

RBK pro Fuse switch disconnectors

designed for distribution of electricity and protection of electrical equipment against short-circuits and overloads with industrial fuse links.







APPLICATIONS

RBK fuse switch disconnectors are designed for distribution of electricity and protection of electrical equipment against short-circuits and overloads with industrial fuse links. They are conforming to EN 60947-1, EN 60947-3, IEC 60947-1, IEC 60947-3 standards. They are intended for installation in low voltage distribution boards, cable and metering cabinets.

CONSTRUCTION

- thermoplastic parts of RBK fuse switch disconnectors are made of fibre glass strengthened polyamide with halogen free flame retardant added and have highest possible flammability class V0,
- RBK fuse switch disconnectors consist of following parts:
 - three pole main base with spring-loaded contacts designed for connection of circular or sector-shaped conductors, conductors with lug terminals or bars,
 - removable cover with fuse links,
- arc chutes with steel deionization plates over top contacts,
- silver plated contacts providing low power loss.

MOUNTING

- on mounting plate
 - RBK 00 pro, RBK 1 pro, RBK 2 pro, RBK 3,
- on double DIN rail
 - RBK 00 pro,
- on to busbar systems:
 - 60 mm busbar system,
 - RBK 00 pro-S, RBK 1pro-S, RBK 2pro-S installation on to bysbar system with hooked clamps,
 - 100 mm busbar system,
 - RBK 2-S, RBK 1 pro-S installation on to bus bar system with hooked clamps.

OPERATING CONDITIONS

- to be installed in the room free of any dust, aggressive or explosive gases,
- altitude up to 2000 meters above sea level,
- outdoor in cabinets with protection degree > IP 34,
- ambient temperature from -25 °C to +55 °C,
- relative humidity of the air should not be higher than 50% at temperature of +40°.

FUNCTIONALITY:

- making and breaking operations should be done with determined movement,
- possible connection of circular or sector-shaped conductors with bare ends (V-terminals, 2V-terminals) or conductors with lug terminals (screw terminals),
- voltage test performed through test holes in fuse link cover,
- fuse links state monitoring.

CONFORMITY WITH STANDARDS

EN 60947-1, EN 60947-3, IEC 60947-1, IEC 60947-3

Table 72. RBK FUSE SWITCH DISCONNECTORS TECHNICAL DATA

Parameters						K 000 (000 p	10 0			P 000 p	100	RBK 00 pro RBK 00 pro-S		RBK 00 pro-V 120		RB pı		RBK 1 pro-S			RBK 2 pro RBK 2 pro-S				
Rated thermal current I _{th} A		А	160			125			160		160		250			250		400							
Rated voltage U _n V		٧	690			690			690			690		69	90		690		690						
Utilization catego	iry		-	AC -23B	AC -22B	AC -22B	AC -21B	DC -21B	AC -22B	AC -23B	DC -21B	AC -23B	DC -21B	DC -22B	AC -23B	AC -22B	DC -22B	AC -23B	DC -22B	AC -23B	AC -22B	DC -22B ²	AC -23B	DC -21B	DC -22B
Rated switching	current	l _e	А	100	100	160	160	160	125	125	125	160	160	160	160	160	160	250	250	250	250	250	400	400	400
Rated switching	oltage	U _e	٧	400	690	400	690	250	690	400	440	690	440	250	400	690	250	690	250	400	690	250	690	440	220
Rated short circu withstand curren	10	90 V	kΑ		1(00		15	80 100	2	0	80 100	2	20	10	00	20	80 100	25	<u> </u>	0	25	80	15	20
	690 V				2	5			80			80						80		8	0			80	
Rated short circu making current	40	00 V	kΑ		80 1		15	100	2	0	100	2	20	10	00	20	100	25	1(00	25		100		
Rated insulation	voltage	U _i	V	1000		1000			1000			1000		10	00		1000			1000					
Rated impulse wi voltage U _{imp.}	thstand	ı	kV	8		6		8			8		8	8		8			12						
Rated frequency			Hz		50	-60		-	50-	-60	-	50-60		-	50-	-60	-	50-60	-	50	-60	-	50-60		
Mechanical durability	Num	nber				2000			1600		1600		1600		1600		1600		1000						
Electrical of cycles durability					300			200		200		200			200		200			200					
IP degree of prote	ection		ΙP			20				30			20			20		3	0		30			20	
Weight			kg			~0,6 ~0,9				~0,5 ~0,7			~0,7 ~0,90)		~0,9		~	-2		~2,5			~3 ~4,50)
Size of fuse links			-			000				000			00			00		-	1		1			2	

Parameters					RBK 3 pro			RBK 3 pro-S			
Rated thermal current I _{th} 1)			А		630			630			
Rated voltage Un			V	690			690				
Utilization category	Utilization category			AC-23B	AC-22B	DC-21B	AC-23B	AC-22B	AC-21B		
Rated switching current I _e			А	630	630	630	630	630	630		
Rated switching voltage U _e	Rated switching voltage U _a			400	690	440	400	500	690		
Rated short circuit		690 V	kA		80			80			
withstand current	withstand current 500 V		KA		120		120				
Rated short circuit		690 V	kA	80			80				
making current		500 V	10 (120		120				
Rated insulation voltage $U_{_{i}}$			V	1000			1000				
Rated impulse withstand volta	age U _{imp.}		kV	12			12				
Rated frequency			Hz	50	-60	50-60	50-60				
Mechanical durability	Numbe	r			1000		1000				
Electrical durability	of cycles				200			200			
IP degree of protection		IP		IP 20		IP 20					
Weight			kg		~5		~5,9				
Size of fuse links			-		3		3				

 $^{^{1)}}$ I_{th} - thermal current of fuse switch disconnector without external enclosure, installed outdoors (In case of the installation of fuse switch disconnectors in enclosures then load factor should be considered)

RBK 2 switch disconnector with solid links 400 A rated short-time withstand current 1s $\rm I_{cw}=13~kA$ rated short-circuit making capacity $\rm I_{cm}=8~kA$ RBK 1000 - (RBK 3 switch disconnector with solid links 1000 A) rated short-time withstand current 1s $\rm I_{cw}=12,6~kA$ rated short-circuit making capacity $\rm I_{cm}=25,2~kA$ rated thermal current $\rm I_{th}=1000~A$ when connected on to busbars 50x10 mm utilization category AC-21



²⁾ for 60 mm busbar system



RBK 000 pro (160 A, 690 V)

Table 73. TECHNICAL DATA

Parameters			RBK 000 pro / RBK 000 pro-S							
Rated thermal current	$I_{th} = I_n$	А			160					
Rated voltage Un		V	690							
Utilization category		-	AC-23B AC-22B AC-21B DC-							
Rated switching voltage	e U _e	V	400	690	400	690	250			
Rated switching curren	t I _e	А	100	100 100 160 160						
Rated short circuit	690 V				25					
making current	500 V 400V	kA			80					
Rated short circuit with current	stand	kΑ	100							
Rated insulation voltage	e U _i	V			1000					
Rated impulse withstar voltage U _{imp}	nd	kV	8							
Rated power dissipation	٦	W	12							
Rated frequency		Hz		50	-60		-			
Mechanical durability	Num				2000					
Electrical durability	Electrical durability of cyc				300					
IP degree of protection			IP 20							
Size of fuse links		000								
Accesories on page 121			1							



for installation on mounting plate

Table 74. VERSIONS

RBK 000/160 A		Cable terminal	Article No.
For installation on i	mounting plate		
RBK 000 pro	for connection of round conductors	S-bridge clamps	63-823191-011
RBK 000 pro-E	for connection of round conductors, possible installation on DIN rail	S-bridge clamps	63-823191-051
RBK 000 pro-M	for connection of round conductors with lug terminals	M8 screws	63-823191-021
RBK 000 pro-M-E	for connection of round conductors with lug terminals, possible installation on DIN rail	M8 screws	63-823191-061
RBK 000 pro-W	for connection of round conductors, lenghtened terminal shrouds	S-bridge clamps	63-823191-071
RBK 000 pro-W-M	for connection of round conductors with lug terminals, lenghtened terminal shrouds	M8 screws	63-823191-081
For installation on to	o 60 mm busbar system		
RBK 000 pro-SD	Cable terminal – bottom, for connection of round conductors	S-bridge clamps	63-823234-031
RBK 000 pro-SG	Cable terminal – top, for connection of round conductors	S-bridge clamps	63-823234-011
RBK 000 pro-SD-M	Cable terminal – bottom, for connection of conductors with lug terminals	M8 screws	63-823234-041
RBK 000 pro-SG-M	Cable terminal – top, for connection of conductors with lug terminals	M8 screws	63-823234-021

Table 75. RBK 000 TERMINAL CLAMPS

Description	Clamp	Drawing of clamp	Cross-section of conductors	Cu bar	Tightening torque	Dimensions and spacing of holes for installation of RBK 000 on mounting plate
DDI/ 000	S-bridge clamp 2 x M5 x 16		Cu/Al conductor 1,5 ÷ 35 mm ²	maximum bar	3 Nm*	
RBK 000 pro	M8 x 16 screw		conductor with lug terminal up to 70 mm ²	width 15 mm	10 Nm*	50

For stranded conductors using cable ferrules is recommended

^{*}using of tension wrench is recommended



RBK 000 pro-E for mounting on DIN rail



RBK 000 pro-O for installation on mounting plate with additional terminal shrouds



for installation on mounting plate with extended terminal shrouds



RBK 000 pro-SG (top cable terminals) RBK 000 pro-SD (bottom cable terminals) for installation on to 60 mm busbar system





RBP 000 pro (125 A, 690 V) for mounting

- on plate
- on double DIN rail

RBP 000 pro-S (125 A, 690 V) for installation onto 60 mm busbar system

- system of protective covers provides touch protection
- possible installation of distribution board's protective panel at depth of 32 mm or 70 mm
- built-in hooked clamps provide fast installation onto busbar system
- top/bottom cable terminal

