



It's evolution - our new
switch disconnector
ARS evo

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



Safety

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



Functionality

- easy to install
- tilt opening type
- 2 versions of switching: 1-pole and 3-poles



Flexibility

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

Versions of ARS evo



ARS 2-1 evo



ARS 2-6 evo



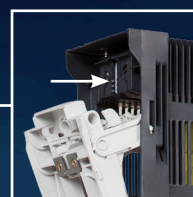
ARS 3-1 evo



ARS 3-6 evo

ARS evo

retractable handle
in the 1-pole switching version

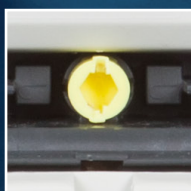


arc chamber
with deionization
plates over upper
contacts

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

possibility to release
the fuse link without touching it

special screw
to connect cover
with base



possibility
to install a
microswitch



terminal shroud
compatible with cover





ARS 2-1-V evo
one pole switching

close position
parking position
open position



ARS 3-1-M evo
one pole switching

in the close position
there is possibility
to retract the handle



ARS 2-6-2V evo
three pole switching

open position



ARS 3-6-M evo
three pole switching

parking position

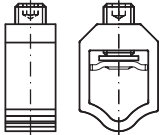
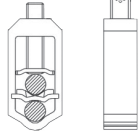
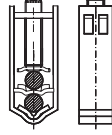

Table 1. Technical data

Parameter		ARS 2 evo	ARS 3 evo
Rated thermal current $I_{th}=I_n$	A	400	630
Rated voltage U_e	V	690	690
Utilization category I_e	A		1-pole switching
			3-pole switching
		AC 22B/690 V/400 A	AC 21B/690 V/630 A
		AC 23B/400 V/400 A	AC 22B/500 V/630 A
Rated switching voltage U_e	V	690	690
Rated switching current I_e	A	400	630
Rated short circuit making current	kA	120 at 690 V	100 at 690 V
		120 at 500 V	120 at 500 V
Rated short circuit withstand current	kA	120 at 690 V	100 at 690 V
		120 at 500 V	120 at 500 V
Rated insulation voltage U_i	V	1000	1000
Rated impulse withstand voltage U_{imp}	kV	12	12
Mechanical durability	Number of cycles	1000	1000
Electrical durability		200	200
IP degree of protection	-	30	30
Fuse link size	-	NH1, NH2	NH1, NH2, NH3
Max. power loss per fuse link	-	NH1 - 32 W, NH2 - 48 W	NH1 - 32 W, NH 2 - 48 W, NH3 - 60 W

Table 2. Versions of ARS evo

Version		Article No.
Fuse switch disconnectors ARS 2 evo – 400 A		
For installation on 185 mm busbar system; ONE POLE SWITCHING – each phase independently		
ARS 2-1-M evo	cable terminals: screw terminals: pressed nuts 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 mm busbar system; THREE POLE SWITCHING – all phases simultaneously		
ARS 2-6-M evo	cable terminals: screw terminals: pressed nuts M12	63-500700-711
ARS 2-6-V evo	cable terminals: V-terminals: V-clamps 240 mm ²	63-500700-712
Fuse switch disconnectors ARS evo 3 – 630 A		
For installation on 185 mm busbar system; ONE POLE SWITCHING – each phase independently		
ARS 3-1-M evo	cable terminals: screw terminals: pressed nuts 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 mm busbar system; THREE POLE SWITCHING – all phases simultaneously		
ARS 3-6-M evo	cable terminals: screw terminals: pressed nuts M12	63-500700-721
ARS 3-6-2V evo	cable terminals: 2V-terminals: double V-clamps 240 mm ²	63-500700-723

Table 3. Terminal clamps ARS evo

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				
Cross – section of conductors	V-clamp for direct fixing of conductor with bare end with crosssection of			Lug terminal
	● 35 - 240 mm ²	● 50 - 240 mm ²	● 50 - 240 mm ²	
	◐ 35 - 300 mm ²	◐ 50 - 300 mm ²	◐ 50 - 300 mm ²	
	◑ 35 - 185 mm ²	◑ 50 - 185 mm ²	◑ 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

*) 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.

