



# smartARS pro-PV

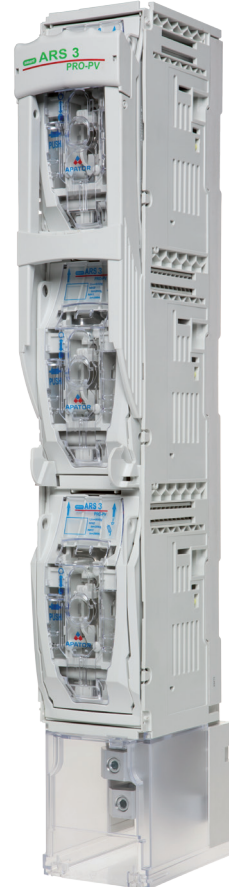
NH fuse switch disconnectors



smartARS 00  
pro-PV



smartARS 2  
pro-PV



smartARS 3  
pro-PV

## New smartARS pro-PV AC 800 V

### A safe step into the future with Apator

The new switch fuse disconnecter smartARS in the AC800V product line is a device which has been developed to meet the needs and requirements of the future.

Solar power systems and a new generation of inverters are assembled on AC800V correctly and safely under load. In the future AC800V will be extended by the smartARS family; moreover, it can be modified to facilitate the digitization of the energy transition.

High-quality materials and years of experience of APATOR Group in the NH disconnectors sector ensure excellent cost-benefit ratio.

Table 1. Technical data

Parameter			smartARS 00 pro-PV	smartARS 2 pro-PV	smartARS 3 pro-PV
For NH fuse-links acc. to DIN VDE 0636-2		Size	00	1,2	3
Rated operational voltage	$U_e$	V	AC800	AC800	AC800
Rated operational current	$I_e$	A	80	200	400
Conv. free air thermal current with fuse-links	$I_{th}$	A	80	200	400
Rated frequency	f	Hz	50 - 60	50 - 60	50 - 60
Rated insulation voltage	$U_i$	V	AC1000	AC1000	AC1000
Rated impulse withstand voltage	$U_{imp}$	kV	8	12	12
Utilization category			AC21B 80A/ 800V	AC21B 200A/800V	AC21B 400A/ 800V
Fuse protected short circuit withstand		kA	100 <sup>1)</sup>	120 <sup>1)</sup>	120 <sup>1)</sup>
Fuse protected short circuit making		kA	100 <sup>1)</sup>	120 <sup>1)</sup>	120 <sup>1)</sup>
Max. permis. power loss per fuse-link	$P_a$	W	11	21	41
Pollution degree			3	3	3

<sup>1)</sup> with WTNH gG fuse links (500 V)

**Table 2. Versions**

Version		Weight	Article No.
<b>for installation on to 185 mm busbar system, three pole switching - all phases simultaneously</b>			
smartARS 00-3 pro-PV	cable terminals: bridge terminals with bridge clamps (5) 4-70mm <sup>2</sup> , screw terminals with M8 screws	2,5 kg	63-073821-001
smartARS 00-3-V pro-PV	cable terminals: V-terminals with V-clamps 25-150 SW	2,6 kg	63-073821-002
smartARS 2-6-V pro-PV	cable terminals: V-terminals with V-clamps 240 mm <sup>2</sup>	5,8 kg	63-073822-001
smartARS 3-6-V pro-PV	cable terminals: V-terminals with V-clamps 240 mm <sup>2</sup>	6,6 kg	63-073822-002
smartARS 2-6-M pro-PV	cable terminals: screw terminals with pressed nuts M12	5,7 kg	63-073822-003
smartARS 3-6-M pro-PV	cable terminals: screw terminals with pressed nuts M12	6,5 kg	63-073822-004
smartARS 2-6-2V pro-PV	cable terminals: 2V-terminals with double V-clamps 240 mm <sup>2</sup>	6,4 kg	63-073822-005
smartARS 3-6-2V pro-PV	cable terminals: 2V-terminals with double V-clamps 240 mm <sup>2</sup>	7,2 kg	63-073822-006

## APATOR recommends SIBA NH fuses for best protection of the new generation of PV String Inverters

The new series of SIBA NH fuses with operating class: gRL/gS has been developed for the line protection of the new PV String Inverters.