Table 76. TECHNICAL DATA

		RBP	000 pro, I	RBP 000	pro-S				
	А		12	25					
	V		690						
	-	AC-21B*	AC-22B**	AC-23B	DC-22B				
Rated switching voltage U _e				400	250				
Rated switching current I _e				125	100				
690 V			50*/35**						
500 V	LΛ		20						
400 V	r/A		80						
690 V	kΛ								
500 V	10-1		20						
400 V									
	V	1000							
	kV		6						
	W		Q	9					
	Hz		50-60		-				
	с.р		1600						
Electrical durability			200						
		IP 30							
			00	00					
	500 V 400 V 690 V 500 V	V	A V 690 A 125 690 V 600	A 12 V 690 690 A 125 125 690 V 50*/35** 500 V	V 690 - AC-21B* AC-22B** AC-23B V 690 690 400 A 125 125 125 690 V 500 V 400 V NA 80 690 V 500 V 400 V V 1000 kV 6 W 9 Hz 50-60 c.p 1600 - AC-21B* AC-22B** AC-23B 80 400 V 500 V 1000 - AC-21B* AC-22B** AC-23B - AC-21B* AC-22B** AC-22B** AC-23B - AC-21B* AC-22B** AC-23B - AC-21B* AC-22B** AC-22B** AC-23B - AC-21B* AC-22B** AC-22B** AC-23B - AC-21B** AC-22B** AC-				



RBP 000 pro-S

*- RBP 000 pro, **- RBP 000 pro-S

Table 77. VERSIONS

RBP 000 pro		Cable terminal	Article No.			
For mounting on plate						
RBP 000 pro	for connection of round conductors	frame clamps	63-823267-001			
for mounting on double DIN rail						
RBP 00 pro-E-125 mm	double DIN rail with spacing of 125 mm	frame clamps	63-823267-002			
RBP 000 pro-E-150 mm	double DIN rail with spacing of 150 mm	frame clamps	63-823267-003			
RBK 000 pro-S						
For installation on to 60	mm busbar system					
RBP 000 pro-SG	cable terminal-top, for connection of conductors with bare ends	frame clamps	63-823427-001			
RBP 000 pro-SD	cable terminal-bottom, for connection of conductors with bare ends	frame clamps	63-823427-002			

Table 78. RBP 000 pro, RBP 000 pro-S TERMINAL CLAMPS

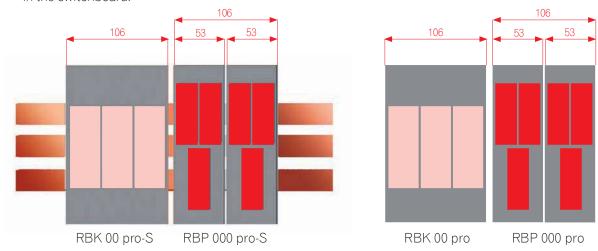
Descrition	Cable terminal	Drawing of clamp	Cross-section of conductors	Tightening torque
RBP 000 pro RBP 000 pro-S	frame clamps		2,5 - 50 mm²	◆ 6 Nm* 3 Nm*

For stranded conductors using cable ferrules is recommended

^{*}using of tension wrench is recommended

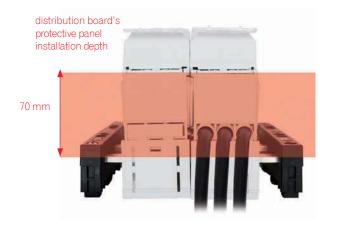
Saves space in the switchboard

RBP 000 pro-S (RBP 000 pro) width dimensions is equal to half the width of RBK 00 pro-S (RBK 00 pro), so we can install more disconnectors (keeping a certain width of the switchboard) to protect individual circuits in the switchboard.

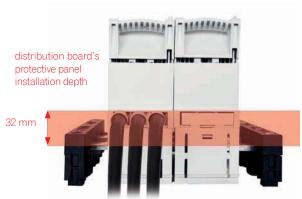


Fuse switch disconnectors RBP 000 pro-S are designed for installation of distribution board's protective panels at two depths:

covering system at 70 mm depth



covering system at 32 mm depth



Fuse switch disconnectors RBP 000 pro-S are manufactured in two versions depending on type of cable terminal

RBP 000 pro-SD-with bottom cable terminal RBP 000 pro-SG-with top cable terminal



with cables connected to the top cable terminal RBP 000 pro -SG

with cables connected to the bottom cable terminal RBP 000 pro- SD



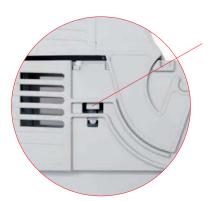


Fuse switch disconnector RBP 000 pro-S has special cavity in it's main base encasing busbar system's support.



Cavity for busbar system's support

It is possible to install microswitch indicating position open/close fuse switch disconnectors.



hole for leading of wires connected to microswitch





Fuse switch disconnector RBP 000 pro - E 125 mm for mounting on double DIN rail



RBP 000 pro mounting on plate

RBK 00 pro (160 A, 690 V)

Table 79. TECHNICAL DATA

Parameters			F	RBK 00 pr	0		
Rated thermal current I _{th}		А		160			
Rated voltage U		V	690				
Utilization category	-	AC-23B	DC-22B	DC-21B			
Rated switching voltage U	Rated switching voltage U			250	440		
Rated switching current I		А	160	160	160		
Rated short circuit	690 V	kΑ	80		· · · · · · · · · · · · · · · · · · ·		
making current	making current 400 V		100	20			
Rated short circuit	Rated short circuit 690 V			20			
withstand current	400 V	ł kA	100	20			
Rated insulation voltage U		V	1000				
Rated impulse withstand volta	age U _{imp}	kV	8				
Rated power dissipation		W		12			
Rated frequency		Hz	50-60		-		
Mechanical durability		Number		1600			
Electrical durability		of cycles		200			
IP degree of protection		IP 20					
Size of fuse links			00				
Accesories on page 122							



RBK 00 pro

Table 80. VERSIONS

RBK 00 pro/160 A		Cable terminal	Article No.
For installation on mo	unting plate		
RBK 00 pro	for connection of round conductors	S-bridge clamps	63-823256-011
RBK 00 pro-M	for connection of conductors with lug terminals	M8 screws	63-823256-021
RBK 00 pro-V	for connection of sector-shaped conductors	V-shape clamps	63-823256-031
RBK 00 pro-W	for connection of round conductors, lenghtened terminal shrouds	S-bridge clamps	63-823256-041
RBK 00 pro-M-W	for connection of conductors with lug terminals, lenghtened terminal shrouds	M8 screws	63-823256-051
RBK 00 pro-V-W	for connection of sector-shaped conductors, lenghtened terminal shrouds	V-shape clamps	63-823256-061
for mounting on doub	le DIN rail		
RBK 00 pro-E-125mm	double DIN rail with spacing of 125 mm	S-bridge clamps/ M8 screws/ V-shape clamps	On request*
RBK 00 pro-E-150mm	double DIN rail with spacing of 150 mm	S-bridge clamps/ M8 screws/ V-shape clamps	On request*





Table 81. RBK 00 pro TERMINAL CLAMPS

Descrition	Clamp	Drawing of clamp	Cross-section of conductors	Cu bar	Tightening torque	Dimensions and spacing of holes for installation of RBK 00 on mounting plate
	S-bridge clamp 2 x M5 x 16		Cu/Al conductor 4÷50 mm²		3 Nm*	5 70
RBK 00 pro	M8 x 16 screw		conductor with lug terminal up to 70 mm²	maxi- mum bar width	10 Nm*	
	V-shape clamp 2 x M5 x 20		2) \$\iiint 4 \text{ mm}^2 - 70 \text{ mm}^2\$ \$\begin{array}{c} 4 \text{ mm}^2 - 95 \text{ mm}^2 \end{array}\$ 1) \$\begin{array}{c} \omega 1,5 \text{ mm}^2 - 2,5 \text{ mm}^2 \end{array}\$	20 mm	3 Nm*	66 3

For stranded conductors using cable ferrules is recommended *using of tension wrench is recommended





Fuse switch disconnector RBK 00 pro with additional terminal shrouds



Fuse switch disconnector RBK 00 pro for mounting on double DIN rail

FUSE SWITCH DISCONNECTORS FOR INSTALLATION ONTO 60 mm BUSBAR SYSTEM RBK 00 pro-S

- system of protective covers provides touch protection
- possible installation of distribution board's protective panel at depth of 32 mm or 70 mm
- built-in hooked clamps provide fast installation onto busbar system
- top/bottom cable terminal

Table 82. TECHNICAL DATA

Parameter		R	BK 00 pro	-S		
Rated thermal current I _{th}	А		160			
Rated voltage U _n	V		690			
Utilization category	-	AC-23B	AC-22B	DC-22B		
Rated switching voltage U _e	V	400 690 25				
Rated switching current I _e	А	160	160	160		
Rated short circuit making current	kΑ	10	20			
Rated short circuit withstand current	kΑ	10	20			
Rated insulation voltage U _i	V		1000			
Rated impulse withstand voltage U _{imp}	kV		8			
Rated power dissipation	W		12			
Rated frequency	Hz	50	-60	-		
Mechanical durability	Number		1600			
Electrical durability	of cycles		200			
IP degree of protection	IP 20					
Size of fuse links			00			



RBK 00 pro-S

Table 83. VERSIONS

RBK 00 pro-S	Cable terminal	Article No.	
For installation on	to 60 mm busbar system		
RBK 00 pro-SG-M	cable terminal – top, for connection of conductors with lug terminals	M8 screws	63-823259-121
RBK 00 pro-SD-M	cable terminal – bottom, for connection of conductors with lug terminals	M8 screws	63-823259-141
RBK 00 pro-SG-R	cable terminal-top, for connection of conductors with bare ends	frame clamps	63-823259-151
RBK 00 pro-SD-R	cable terminal-bottom, for connection of conductors with bare ends	frame clamps	63-823259-161

Table 84. RBK 00 pro-S TERMINAL CLAMPS

Descrition	Clamp	Drawing of clamp	Cross-section of conductors	Cu bar	Tightening torque
RBK 00 pro-SGM RBK 00 pro-SDM	M8 x 16 screw		conductor with lug terminal up to 70 mm²	maximum bar width 20 mm	10 Nm*
RBK 00 pro-SGR RBK 00 pro-SDR	frame clamps		4 ÷ 95 mm²	-	○ 6 Nm* 3 Nm*

For stranded conductors using cable ferrules is recommended



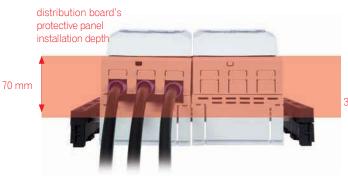
^{*}using of tension wrench is recommended

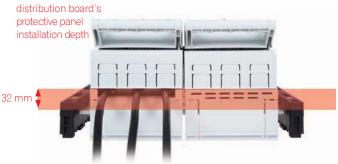


Fuse switch disconnectors RBK 00pro-S are designed for installation of distribution board's protective panels at two depths:

covering system at 70 mm depth

covering system at 32 mm depth





Fuse switch disconnectors RBK 00 pro-S are manufactured in two versions depending on type of cable terminal RBK 00 pro-SD-with bottom cable terminal RBK 00 pro-SG-with top cable terminal



Fuse switch disconnector RBK 00 pro-S has special cavity in it's main base encasing busbar system's support.





