

FUSE SWITCH-DISCONNECTORS OPVP10 UP TO 32 A



- Fuse switch-disconnectors OPVP10 are intended for cylindrical fuse-links size 10x38.
- They can safely switch off rated current and overcurrent. Devices meet the requirements for safe disconnection.
- Inverse connection is permissible and it affects neither the technical parameters nor the safety of the operator.
- Fuse switch-disconnectors OPVP10 can be sealed in the closed state.
- The devices are designed as modular for 45 mm cutout in the switchboard.
- Mounted on „U“ rail of type TH35 according to EN 60715.
- Switch-Disconnector design ...-S features LED signalization of the state of fuse-link for each pole.
- Fuse-link state can also be indicated by means of MD-M3 electronic signalling.

Fuse switch-disconnectors

Type	Order code	I_n [A]	Number of poles	Weight [kg]	Package [pcs]
OPVP10-1	OEZ-41013	32	1	0.063	12
OPVP10-1-S	OEZ-43683		1	0.068	12
OPVP10-1N	OEZ-43686		1+N	0.133	6
OPVP10-2	OEZ-41014		2	0.128	6
OPVP10-2-S	OEZ-43684		2	0.137	6
OPVP10-3	OEZ-41015		3	0.193	4
OPVP10-3-S	OEZ-43685		3	0.193	4
OPVP10-3N	OEZ-43687		3+N	0.271	3

Accessories

Description	Type	Order code	Weight [kg]	Package [pcs]
1-pole interconnecting busbar , cross-section 10 mm ² , max. current 63 A rated operating voltage AC 690 V / DC 1 000 V, length 210 mm	S1L-210-10	OEZ-38475	0.047	50
1-pole interconnecting busbar , průřez 16 mm ² , max. current 80 A rated operating voltage AC 690 V / DC 1 000 V, length 1 m	S1L-1000-16	OEZ-37375	0.302	50
2-pole interconnecting busbar , cross-section 10 mm ² , max. current 63 A rated operating voltage AC 415 V, length 210 mm	S2L-210-10	OEZ-38476	0.110	20
2-pole interconnecting busbar , cross-section 16 mm ² , max. current 80 A rated operating voltage AC 415 V, length 1 m	S2L-1000-16	OEZ-37378	0.447	20
3-pole interconnecting busbar , cross-section 10 mm ² , max. current 63 A rated operating voltage AC 415 V, length 210 mm	S3L-210-10	OEZ-38482	0.110	25
3-pole interconnecting busbar , cross-section 16 mm ² , max. current 80 A rated operating voltage AC 415 V, length 1 m	S3L-1000-16	OEZ-37379	0.737	20
End cap , for single-pole busbars of cross-section 10, 16 mm ²	EKC-1	OEZ-37383	0.0005	10
End cap , for 2-pole and 3-pole rails 16 mm ²	EKC-2+3	OEZ-37384	0.001	10
End cap , for 3-pole rails of cross-section 10 mm ²	EKC-3	OEZ-37385	0.001	10
Terminal extension , with long terminal, cross-section Cu 6 ÷ 50 mm ²	AL-50-S-L	OEZ-63149	0.033	1
Connection block , enables power supply of interconnecting busbars by conductors of cross-section up to 35 mm ² , the use of the block extends the mounting with by additional N-poles	ES-35-GS	OEZ-37388	0.03	10
Adapter on „U“ rail TH35 , for OPVP10	OD-OPV-AD45	OEZ-43148	0.008	1
Adapter for busbar system with spacing 60 mm, busbar thickness 5 or 10 mm, busbar width 12 ÷ 30 mm, cable outlet bottom, max. current 63 A	GA-60/63/54-1x7,5	OEZ-11883	0.56	1

