318T	
NC - normally closed microswitch	1115296319T	NC

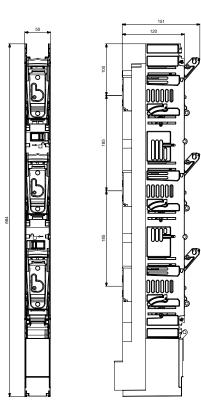
DIMENSIONS

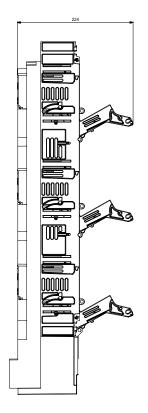
ARS 00-1 evo

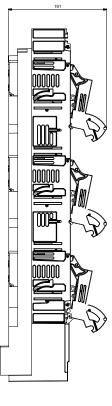
CLOSED POSITION

OPEN POSITION

PARKING POSITION

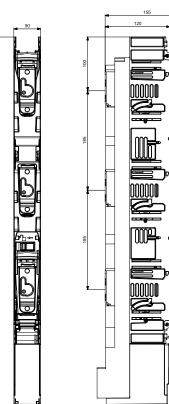


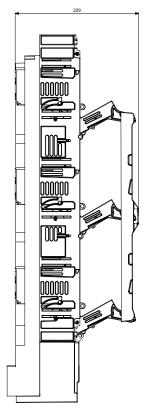




ARS 00-3 evo

CLOSED POSITION

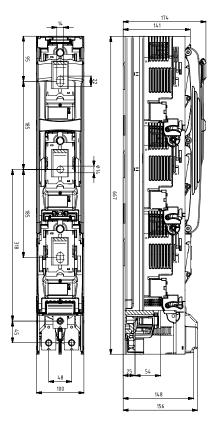


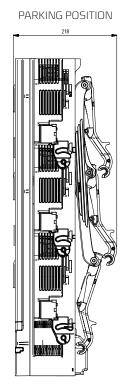


OPEN POSITION PARKING POSITION

ARS 2-6-M evo

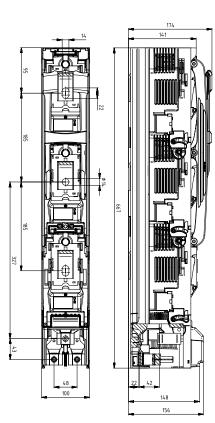
CLOSED POSITION



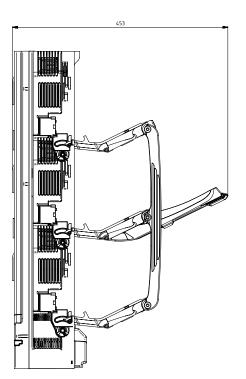


ARS 2-6-V evo

OPEN POSITION



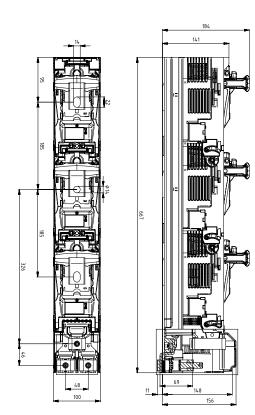
CLOSED POSITION



DIMENSIONS

ARS 3-1-2V evo

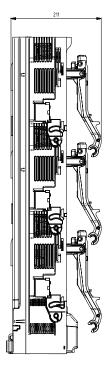
CLOSED POSITION



CLOSED POSITION

WITH RETRACABLE HANDLES

PARKING POSITION



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