Cable terminals:

M8 screw terminal (RBK 00 pro-SDM, RBK 00 pro-SGM)



Frame clamp (RBK 00 pro-SDR, RBK 00 pro-SGR)



It is possible to install microswitch indicating position in fuse switch disconnectors RBK 00 pro-S



hole for leading of wires connected to microswitch







RBK 00 pro-V120 (160 A, 690 V)

Table 85. TECHNICAL DATA

Parameters	Parameters			/120	
Rated thermal current I _{th}	А		160		
Rated voltage U _n	V		690		
Utilization category	-	AC-23B	AC-22B	DC-22B	
Rated switching voltage U _e	V	400	690	250	
Rated switching current I _e	А	160	160	160	
Rated short circuit making current	kΑ	100		20	
Rated short circuit withstand current	kA	100 20		20	
Rated insulation voltage U _i	V	1000			
Rated impulse withstand voltage U _{imp}	kV	8			
Rated power dissipation	W	12			
Rated frequency	Hz	50-60		-	
Mechanical durability	Number	1600			
Electrical durability of cyc		200			
IP degree of protection			IP 20		
Size of fuse links			00		
Accesories on page 122					



RBK 00 pro-V120

Table 86. VERSIONS

RBK 00 pro-V120		Article No.
For installation on mount	ing plate	
RBK 00 pro-V120	for connection of conductors with bare ends (top terminals- S-bridge clamps, bottom terminals – V-clamps)	63-823341-011
RBK 00 pro-V120 - M	for connection of conductors with bare ends (top terminals- M8 screws, bottom terminals – V-clamps)	63-823341-021
RBK 00 pro-P	for connection of conductors with bare ends (top terminals- S-bridge clamps, bottom terminals – Prism clamps)	63-823341-031
RBK 00 pro-P-M	for connection of conductors with bare ends (top terminals- M8 screws, bottom terminals – Prism clamps)	63-823341-041
RBK 00 pro 2 x V120	for connection of conductors with bare ends (top terminals- S-bridge clamps, bottom terminals – double V-clamps)	63-823341-051
RBK 00 pro 2 x V120-M	for connection of conductors with bare ends (top terminals- M8 screws, bottom terminals – double V-clamps)	63-823341-061

Table 87. RBK 00 pro-V120 TERMINAL CLAMPS

	Clamp	Picture of a clamp	Drawing of clamp	Cross-section of conductors	Cu bar	Tightening torque
terminals on the consumer side	S-bridge clamp 2 x M5 x 16			Cu/Al conductor 4÷50 mm²	maximum bar	3 Nm*
terminals on the	M8 x 16 screw			conductor with lug terminal up to 70 mm²	width 20 mm	10 Nm*
	V-clamp			25 ÷ 120 mm²		20 Nm*
	v-ciamp			16 ÷ 95 mm²		20 11111
	HM 10-120			● 10 - 70 mm²		15 Nm*
minals	MIVI 10-120			25 - 120 mm ² 25 - 95 mm ²		TO INITI
cable terminals	Double V-clamp			2 x (25 ÷ 120 mm²)	-	20 Nm*
	Double v-clamp	5		2 x (16 ÷ 95 mm²)		ZU INITI
		II		2 x (10 ÷ 70 mm²)		
	Prism clamp			2 x (10 ÷ 50 mm²)		5,5 Nm*

For stranded conductors using cable ferrules is recommended *using of tension wrench is recommended **for stranded conductors using cable ferrules is recommended



NEW FEATURES OF CABLE TERMINALS

- connection of one or two sector-shaped conductors with cross-section up to 120 mm²
- connection of two round conductors with bare ends and cross-section up to 70 mm²

SPACE SAVING

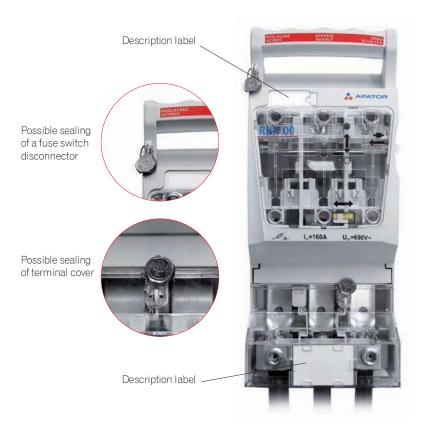
possible reduction of external width of cable distribution cabinet to width of a fuse switch disconnector

EFFICIENT CURRENT CIRCUIT

 no screw or riveted connection between contact and cable terminal (uniform design of current circuit ensures lower power loss and operating temperature)

SAFETY

- fuse cover and cable terminal cover sealing
- extension of covering of conductors connected to cable terminals by installation of additional covers





Extension of covering of conductors connected to cable terminals by installation of additional covers



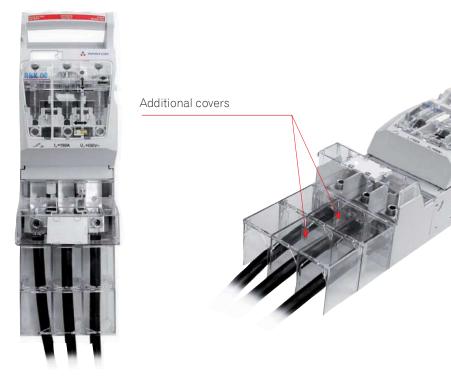
Possible connection of two sector-shaped conductors with cross-section up to 120 mm² each with double V-clamp



Possible connection of two round conductors with cross-section up to 70 mm² with Prism clamp

EXTENDED COVERING OF CONDUCTORS CONNECTED TO CABLE TERMINAL

For extension of covering of conductors connected to cable terminals, for example: to fully cover cables in cable distribution cabinet, any required number of additional covers could be installed (article number of additional extending cover: 51-930849-011). Cover length - 50 mm.



RBK 00 pro-V120 with V-clamp for connection of sector-shaped conductors with cross-section up to 120 $\rm mm^2$





RBK 00 pro-V120 with double V-clamp for connection of two sector-shaped conductors with cross-section up to 120 mm² each





RBK 1 pro (250 A, 690 V)

Table 88. TECHNICAL DATA

Parameters		RBK 1 pro		RBK 1 pro -S		-S	
Rated thermal current I,	$_{h}=I_{n}$	А	25	50		250	
Rated voltage U		V	69	90		690	
Utilization category		-	AC-23B	DC-22B	AC-23B	AC-22B	DC-22B*
Rated switching voltage	U _e	V	690	250	400	690	250*
Rated switching current	l _e	Α	250	250		250	
Rated short circuit	690 V	1. A	80	OF.	8	80	0.54
making current	400 V	kA	100	25	10	00	25*
Rated short circuit	690 V		80	OF.	8	80	OE t
withstand current	400 V	kΑ	100	25	10	00 25*	
Rated insulation voltage	U _i	V	10	100	1000		
Rated impulse withstand voltage U _{imp}	d	kV	8	3		8	
Rated power dissipation		W	3	2		32	
Rated frequency		Hz	50-60	-	50	50-60 -	
Mechanical durability	Number		16	600		1600	
Electrical durability of cycles			20	00	200		
IP degree of protection		-	3	0	30		
Size of fuse links		-	1			1	
Weight		kg	~	-2	~2,5		
Accesories on page 193							



RBK 1 pro for installation on mounting plate

* for 60 mm busbar system

Table 89. VERSIONS

RBK 1 pro/250 A			
For installation on mounting plate	Cable terminals	Version	Article No
For connection of round conductors	S-bridge clamps	RBK 1 pro	63-811748-011
For connection of conductors with lug terminals	Screws	RBK 1 pro-M	63-811748-021
For connection of sector-shaped conductors	V-clamps	RBK 1 pro-V	63-811748-031
For connection of round conductors, top terminals - V-terminals, bottom terminals - S-bridge terminals	V- clamps / S-bridge clamps	RBK 1 pro VG	63-811784-011
For connection of round conductors, top terminals - V-terminals, bottom terminals - screw terminals	V- clamps/screws	RBK 1 pro VG-M	63-811784-021
For connection of round conductors, top terminals - S-bridge terminals, bottom terminals - V-terminals	S-bridge clamps / V- clamps	RBK 1 pro VD	63-811784-031
For connection of round conductors, top terminals - screw terminals, bottom terminals - V-terminals	screw terminals / V- clamps	RBK 1 pro VD-M	63-811784-041
RBK 1 pro-S			
For installation on to busbar system	Cable terminals	Version	Article No
60 mm busbar system			
Top cable terminals, for connection of round conductors	S-bridge clamps	RBK 1 pro-SG 60	63-811750-011
Bottom cable terminals, for connection of round conductors	S-bridge clamps	RBK 1 pro-SD 60	63-811750-021
Bottom cable terminals, for connection of sector-shaped conductors	V- clamps	RBK 1 pro-SD-V 100	63-811750-121
Bottom cable terminals, for connection of conductors withlug terminals	Screws	RBK 1 pro-SD-M 60	63-811750-061
Top cable terminals, for connection of sector-shaped conductors	V- clamps	RBK 1 pro-SG-V 60	63-811750-091
Bottom cable terminals, for connection of sector-shaped conductors	V- clamps	RBK 1 pro-SD-V 60	63-811750-101