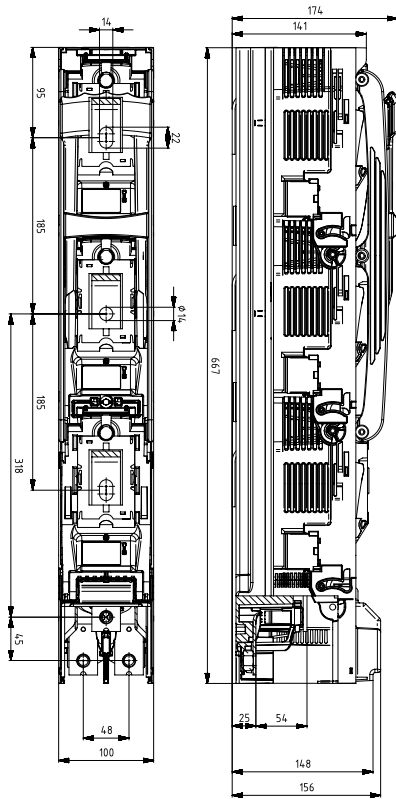
Table 4. Accessories

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

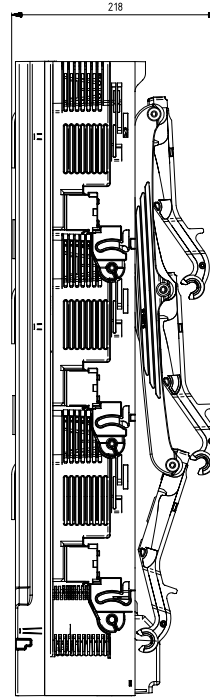
OVERALL DIMENSION

ARS 2-6-M evo

CLOSED POSITION

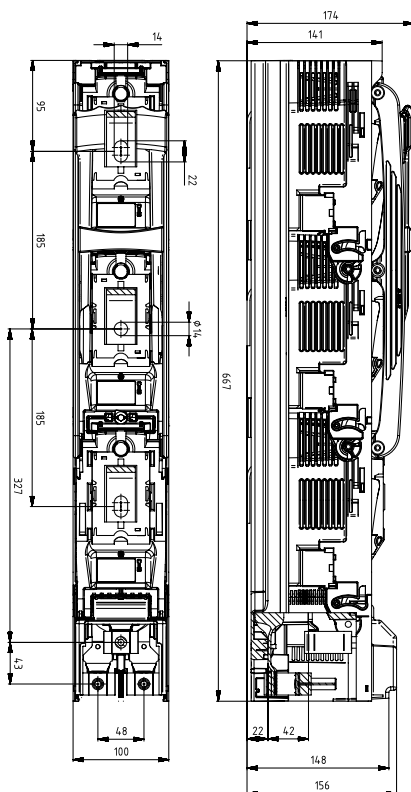


PARKING POSITION

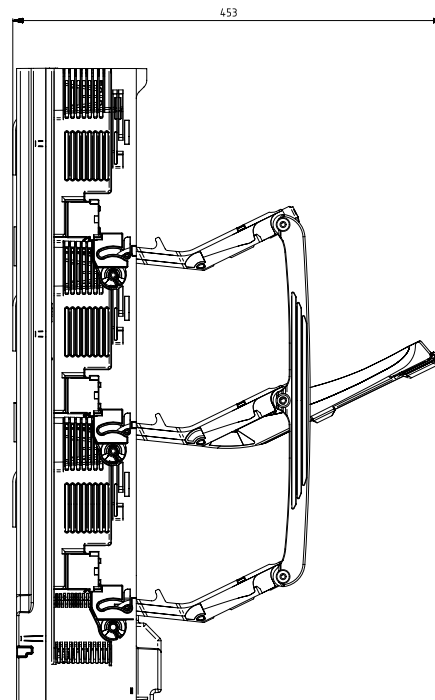


ARS 2-6-V evo

CLOSED POSITION

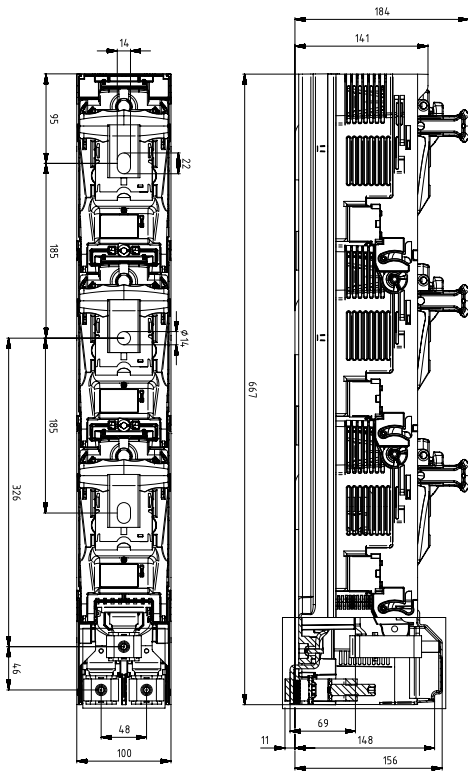


OPEN POSITION

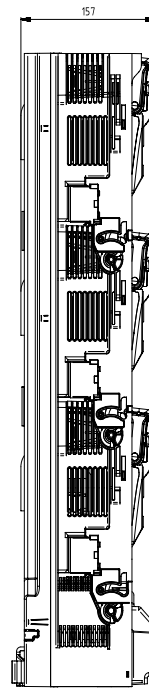


ARS 3-1-2V evo

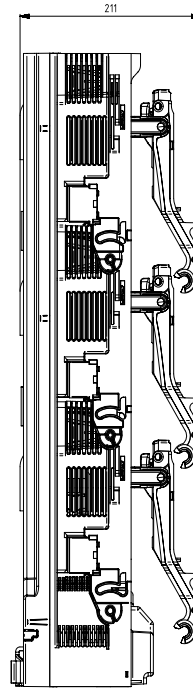
CLOSED POSITION



CLOSED POSITION
WITH RETRACABLE HANDLES



PARKING POSITION



KEY ACCOUNT MANAGER

Rafał Kamiński (English, Russian) Central Europe, South East Europe	rafal.kaminski@apator.com	+48 506 009 338
Michael Roclawski (German, English) Germany, Austria, Switzerland	michael.roclawski@apator.com	+48 506 009 339
Krzysztof Zdrojewski (English) Middle East, South America, Asia, Africa	krzysztof.zdrojewski@apator.com	+48 506 009 309
Jevgenijus Samuchovas (Lithuanian, Russian) Eastern Europe, Baltic Countries	jevgenijus.samuchovas@apator.com	+370 62 842709
Josef Kalleder (Romanian, English) Romania, Rep. of Moldova	josef.kalleder@apator.com	+40 74 5267192

TECHNICAL SUPPORT

Business Development Manager

Łukasz Melkowski (English)	lukasz.melkowski@apator.com	+48 506 009 334
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Product Marketing Manager

Jakub Szczepkowski (English)	jakub.szczepkowski@apator.com	+48 506 009 395
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APATOR SA

ul. Gdańska 4a, lok C4, 87-100 Toruń, Poland

Correspondence address:

Apator S.A. Centrum

Ostaszewo 57C, 87-148 Łysomice, Poland

e-mail trade@apator.com

head office tel. +48 56 61 91 494, +48 56 61 91 316, fax +48 56 61 91 295