Due to the use of special geometries of melting elements, in comparison to the conventional line protection fuses (operating class: gG) a considerably faster operation at short circuits and thus optimum protection of the inverters has been realized. In the space-saving NH standard designs, the fuse links achieve a maximum breaking capacity of 120 kA with a test voltage of 880 V. The power losses of series NH1, NH2 and NH3 have been designed for the respective maximum power acceptance of the corresponding NH fuse bases.



SIBA article numbers:

20 309 34.80 NH00 AC 800V 80A 120 kA

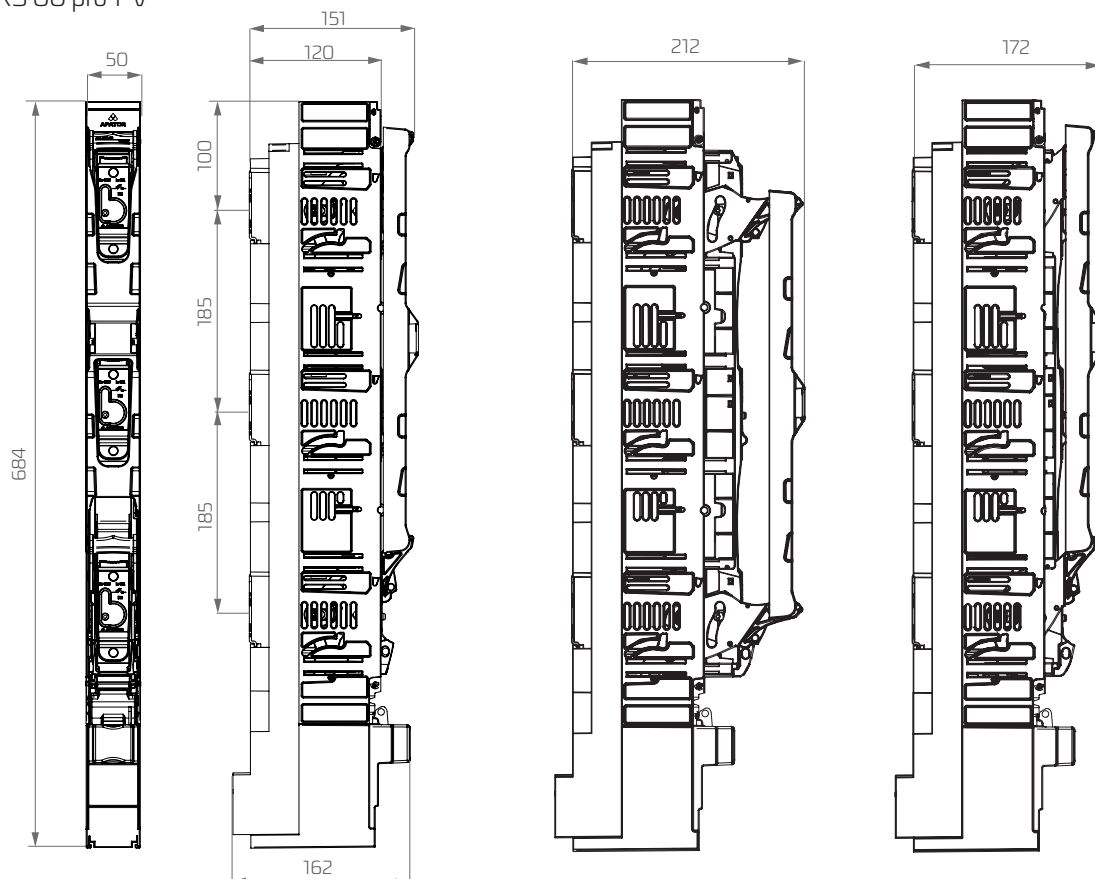
20 311 34.Strom NH1 AC 800V 100 – 200A 120 kA