Accesories on page 123

RBK 1 pro-S			
For installation on to busbar system	Cable terminals	Version	Article No.
100 mm busbar system			
Top cable terminals, for connection of round conductors	S-bridge clamps	RBK 1 pro-SG 100	63-811750-031
Bottom cable terminals, for connection of round conductors	S-bridge clamps	RBK 1 pro-SD 100	63-811750-041
Top cable terminals, for connection of conductors with lug terminals	Screws	RBK 1 pro-SG-M 100	63-811750-071
Bottom cable terminals, for connection of conductorswith lug terminals	Screws	RBK 1 pro-SD-M 100	63-811750-081
Top cable terminals, for connection of sector-shaped conductors	V-clamps	RBK 1 pro-SG-V 100	63-811750-111
Bottom cable terminals, for connection of sector-shaped conductors	V-clamps	RBK 1 pro-SD-V 100	63-811750-121

Table 90. RBK 1 pro TERMINAL CLAMPS

Description	RBK 1 pro	RBK 1 pro-M	RBK 1 pro-V
Clamp	S-bridge clamp 2xM8x30	M10x25 screw	V-clamp HS 35-300-C
Picture of a clamp			
Drawing of a clamp			
Cross-section of conductors	Cu/Al conductor 35÷120 mm²	conductor with lug terminal up to 120 mm²	V-clamp for direct fixing of conductor with bare end with cross-section of: 35 - 185 mm ² 35 - 240 mm ² 35 - 240 mm ² 35 - 240 mm ²
Cu bar	maximum bar	width 35 mm	00 2 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Tightening torque	10 Nm*	20 Nm*	40 Nm*
Dimensions and spacing of holes for installation of RBK 1 pro on mounting plate	8	6 94 100	09



For stranded conductors using cable ferrules is recommended *using of tension wrench is recommended **for stranded conductors using cable ferrules is recommended





RBK 1 pro for installation on mounting plate



RBK 1 pro-SG RBK 1 pro-SD for installation on to busbar system



RBK 1 pro for installation on mounting plate, with additional terminal shrouds



RBK 1 pro VD-M
for installation on mounting plate,
picture of fuse switch disconnector
without fuse links cover and terminal shrouds,
top cable terminal - M screws,
bottom cable terminal - V-clamps,
(RBK 1 pro VG-M - bottom cable terminal - M screws,
top cable terminal - V-clamps)

RBK 2 pro (400 A, 690 V)

Table 91. TECHNICAL DATA

Parameters			RBK 2 pro			
Rated thermal current I _{th}		А	400			
Napięcie znamionowe U _n				690		
Utilization category			AC-23B	DC-21B	DC-22B	
Rated switching voltage U _e			690	440	220	
Rated switching current I			400	400	400	
Rated short circuit making		kΑ	80	15	20	
current	irrent 400 V		100	15	20	
Rated short circuit withstand	690 V	LA	80	15	20	
current	400 V	kΑ	100			
Rated insulation voltage Ui		V		1000		
Rated impulse withstand voltage	U _{imp}	kV	12			
Rated power dissipation		W	45			
Rated frequency		Hz	50-60 -			
Mechanical durability	Num	ber		100		
Electrical durability of cyc		eles		200		
IP degree of protection				IP20		
Size of fuse links				2		
Accessories on page 123						



RBK 2-V pro for installation on mounting plate

Table 92. VERSIONS

RBK 2 pro/400 A	Cable terminal	Article No.	
For installation on mo	unting plate		
RBK 2 pro	for connection of round condutors	S-bridge clamps	63-811685-011
RBK 2 pro-V	for connection of sector-shaped condutors	V-clamps	63-811685-071
RBK 2 pro-2V	for connection of sector-shaped conductors	double V- clamps	63-811685-081
RBK 2 pro-M	or connection of conductors with lug terminals	M10 screws	63-811685-061
RBK 2 pro-VG	for connection of sector-shaped / round conductors top terminals - V-clamps, bottom terminals - S-bridge clamps	V-clamps / S-bridge clamps	63-811685-201
RBK 2 pro-VG-M	for connection of sector-shaped conductors / conductors with lug terminals top terminals - V-clamps, bottom terminals - screw terminals	V-clamps / screws	63-811685-202
RBK 2 pro-VD	for connection of round / sector-shaped conductors top terminals - S-bridge clamps, bottom terminals - V-clamps	S-bridge clamps / V-clamps	63-811685-203
RBK 2 pro-VD-M	for connection of conductors with lug terminals / sector-shaped conductors top terminals - screw terminals , bottom terminals - V-clamps	screws / V-clamps	63-811685-204
For installation on to 6	0 mm busbar system		
RBK 2 pro-M-SD 60	Bottom cable terminals, for connection of conductors with lug terminals	M10 screws	63-811686-061
RBK 2 pro-M-SG 60	Top cable terminals, for connection of conductors with lug terminals	M10 screws	63-811686-051
RBK 2 pro-V-SD 60	Bottom cable terminals, for connection of sector-shaped conductors	V-clamps	63-811686-101
RBK 2 pro-V-SG 60	Top cable terminals, for connection of sector-shaped conductors	V-clamps	63-811686-091
RBK 2 pro-2V-SD 60	Bottom cable terminals, for connection of sector-shaped conductors	double V- clamps	63-811686-141
RBK 2 pro-2V-SG 60	Top cable terminals, for connection of sector-shaped conductors	double V- clamps	63-811686-131
For installation on to 1	00 mm busbar system		
RBK 2 pro-M-SD 100	Bottom cable terminals, for connection of conductors withlug terminals	M10 screws	63-811686-081
RBK 2 pro-M-SG 100	Top cable terminals, for connection of conductors with lug terminals	M10 screws	63-811686-071
RBK 2 pro-V-SD 100	Bottom cable terminals, for connection of sector-shaped conductors	V-clamps	63-811686-121
RBK 2 pro-V-SG 100	Top cable terminals, for connection of sector-shaped conductors	V-clamps	63-811686-111
RBK 2 pro-2V-SD 100	Bottom cable terminals, for connection of sector-shaped conductors	double V-clamps	63-811686-161
RBK 2 pro-2V-SG 100	Top cable terminals, for connection of sector-shaped conductors	double V-clamps	63-811686-151



100



Table 93. RBK 2 pro TERMINAL CLAMPS

Description	Clamp	Drawing of clamp	Cross-section of conductors	Cu bar	Tightening torque	Dimensions and spacing of holes for installation of RBK 2 on mounting plate
	S-bridge clamp 2 x M8 x 30	(mm)	Cu/Al conductor 50÷185 mm²		10 Nm*	
	M10 x 30 screw		conductor with lug terminal up to 240 mm²		20 Nm*	013
RBK 2 pro	V- clamp 35-300SW-B		V-clamp for direct fixing of conductor with bare end with cross-section: 35 - 185 mm² 35 - 240 mm² 35 - 240 mm² 35 - 300 mm²	maxi- mum bar width 30 Nm*	130	
	double V- clamp HS2/ 35-240-C		V-clamp for direct fixing of conductor with bare end with cross-section: 35 - 185 mm² 35 - 240 mm² 35 - 240 mm²		40 Nm*	

For stranded conductors using cable ferrules is recommended *using of tension wrench is recommended



RBK 2 pro-V for installation on mounting plate, cable terminals: V-clamps



RBK 2 pro-2V for installation on mounting plate, cable terminals: double V-clamps



RBK 2 pro-SG*
(top cable terminal: M10 screws)
RBK 2 pro-SD*
(bottom cable terminal: M10 screws)
for installation on to busbar systems



RBK 2 pro-2V-SG (top cable terminal: double V-clamp RBK 2 pro-2V-SD (bottom cable terminal: doubleV-clamp) for installation on to busbar systems



RBK 2 pro-V-SG (top cable terminal: V-clamp) RBK 2 pro-V-SD (bottom cable terminal: V-clamp) for installation on to busbar systems

RBK 3 pro (630 A, 690 V)

Table 94. TECHNICAL DATA

Parametr			RBK 3 pro					
			for installation on for installation on mounting plate busbar system					
Rated thermal current I _{th}		А			6	30		
Rated voltage U _n		V			69	90		
Utilization category		-	AC-23B	AC-22B	DC-21B	AC-23B	AC-22B	AC-21B
Rated switching voltage U _e		V	400	690	440	400	500	690
Rated switching current I			630	630	630	630	630	630
Rated short circuit making U _e =690 V current U _e =500 V		kA	80 120					
Rated short circuit withstar current	U _e =690 V U _e =500 V	kA	80 120					
Rated insulation voltage U _i		V	1000					
Rated impulse withstand vo	Itage U _{imp}	kV	12					
Rated frequency		Hz	50	-60	-		50-60	
Mechanical durability	Number		1000					
Electrical durability of cycles			200					
IP degree of protection			IP 20					
Size of fuse links			3					
Accessories on page 123								



RBK 3 pro main version for installation on mounting plate

Table 95. VERSIONS

RBK 3 pro, RBK 3	pro-S for installation on 60 mm busbar system	Cable terminal	Article No.
RBK 3 pro	for connection of round condutors	S-bridge clamps	63-811761-011
RBK 3 pro-M	for connection of condutors with lug terminals	M12 screws	63-811761-021
RBK 3 pro-2xV	for connection of sector-shaped condutors	ingoings terminals two single V-clamps per phase	63-811761-031
RBK 3 pro-SD	bottom cable terminals, for connection of round conductors	S-bridge clamps	63-028802-001
RBK 3 pro-SG	top cable terminals, for connection of round conductors	S-bridge clamps	63-028802-002
RBK 3 pro-SD-M	bottom cable terminals, for connection of conductors with lug terminals	M12 screws	63-028802-003
RBK 3 pro-SG-M	top cable terminals, for connection of conductors with lug terminals	M12 screws	63-028802-004

Tabela 96. RBK 3 pro TERMINAL CLAMPS

Version	Clamp	Drawing of clamp	Cross-section of conductors	Cu bar	Tighte- ning to- rque	Dimensions and spacing of holes for installation of RBK 3 on mounting plate
	S-bridge clamp 2 x M8 x 35		Cu/Al conductor 50 ÷ 185 mm²		10 Nm*	10,5
RBK 3 pro	M12 x 30 screw		conductor with lug terminal up to 240 mm²	maxi- mum bar width	20 Nm*	R 9
	V- clamp 35-300SW-B		V-clamp for direct fixing of two conductors with bare ends with cross-section of: 35 - 185 mm ² 35 - 240 mm ² 35 - 240 mm ² 35 - 300 mm ²	35 mm	30 Nm*	151

