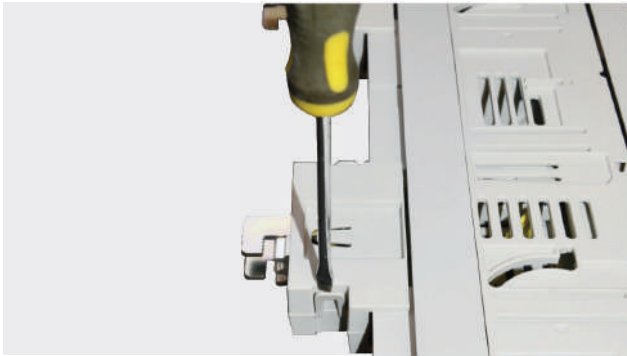


smartARS pro disconnectors

on IP20 busbar

Hook adapter for assembling smartARS pro disconnectors on IP20 busbar

smartARS 00 pro disconnectors enable changing the drain direction from the top as in the user manual.



smartARS 2,3 pro disconnectors can be used with a hook adapter for assembling disconnectors on IP20 busbar. To change the drain direction from the top, rotate the hook and plate by 180° as in the user manual.

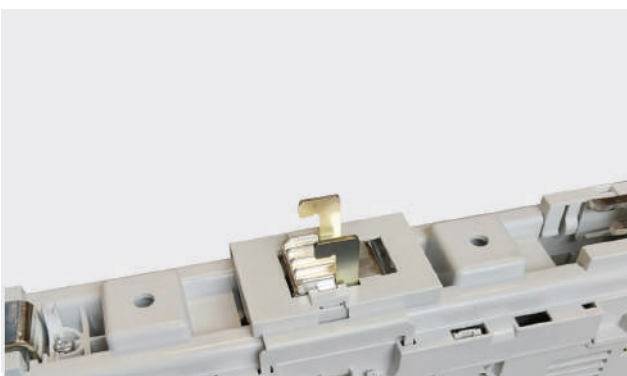


Table 22. Versions

Label	Description	Catalogue number
smartARS 00-1-V-W-H pro	cable terminal: V-terminals: V-clamp 25-150 SW	63-106562-011
smartARS 00-1-W-H pro	cable terminal: bridge clamps (S) 4-70 mm and M8-screw	63-106562-012
smartARS 00-3-V-W-H pro	cable terminal: V-terminals: V-clamp 25-150 SW	63-106562-021
smartARS 00-3-W-H pro	cable terminal: bridge clamps (S) 4-70 mm and M8-screw	63-106562-022
smartARS 2-1-V-H pro	cable terminal: V-terminals: V-clamp 240 mm ²	63-106562-211
smartARS 2-1-M-H pro	cable terminals: pressed nuts M12	63-106562-213
smartARS 2-1-2V-H pro	cable terminals: 2V-terminals: double V-clampos 240 mm ²	63-106562-215
smartARS 2-6-M-H pro	cable terminals: pressed nuts M12	63-106562-223
smartARS 2-6-2V-H pro	cable terminals: 2V-terminals: double V-clampos 240mm ²	63-106562-225
smartARS 3-1-V-H pro	cable terminal: V-terminals: V-clamp 240 mm ²	63-106562-312
smartARS 3-1-M-H pro	cable terminals: pressed nuts M12	63-106562-314
smartARS 3-1-2V-H pro	cable terminals: 2V-terminals: double V-clampos 240 mm ²	63-106562-316
smartARS 3-6-V-H pro	cable terminal: V-terminals: V-clamp 240 mm ²	63-106562-322
smartARS 3-6-M-H pro	cable terminals: pressed nuts M12	63-106562-324
smartARS 3-6-2V-H pro	cable terminals: 2V-terminals: double V-clampos 240 mm ²	63-106562-326

Table 23. Technical data

Parameter		smartARS 00 pro		smartARS 2 pro		smartARS 3 pro		
		AC-22B	AC-23B	AC-22B	AC-23B	AC-23B	AC-22B	AC-21B
Rated thermal current $I_{th}=I_n$	A	160		250 (NH1), 400 (NH2)		630		
Rated thermal current $I_{th}=I_n$ with solid links	A	210		600		750		
Rated voltage U_n	V	690		690		690		
Utilization category	-	690	400	AC-22B	AC-23B	AC-23B	AC-22B	AC-21B
Rated switching voltage U_e	V	690		690	400	400	500	690
Rated switching current I_e	A	160		250 (NH1), 400 (NH2)		630		
Rated short circuit making current	690 V	80		100		80		
	500 V	kA		100		120		120
Rated short circuit withstand current	690 V	80		100		100		
	500 V	kA		100		120		100
Rated insulation voltage U_i	V	1000		1000		1000		
Rated impulse withstand voltage U_{imp}	kV	12		12		12		
Rated frequency	Hz	50-60		50-60		50-60		
Mechanical durability	Number of cycles	1600		1000		1000		
Electrical durability	Number of cycles	200		200		200		
IP degree of protection	-	30		30		30		
Fuse links size	-	00		1, 2		3		

Table 24. smartARS 00 pro terminal clamps

Description	smartARS 00 pro			
Clamp	5-bridge clamp 2 x M5 x 25	M8 screw*	V-clamp 25-150 SW	HM 10-120
Picture of clamp				
Drawing of clamp				
Cross –section of conductors	4 - 70 mm ²	Lug terminal max 185 mm ²	re ● 16 mm ² - 95 mm ²	re ● 10 mm ² - 70 mm ²
			se ◆ 25 mm ² - 150 mm ²	se ◆ 25 mm ² - 120 mm ²
			rm ⊗ 16 mm ² - 95 mm ²	rm ⊗ 10 mm ² - 70 mm ²
			sm ⊕ 25 mm ² - 150 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.

Table 25. smartARS 2,3 pro terminal clamps

Description	smartARS 2-x-V pro smartARS 3-x-V pro	smartARS 2-x-2V pro smartARS 3-x-2V pro	smartARS 2-x-2V pro smartARS 3-x-2V pro	smartARS 2-x-M pro smartARS 3-x-M pro
Clamp	V-clamp 35-300SW-B	V-clamp 2/50-300SW-B	V-clamp HS 2/50-240-C*	M-screw M12**
Picture of clamp				
Cross –section of conductors	V-clamp for direct fixing of conductor with bare end with crossection of			
	35 - 185 mm ² ⊗	35 - 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 ◆
Tightening torque	30 Nm	30 Nm	40 Nm	56 Nm

For stranded conductors using cable ferrules 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 – 56 Nm.

Table 26. Accessories

Label	Description	Catalogue number
Hook adapter	Hook adapter for smartARS 2,3 pro disconnectors for assembling the disconnector on IP20 busbar	53-106562-180