Specifications

Rated operating current	I_e	32 A
Rated operating voltage	U_e	AC 690 V / DC 440 V
LED signalling voltage range		AC/DC 110 ÷ 690 V
Utilization category		AC 400 V AC-21B
		AC 690 V AC-20B
		DC 250 V DC-21B
Rated thermal current with fuse-link	I_{th}	32 A
Rated frequency	f_n	50 ÷ 60 Hz
Rated insulation voltage	U_i	AC 800 V
Rated conditional short-circuit current with fuse-links PV (RMS)	I_{cc}	AC 400 V 100 kA
		AC 690 V 50 kA
Rated impulse withstand voltage	U_{imp}	6 kV
Fuse-link size	diameter x length	10x38
Max. power losses of the fuse-link	P_v	4.3 W
Rated short-time withstand current	I_{cw} 1 s	1.6 kA
Rated short-circuit making capacity at DC 440 V	I_{cm}	3.5 kA

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Electrical endurance	operating cycles	300
Mechanical endurance	operating cycles	2 000
Degree of protection from front side, built-in device, cover closed		IP20
Connection cross-section		Cu / 0.75 ÷ 25 mm ² 2x (6 ÷ 16) stranded in the same size
Torque		2 ÷ 2.5 Nm
Operating ambient temperature	t	-25 ÷ +55 °C
Max. sea level		2 000 m
Seismic resistance according to VE ŠKODA		3 g / 8 ÷ 50 Hz
Overtoltage category / Rated voltage		I(II*) / AC 690 V, II(III*) / AC 500 V, III / AC 400 V
Standards		IEC 60947-1, -3; EN 60947-1, -3
Approval marks		

* For underground cable distribution systems with overvoltage protection or for exposure to a low thunderstorm electricity (table H2 EN 60947-1, IEC 60947-1).

EN 60947-3 ed. 2/A2, p. C.5 Instructions for the use of 1-pole controlled devices states:

These devices are intended for distribution systems, with possible necessity of switching and/or safe disconnection of individual phases, and must not be used for switching a primary circuit of a three-phase equipment.

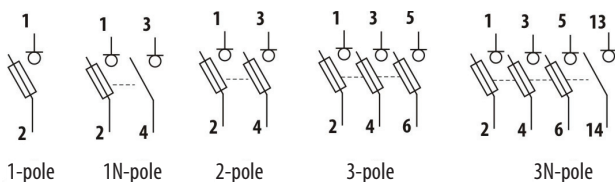
Reduction of rated current of fuse-links PV gG, aM according to the number of poles

Type	I _n [A]	Reduced rated current [A] (number of poles)					
		1	2	3	5	7	10
OPVP10	32	32	32	32	32	32	32

Fuse switch-disconnector with disconnecting link

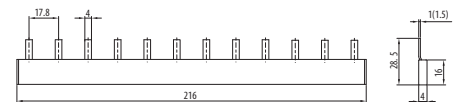
Rated operating current	I _e	32 A	
Thermal current with disconnecting link ZPV10	I _{th}	100 / 25 mm ²	
Utilization category		AC-20B	
Rated short-time withstand current	I _{ow} 1 s	1.6 kA	
Rated short-circuit making capacity	I _{cm}	AC 690 V	3.5 kA
		DC 440 V	4 kA
Power losses with disconnecting link at I _e	P _v	4.5 W	
Connection cross-section		0.75 ÷ 25 mm ²	

Diagram

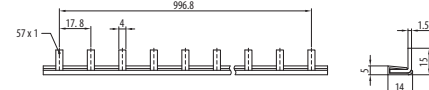


Interconnecting busbars

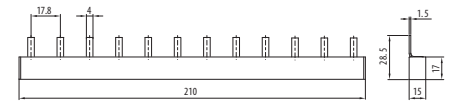
S1L-210-10



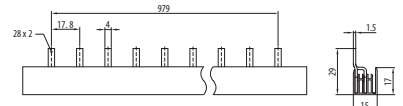
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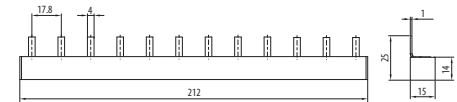
S2L-210-10



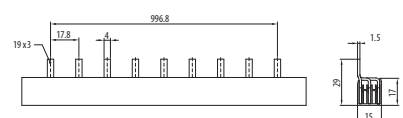
S2L-1000-16



S3L-210-10



S3L-1000-16



Dimensions