For stranded conductors using cable ferrules is recommended *using of tension wrench is recommended





RBK 4a (1250 A, 500 V; 1600 A, 400 V)

Table 97. TECHNICAL DATA

Parametr	RBK 4a			
Rated thermal current I _{th} =I _n	А	1250	1600	
Utilization category	-	AC-22B	AC-21B	
Rated switching voltage U _e	V	500	400	
Rated switching current I _e	А	1250	1600	
Rated short circuit withstand current	kΑ	50		
Rated insulation voltage U _i	V	800		
Rated impulse withstand voltage U _{imp}	kV	8		
Rated frequency	Hz	50-60		
Mechanical durability	c.p	р 600		
Electrical durability	c.ł.	100		
IP degree of protection		IP	20	
Size of fuse links		4	а	



RBK 4a for installation on mounting plate

Table 98. VERSIONS

RBK 4a		Weight	Cable terminal	Article No
RBK 4a/1250/1	ONE POLE SWITCHING - each phase independently, for connection of conductors with lug terminals	4,2 kg	screws	63-946868-001
RBK 4a/1250/3	THREE POLE SWITCHING - all phases simultaneously, for connection of conductors with lug terminals	13,0 kg	screws	63-946868-002
RBK 4a/1600/1	ONE POLE SWITCHING - each phase independently, for connection of conductors with lug terminals	5,0 kg	screws	63-946869-001
RBK 4a/1600/3	THREE POLE SWITCHING - all phases simultaneously, for connection of conductors with lug terminals	14,0 kg	screws	63-946869-002

Tabela 99. RBK 4a TERMINAL CLAMPS

Version	Clamp	Drawing of clamp	Cross-section of conductors	Cu bar	Tightening torque	Dimensions and spacing of holes for installation of RBK 4a on mounting plate
RBK 4a 1250	M16 x 50 screw	#	conductor with lug terminal up to 800 mm ²	00010	FC No. *	8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
RBK 4a 1600	2 x M12 x 60 screw		conductor with lug terminal up to 800 mm ²	2 x 80 x 10	56 Nm*	45

ELECTRONIC FUSE MONITORING MODULE - DESCRIPTION

- L1, L2, L3 diodes are flashing all three phases are supplied, all fuse links are operational.
 Relay contacts: [21..22] - closed; [13..14] - opened
- L1, L2, L3 diodes are blinking all three phases are supplied, fuse links operated
- Relay contacts: [21..22] opened; [13..14] closed

 L1, L2, L3 diodes are off two or more phases are not supplied or fuse links are removed.

 Relay contacts: [21..22] opened; [13..14] closed

PARAMETERS

- operating voltage AC 400 ÷ 690 V, 40 ÷ 60 Hz;
- relay parameters 5A, 250 V~

CAUTION!

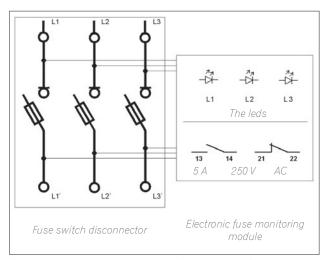
For use only with fuse-links with non-isolated gripping lugs!

ELECTRONIC FUSE MONITORING MODULE VERSIONS ACCORDING TO POWER SUPPLY CONNECTION

RBK 00-XT - for RBK 00 installed on mounting plate, with power supply connected to top cable terminals RBK 00-X - for RBK 00 installed on mounting plate, with power supply connected to bottom cable terminals RBK 00S-X - for RBK 00 installed on to 60 mm busbar system



RBK 00-X with electronic fuse monitoring module



disconnector contact position during normal operation

Table 100. VERSIONS

Versions with electron	Versions with electronic fuse monitoring module, cable terminals - S-bridge clamps						
RBK 00 pro-XT	For installation on mounting plate, power supply connected to top cable terminals	63-823304-011					
RBK 00 pro-X	For installation on mounting plate, power supply connected to top bottom terminals	63-823304-021					
RBK 00 pro-SG -X	For installation on to 60 mm busbar system, top cable terminals	63-823345-011					
RBK 00 pro-SD-X	For installation on to 60 mm busbar system, bottom cable terminals	63-823345-021					
RBK 1 pro-XT	For installation on mounting plate, power supply connected to top cable terminals	63-811785-011					
RBK 1 pro-X	For installation on mounting plate, power supply connected to top bottom terminals	63-811785-021					
RBK 1 pro-SG 60-X	For installation on to 60 mm busbar system, top cable terminals	63-811787-011					
RBK 1 pro-SD 60-X	For installation on to 60 mm busbar system, bottom cable terminals	63-811787-021					
RBK 1 pro-SG 100-X	For installation on to 100 mm busbar system, top cable terminals	63-811787-031					
RBK 1 pro-SD 100-X	For installation on to 100 mm busbar system, bottom cable terminals	63-811787-041					
RBK 2 pro-XT	For installation on mounting plate, power supply connected to top cable terminals	63-811786-011					
RBK 2 pro-X	For installation on mounting plate, power supply connected to top bottom terminals	63-811786-021					
RBK 2 pro-SG 60-X	For installation on to 60 mm busbar system, top cable terminals	63-811788-011					
RBK 2 pro-SD 60-X	For installation on to 60 mm busbar system, bottom cable terminals	63-811788-021					
RBK 2 pro-SG 100-X	For installation on to 100 mm busbar system, top cable terminals	63-811788-031					
RBK 2 pro-SD 100-X	For installation on to 100 mm busbar system, bottom cable terminals	63-811788-041					





RBK Fuse switch disconnectors

intended for distribution of electricity and protection of electrical equipment against short-circuits and overloads, with industrial fuse links







APPLICATIONS

RBK fuse switch disconnectors are designed for distribution of electricity and protection of electrical equipment against short-circuits and overloads with industrial fuse links. They are conforming to EN 60947-1, EN 60947-3, IEC 60947-1, IEC 60947-3 standards. They are intended for installation in low voltage distribution boards, cable and metering cabinets.

CONSTRUCTION

- thermoplastic parts of RBK fuse switch disconnectors are made of fibre glass strengthened polyamide with halogen free flame retardant added and flammability class V2
- RBK fuse switch disconnectors consist of following parts:
 - three pole main base with spring-loaded contacts designed for connection of circular or sector-shaped conductors, conductors with lug terminals or bars
 - removable cover with fuse links
- arc chutes with steel deionization plates over top contacts
- silver plated contacts providing low power loss

MOUNTING

- on mounting plate
 - RBK 000, RBK 00, RBK 1
- on to busbar systems
 - 60 mm busbar system
 - RBK 000-S installation on to busbar system with hooked clamps

OPERATING CONDITIONS

- to be installed in the room free of any dust, aggressive or explosive gases,
- altitude up to 2000 meters above sea level,
- outdoor in cabinets with protection degree > IP 34,
- ambient temperature from -25 °C to +55 °C,
- relative humidity of the air should not be higher than 50% at temperature of +40°.

FUNCTIONALITY:

- making and breaking operations should be done with determined movement
- possible connection of circular or sector-shaped conductors with bare ends (V-terminals, 2V-terminals) or conductors with lug terminals (screw terminals)
- voltage test is performed through test holes in fuse link cover

CONFORMITY WITH STANDARDS

EN 60947-1 EN 60947-3 HD 60269-2

Table 101. RBK FUSE SWITCH DISCONNECTORS TECHNICAL DATA

Parameters			RBK 00	RBK 1
Rated thermal current I _{th} 1)		А	160	250
Rated voltage U _n	V	690	690	
Utilization category		-	AC-22B	AC-22B
Rated switching current I _e		А	160	250
Rated switching voltage U _e		V	690	690
Detail about aircuit making aurrant	690 V	- kA	80	80
Rated short circuit making current	400 V	T KA	100	100
Rated short circuit withstand current	690 V	- kA	80	80
Rated short circuit withstand current	400 V	T KA	100	100
Rated insulation voltage U _i	nsulation voltage U _i		1000	1000
Rated power dissipation	ower dissipation		12	32
Rated impulse withstand voltage U _{imp.}		kV	8	8
Rated frequency	frequency		50-60	50-60
Mechanical durability	Number	1600	1600	
Electrical durability		of cycles	200	200
IP degree of protection		IP	20	30 ³⁾
Weight	kg	~0,65	~2	
size of fuse links PN/IEC		=	00	1

¹⁾ I_{th} - thermal current of fuse switch disconnector without external enclosure, installed outdoors (In case of the installation of fuse switch disconnectors in enclosures then load factor should be considered)





RBK 00 (160 A, 690 V)

Table 102. TECHNICAL DATA

Parameters	RBK 00		
Rated thermal current I _{th} =I _n	А	160	
Rated voltage U _n		V	690
Utilization category		-	AC-22B
Rated switching voltage U _e		V	690
Rated switching current I _e		А	160
Rated short circuit	LΑ	80	
making current	ł kA	100	
Rated short circuit	LΑ	80	
withstand current	kΑ	100	
Rated insulation voltage U		V	1000
Rated impulse withstand voltage U _{imp}		kV	8
Rated power dissipation		W	12
Rated frequency		Hz	50-60
Mechanical durability	oer	1600	
Electrical durability	les	200	
IP degree of protection		IP 20	
Size of fuse links		00	
Accesories on page 122			



RBK 00 for installation on mounting plate

Table 103. VERSIONS

RBK 00/160 A		Cable terminal	Article No.
RBK 00	for connection of round conductors	S-bridge clamps	63-823333-011
RBK 00-M	for connection of conductors with lug terminals	M8 screws	63-823333-021
RBK 00-V	for connection of sectorshaped conductors	V-shape clamps	63-823333-031
RBK 00-W	for connection of round conductors, lenghtened terminal shrouds	S-bridge clamps	63-823333-041
RBK 00-M-W	for connection of conductors with lug terminals, lenghtened terminal shrouds	M8 screws	63-823333-051
RBK 00-V-W	for connection of sectorshaped conductors, lenghtened terminal shrouds	V-shape clamps	63-823333-061