20 312 34.Strom NH2 AC 800V 160 – 250A 120 kA

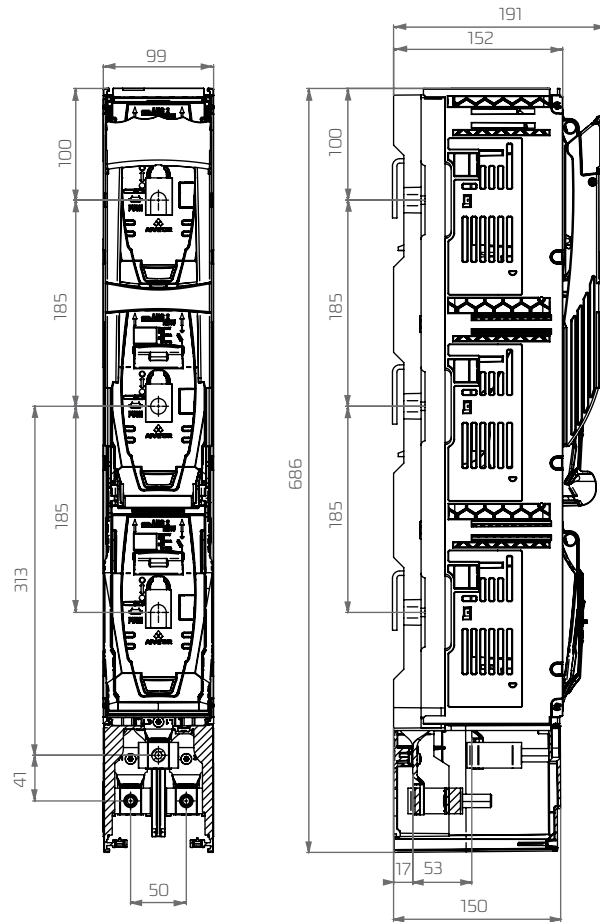
20 313 34.Strom NH3 AC 800V 200 – 400A 120 kA

## DIMENSIONS

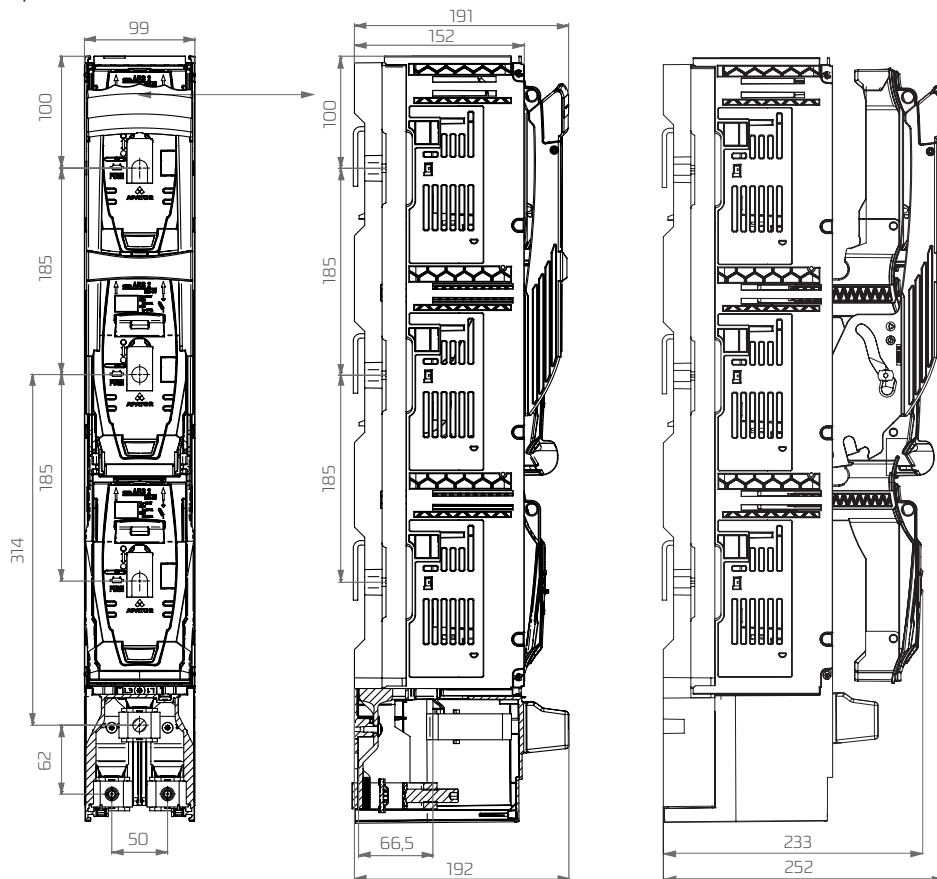
smartARS 00 pro-PV



smartARS 2,3 -M,-V pro-PV



smartARS 2,3 -2V pro-PV





## NOTES

the publication is only for information purposes  
and it is not the offer in understanding of the law

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