Table 104. RBK 00 TERMINAL CLAMPS

Description	Clamp	Drawing of clamp	Cross-section of conductors	Cu bar	Tightening torque	Dimensions and spacing of holes for installation of RBK 00 on mounting plate
	S-bridge clamp 2 x M5 x 16		Cu/Al conductor 4 ÷ 50 mm²		3 Nm*	5 70
RBK 00	M8 x 16 screw		conductor with lug terminal up to 70 mm ²	maxi- mum bar width	10 Nm*	
	V-shape clamp 2 x M5 x 20		2) \$\iii 4 \text{ mm}^2 - 70 \text{ mm}^2\$ $ 4 \text{ mm}^2 - 95 \text{ mm}^2$ 1) \cdot \text{ 1,5 mm}^2 - 2,5 \text{ mm}^2$$	20 mm	3 Nm*	66 3

For stranded conductors using cable ferrules is recommended

^{*}using of tension wrench is recommended

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RBK 1 (250 A, 690 V)

Table 105. TECHNICAL DATA

Parameters		RBK 1	
Rated thermal current I _{th} =I _n			250
Rated voltage Un		V	690
Utilization category		-	AC-22B
Rated switching voltage U _e		V	690
Rated switching current I _e		А	250
Rated short circuit	690 V	kΑ	80
making current] KA	100	
Rated short circuit	kΑ	80	
withstand current 400 V			100
Rated insulation voltage U _i			1000
Rated impulse withstand voltage Uim	0	kV	8
Rated power dissipation		W	32
Rated frequency		Hz	50-60
Mechanical durability	Numl	oer	1600
Electrical durability of cyc			200
IP degree of protection			30
Size of fuse links			1
Weight			~2
Accesories on page 123			



RBK 1 for installation on mounting plate

Table 106. VERSIONS

RBK 1/250 A				
For installation on mounting plate	Cable terminals	Version	Article No.	
For connection of round conductors	S-bridge clamps	RBK 1	63-811779-011	
For connection of conductors with lug terminals	Screws	RBK 1-M	63-811779-021	
For connection of sector-shaped conductors	V-clamps	RBK 1-V	63-811779-031	
For connection of round conductors, top terminals -V-terminals, bottom terminals - S-bridge terminals	V-clamps / S-bridge clamps	RBK 1 VG	63-811784-051	
For connection of round conductors, top terminals -V-terminals, bottom terminals - screw terminals	V- clamps / screws	RBK 1 VG-M	63-811784-061	
For connection of round conductors, top terminals -S-bridge terminals, bottom terminals - V-terminals	S-bridge clamps / V-clamps	RBK 1 VD	63-811784-071	
For connection of round conductors, top terminals-screw terminals, bottom terminals - V-terminals	screw terminals / V-clamps	RBK 1 VD-M	63-811784-081	





Table 107. RBK 1 TERMINAL CLAMPS

Description	RBK 1	RBK 1-M	RBK 1-V	
Clamp	S-bridge clamp 2 x M8 x 30	M10x25 screw	V-clamp HS 35-300-C	
Picture of a clamp				
Drawing of a clamp				
Cross-section of conductors	Cu/Al conductor 35 ÷ 120 mm²	conductor with lug terminal up to 120 mm²	V-clamp for direct fixing of conductor with bare end with cross-section of: 35 - 185 mm ² 35 - 240 mm ² 35 - 240 mm ² 35 - 300 mm ²	
Cu bar	maximum bar width 35 mm		33-240111111	
Tightening torque	10 Nm*	20 Nm*	30 Nm*	
Dimensions and spacing of holes for installation of RBK 1 pro on mounting plate	8	6 94	90	

For stranded conductors using cable ferrules is recommended *using of tension wrench is recommended



RBK1 for installation on mounting plate

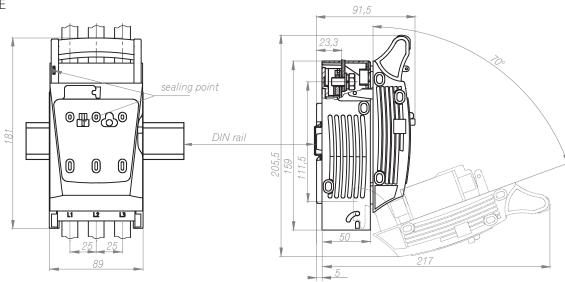


RBK 1 for installation on mounting plate, with additional terminal shrouds

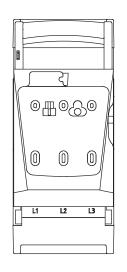


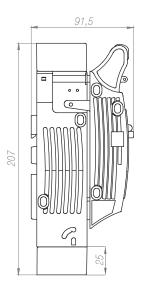
RBK 1 VD-M
for installation on mounting plate,
picture of fuse switch disconnector
without fuse links cover and terminal
shrouds, top cable terminal - M screws,
bottom cable terminal - V-clamps,
(RBK 1 VG-M - bottom cable terminal M screws, top cable terminal - V-clamps)

RBK 000 RBK 000-E

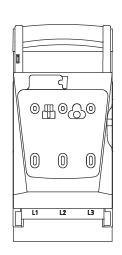


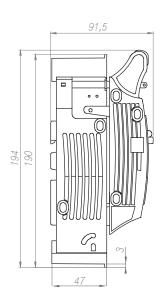
RBK 000-O





RBK 000-W

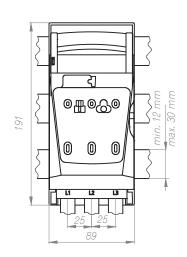


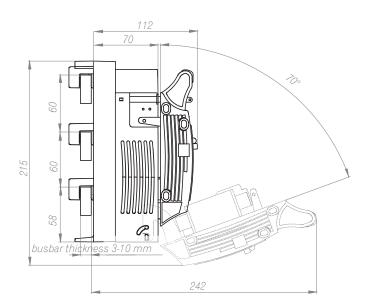




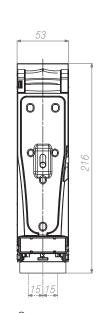


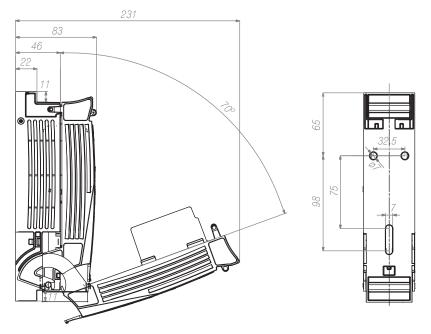
RBK 000-SG - top cable terminal RBK 000-SD - bottom cable terminal



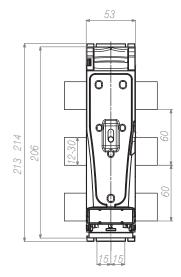


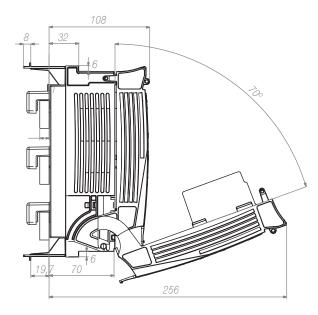
RBP 000 pro



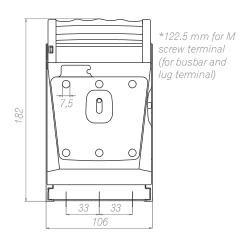


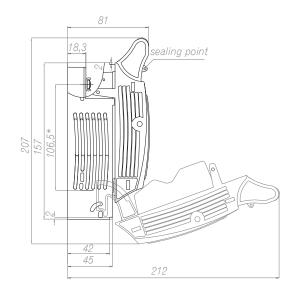
RBP 000 pro-S



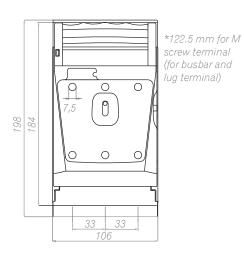


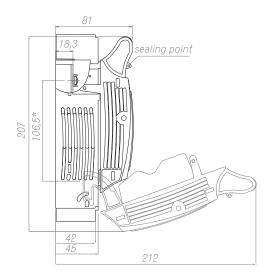
RBK 00 / RBK 00 pro





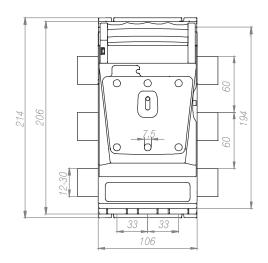
RBK 00-W / RBK 00 pro-W,

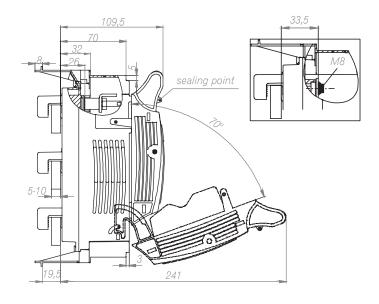




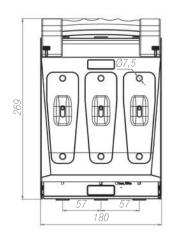


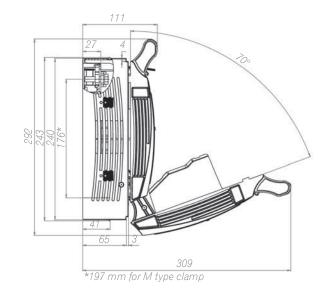
RBK 00 pro-S



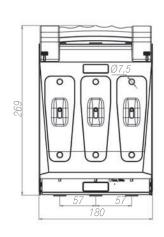


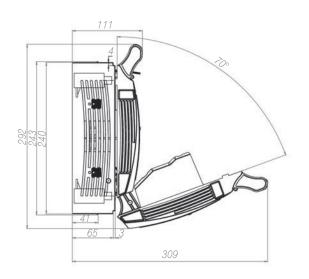
RBK 1, RBK 1 pro

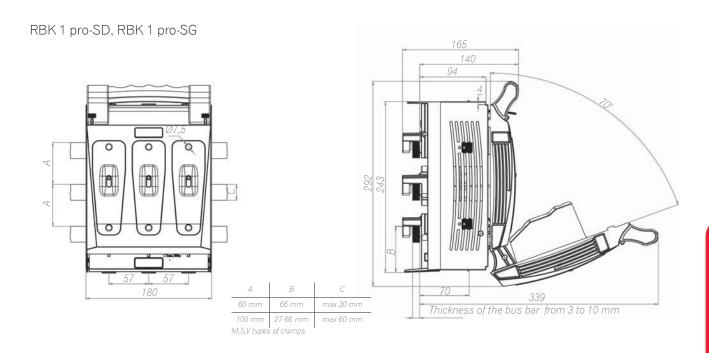




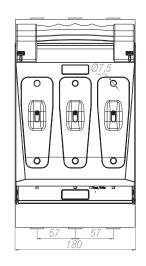
RBK 1 pro-V

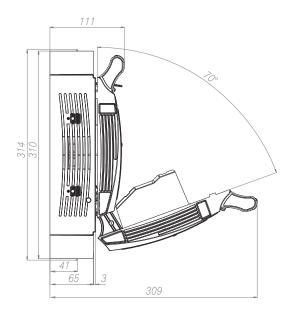




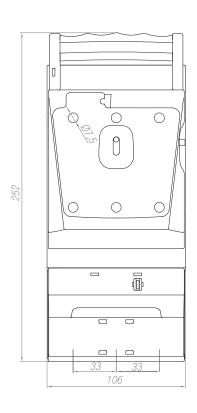


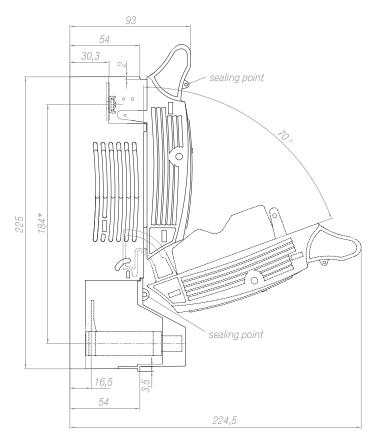
RBK 1 pro-O



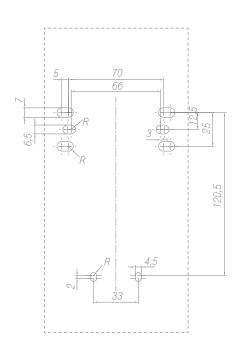






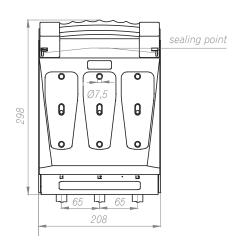


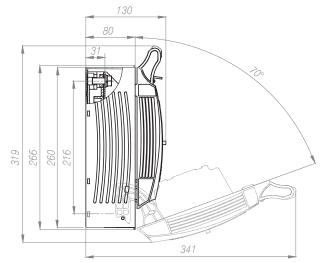
*197 mm for M screw terminal (for busbar and lug terminal)



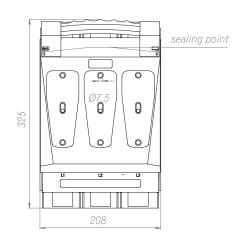
spacing of holes for installation of RBK 00 pro-V120 on mounting plate

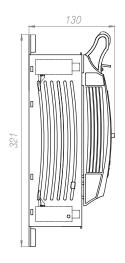
RBK 2 pro



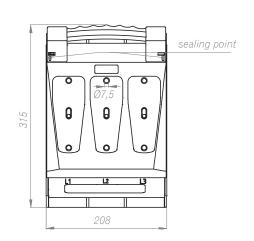


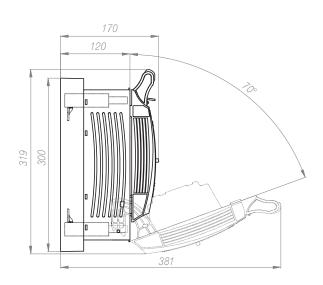
RBK 2 pro-V





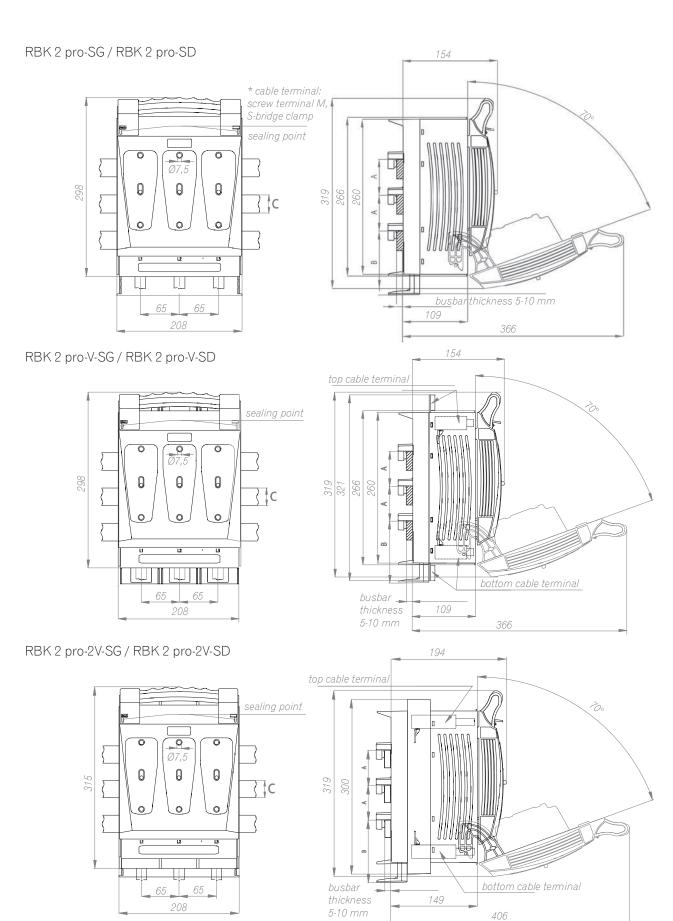
RBK 2 pro-2V





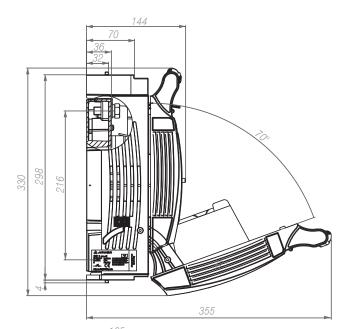


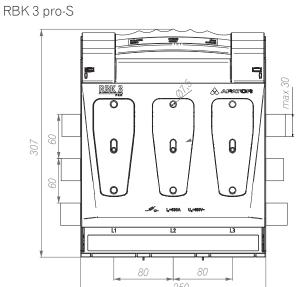


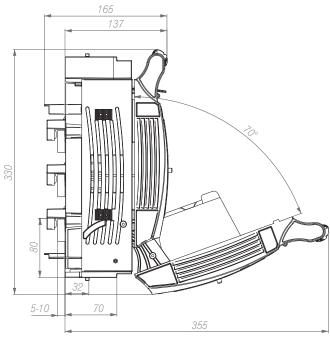


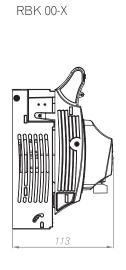
А	В	С
60 mm	75 mm	maks. 30 mm
100 mm	35-67 mm	maks. 60 mm

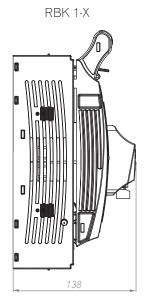


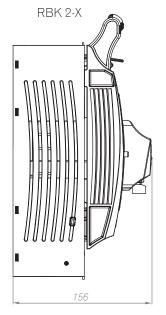








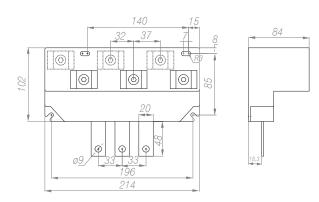




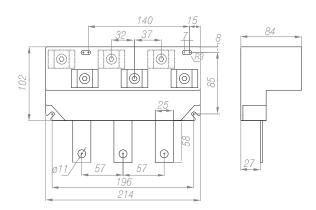


Terminal adapters:

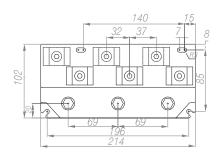
RBK 00

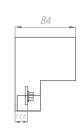




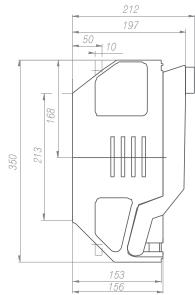


RBK 2

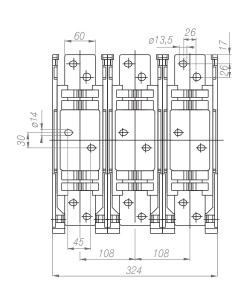




RBK 4a



RBK 4a 1600



RBK 4a 1250

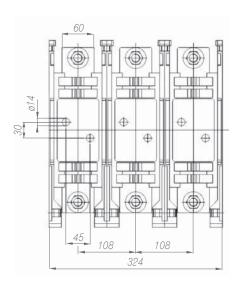


Table 108. RBK 000 - ACCESSORIES

Table 108. RBK 000 - ACCES	SSORIES		Z A APATOR
Description	Size	Article No.	Picture
Feeding bridge 2 x RBK 000, 35 mm ²	000	1119510055T	A AMARITA II AMARITA III AMARITA II AMARITA II AMARITA II AMARITA II AMARITA II AMARITA
Feeding bridge 3 x RBK 000, 35 mm ²	000	1119510056T	A AMPLIAN IS SOUTH
Feeding bridge 4 x RBK 000, 35 mm ²	000	1119510057T	A AMPLICAT, 15 Sectors
Feeding bridge 5 x RBK 000, 35 mm ²	000	1119510058T	A APPRIOR 11 Sec. 100
Feeding bridge 2 x RBK 000, 50 mm ²	000	1119510059T	A MANAGER (G or
Feeding bridge 3 x RBK 000, 50 mm ²	000	1119510060T	A APATON CC
Feeding bridge 4 x RBK 000, 50 mm ²	000	1119510061T	A APATON (6 == ==
Feeding bridge 5 x RBK 000, 50 mm ²	000	1119510062T	AAMSON (4
Feeding bridge RBK 000 25-95 mm² (1 set - 3 pcs.) for connection of conductor of cross-section 25 - 70 mm² 25 - 95 mm² ■	000	1119510071T	
Auxiliary contacts (microswitch) AC-15 U _e 230 V~ I _e 2,5 A DC-13 U _e 230 V~ I _e 0,3 A	000	1115296311T	
Additional terminal shroud "O" extends shroud length of 25 mm	000	51-930160-011	





Table 109. RBK 00 - ACCESSORIES

Description Description	Size	Article No.	Picture
Feeding bridge 2 x RBK 00, 35 mm ²	00	1119510063T	A constant is now one
Feeding bridge 3 x RBK 00, 35 mm ²	00	1119510064T	A AMERICAN, 12 Nov 200
Feeding bridge 4 x RBK 00, 35 mm ²	00	1119510065T	A AMERICAN 12 TO 1
Feeding bridge 5 x RBK 00, 35 mm ²	00	1119510066T	A AMERICA
Feeding bridge 2 x RBK 00, 50 mm ²	00	1119510067T	A APATON (4
Feeding bridge 3 x RBK 00, 50 mm ²	00	1119510068T	A AMATON CE So- and
Feeding bridge 4 x RBK 00, 50 mm ²	00	1119510069T	A APARTON (C ser. ser
Feeding bridge 5 x RBK 00, 50 mm ²	00	1119510070T	A APASTON (6 == ==
Feeding bridge clampRBK 00 25-95 mm² (1 set - 3 pcs.) for connection of conductor of cross-section 25 - 70 mm² 25 - 95 mm²	00	1119510072T	
Clamp for RBK 00 2x25 mm² 1x16 mm²	00	1119510073T	
Clamp for RBK 00 4x10 mm ²	00	1119510074T	

Description	Size/Version	Article No.	Picture		
Auxiliary contacts (microswitch) AC-15 U _e 230 V~ I _e 2,5 A DC-13 U _e 230 V~ I _e 0,3 A	00	1115296311T			
Additional terminal shroud "O" extends shroud length of 25 mm	00	51-930499-011			
Full cover (matt)	00	1361399021T			
Terminal adapter	RBK 00	1119510048T			
+ 3 x V-clamp + terminal shroud	RBK 00 W	1119510043T	Salas Culting		

Table 110. RBK 1, RBK 2, RBK 3 - ACCESSORIES

able 110. RDN 1, RDN 2, RDN 3 - ACCESSORIES						
Description	Version	Article No.	Picture			
Auxiliary contacts (microswitch) AC-15 $U_e 230 \text{ V} \sim I_e = 2,5 \text{ A}$ DC-13 $U_e 230 \text{ V} \sim I_e = 0,3 \text{ A}$	RBK 1 RBK 1 pro RBK 2	1115296316				
Auxiliary contacts (microswitch) AC-15 U _e 110/230/400 V~ I _e = 1 A DC-13 U _e 48/110/220 V~ I _e = 0,5 A screw terminals conductors cross-section: $- \text{ solid} - 1 \times 0,5 = 1,0 \text{ mm}^2$ $- \text{ stranded} - 1 \times 0,5 = 0,75 \text{ mm}^2$	RBK 3	1115296037				
Additional terminal shroud "O" extends shroud length of 35 mm	RBK 1 pro-O	51-823278-011				
Additional terminal shroud "O" extends shroud length of 60 mm	RBK 2-0	51-822405-011				
Terminal adapter RBK 1 + 3 x V-clamp + terminal shroud	RBK 1	1119510046T				
Terminal adapter RBK 2 + 3 x V-clamp + terminal shroud	RBK 2	1119510047T				

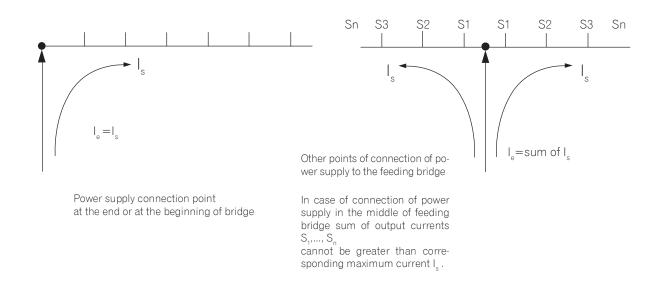




Table 111. RBK 00, RBK 000 FEEDING BRIDGES TECHNICAL DATA

	Cu busbar		
Materials	Insulating parts, pressed PC/ABS RAL7035		
waterials	Cover, injection molded PC/ABS RAL7035		
	Shroud, injection molded PC/ABS RAL7035		
Temperature range	>80 °C UL94V0		
	pressed PC/ABS		
	960 °C / 3.2 mm		
Glow wire flammability index	850 °C / 1 mm		
	injection molded PC/ABS 960 °C / 1 mm		
Insulation properties	Overvoltage category III/Pollution degree rating II		
O.T.	pressed PC/ABS 600 V		
CTI	injection molded PC/ABS 250 V		
Short-circuit strength	25 kA/0.1 s		
Dielectric strength	>32 kV / mm		
Rated impulse withstand voltage 35 mm ² / 50 mm ²	>6.5 kV / >8.5 kV		
Minimal insulating distance in air 35 mm²/ 50 mm²	>6 mm / >8 mm		
Minimal creepage distance 35 mm ² / 50 mm ²	>8.5 mm/>9 mm		
Rated switching voltage	690 V		

Feeding bridge length	Max. 1000 mm	Max. 300 mm	Max. 1000 mm	Max. 300 mm	
Cross-section	35 mm²	35 mm²	50 mm²	50 mm ²	
Power supply connection point at the end or at	the beginning of feed	ing bridge			
Maximum I _s current / phase	125 A	200 A	160 A	250 A	
Feeding conductors crosssection	35 mm²	70 mm²	50 mm²	95 mm²	
Other points of connection of power supply to the feeding bridge					
Maximum feeding current I _e	160 A	250 A	160 A	250 A	
Feeding conductors crosssection	70 mm²	95 mm²	70 mm²	95 mm²	



APPLICATION EXAMPLES

Fuse switch disconnectors RBK 00 connected with feeding bridge , power supply cables connected to feeding bridge clamps







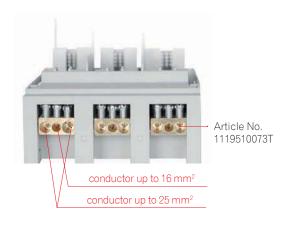
Article No. 1119510048T



RBK 00-W with terminal adapter for connection of sector- RBK 00-W with terminal clamp 1x16 mm², 2x25 mm²

35 - 95 mm²	※	35 - 120 mm²	
50 - 185 mm ²		50 - 240 mm²	•

shaped conductors with cross-section up to 240 mm² (view of fuse swith disconnector without fuse-link cover and terminal shrouds)



RBK 00-W with terminal clamp 1x16 mm², 2x25 mm² (view of fuse swith disconnector without fuse-link cover)



RBK 00-O for installation on mounting plate, version with additional terminal shrouds "O"

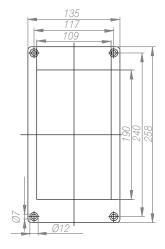


RBK 000-O for installation on mounting plate, version with additional terminal shrouds "O"

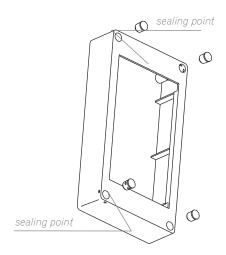


RBK 1-O for installation on mounting plate, version with additional terminal shrouds "O"

FULL COVER FOR RBK 00







TERMINAL ADAPTER FOR RBK 00 / RBK 1



CONFORMING TO STANDARDS:

- 1. PN-EN 60947-7-1: 2010
- 2. EN 60947-7-1: 2009





COVERING OF RBK FUSE SWITCH DISCONNECTORS (REAR INSTALLATION)

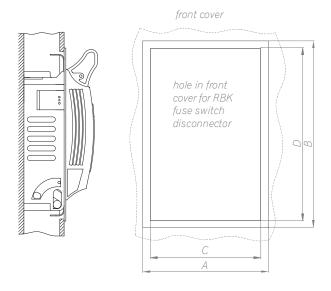
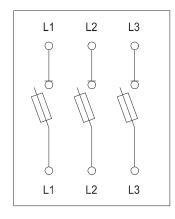


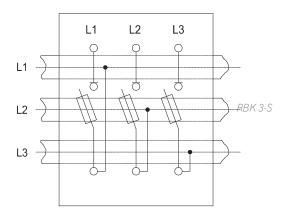
TABLE 112. FRONT COVER DIMENSIONS

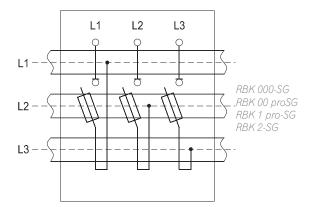
Тур	Α	В	С	D
RBK 000	104	166	94	156
RBK 000-S, RBK 000-W	104	205	94	195
RBK 00, RBK 00 pro, RBK 00 pro-S	120	207	110	197
RBK 00-W	120	207	110	182
RBK 1, RBK 1-S	198	262	186	250
RBK 2, RBK 2-S	230	285	209	255
RBK 2-V, RBK 2-2V	230	340	209	255
RBK 3, RBK 3-S	272	328	258	316

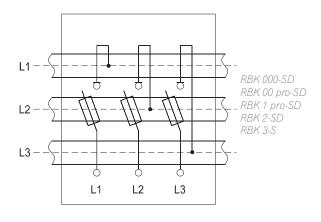
ELECTRICAL DIAGRAMS (RBK 1-S, RBK 3-S - POSSIBLE BOTTOM CABLE TERMINAL CONNECTION)



RBK 000 RBK 00 RBK 00 pro RBK 1 RBK 2 RBK 3







UNIVERSAL EARTHING DEVICE FOR RBK 000, 00, 1, 2, 3

Catalogue Nr 1119510032T



EXAMPLE OF THE ORDER OF RBK 2 - V - SD - 100

Fuse switch disconnector	160 A	RBK 000, RBK 00, RBK 00 pro	
	250 A	RBK 1	
	400 A	RBK 2	RBK 2
	630 A	RBK 3	
	V	Тур V	V
Terminal clamps	2V	Typ 2V	
	М	screw terminal	
	S	S-bridge clamps	
For installation on to busbar system	S		S
Cable terminal	D	bottom	D
Cable terriinal	G	top	
Pushar ayatam	60 mm	60	
Busbar system	100 mm	100	100

