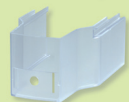


SUMMARY OF MODELS OF FUSE SWITCH-DISCONNECTORS OF VERTICAL DESIGN

					
Type	FSD00	FSD1	FSD2	FSD3	SL3
Rated operating current I_e	160 A	250 A	400 A	630 A	910 A
Rated operating voltage AC/DC U_e	690 V	690 V	690 V	690 V	690 V
Size	00	1	2	3	3
Busbar spacing	100/185 mm	185 mm	185 mm	185 mm	185 mm
Mounting width	50 mm	100 mm	100 mm	100 mm	100 mm
Fuse-link size	000/00	1	2	3	3 (gTr)
Utilization category at AC 400 V	AC-23B	AC-23B	AC-23B	AC-23B	AC-22B

Accessories

Remote signalling of fuse-link state		-	OD-FSD123-S			-
Remote signalings of cover position		OD-FH-SK	OD-FSD123-SK			-
Connecting sets		CS-FS00-3..	CS-FS123-WD			-
Levers of 3-pole control		OD-FSD00-TL	OD-FSD123-TL			-
Adapters for busbar systems with spacing 185 mm		OD-FS00-A	-	-	-	-
Covers with light indication of fuse state		-	OD-FSD12-VS		OD-FSD3-VS	-
Covers for cable outlet earthing and parallel outlet		-	OD-FSD12-V.		OD-FSD3-V.	-
Connecting space covers		OD-FS00-KP.	OD-FS123-K..			-
Locking inserts		OD-FH123-VU	OD-FSD123-VU			-
Measuring transformers		FSD00-3-...-M.	MA1.-FS123-..			-

SUMMARY OF MODELS OF FUSE SWITCH-DISCONNECTORS OF VERTICAL DESIGN

Description

Connecting hooks

- Busbar thickness $5 \div 12$ mm.
- Busbar width $12 \div 32$ mm.



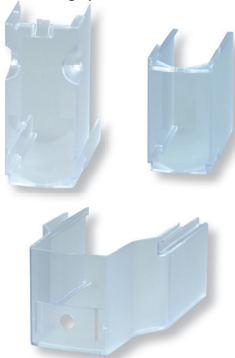
Adapter for busbar system with spacing 185 mm

- Enables compensation of mounting depth in combination with FSD1, FSD2, FSD3..



Connecting space covers

- Additional covering of outlet connecting space.



- To compensate mounting height of FSD00-33K with FSD1, FSD2, FSD3.



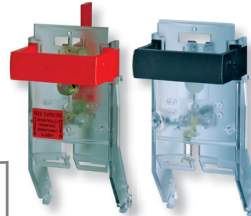
Adapter for parallel outlet

- Enable temporary connection of another outlet.



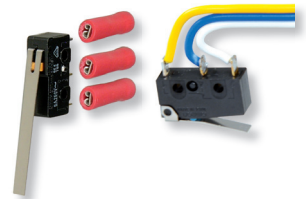
Covers

- For cable outlet earthing.
- For fuse adapter for parallel outlet HP-SE/L.
- With light indication of fuse-link state.



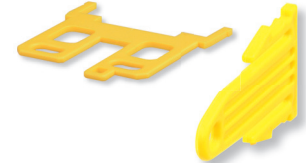
Remote signalling of cover position

- Indicates closed state.



Locking inserts

- For locking the switch-disconnector cover.



Remote signalling of fuse-link state

- Delivered as a set of microswitches, connecting cables and control levers.
- Conductors connected to the connector $0,5 \div 2,5$ mm².



Levers of 3-pole control

- Change of the switch-disconnector control from 1-pole to 3-pole control.



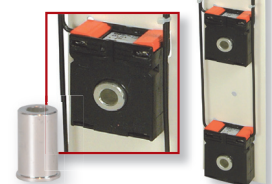
Connecting sets

- Accessory for switch-disconnector FSD00.
- Accessory for switch-disconnector FSD1, 2, 3.
- For connection of Cu/Al conductor of cross-section up to 95 mm².
- For connection of Cu/Al conductor of cross-section 2x 240 mm².



Measuring adapters

- Transformation ratio 250/5 A, 400/5 A and 600/5 A.
- Class of accuracy 0.5; 0.5S and 1.
- Overcurrent number 5.



FUSE SWITCH-DISCONNECTORS OF VERTICAL DESIGN FSD00

- Fuse switch-disconnectors of vertical design are suitable for use in distribution and industrial LV switchboards with busbar spacing 100 or 185 mm.
- They are intended for fuse-links with blade contacts size 000 and 00.
- Modular design.
- 3-pole or 1-pole control (additionally interchangeable).
- Cable outlet bottom or top.
- Mounting directly on the busbar by means of screws M8/10 Nm.
- Connecting sets for Cu/Al up to 95 mm².
- Design:
 - ...-FC with built-in connecting space cover.
- Design with built-in measuring current transformers:
 - ...-RM1 transformation ratio 100/5 A, power output 2.5 VA, class of accuracy 1.
 - ...-M1 transformation ratio 200/5 A, power output 3.75 VA, class of accuracy 1.
 - ...-M05 transformation ratio 200/5 A, power output 3.75 VA, class of accuracy 0.5.
 - ...-M05C with calibrated measuring transformer, transformation ratio 200/5 A, power output 3.75 VA, class of accuracy 0.5.

3-pole control with spacing 100 mm

I _n [A]	Type	Order code	Weight [kg]	Package [pcs]
160	FSD00-33K-F	OEZ:43472	1.181	1
	FSD00-33K-FC	OEZ:43473	1.212	1
	FSD00-33K-FC-RM1	OEZ:43474	1.612	1
	FSD00-33K-FC-M1	OEZ:43476	1.612	1
	FSD00-33K-FC-M05	OEZ:43475	1.612	1
	FSD00-33K-FC-M05C	OEZ:43477	1.612	1

1-pole control with spacing 185 mm

I _n [A]	Type	Order code	Weight [kg]	Package [pcs]
160	FSD00-31D-F	OEZ:43479	1.582	1
	FSD00-31D-FC	OEZ:43481	1.612	1
	FSD00-31D-FC-RM1	OEZ:43483	2.012	1
	FSD00-31D-FC-M1	OEZ:43487	2.012	1
	FSD00-31D-FC-M05	OEZ:43485	2.012	1
	FSD00-31D-FC-M05C	OEZ:43489	2.012	1

3-pole control with spacing 185 mm

I _n [A]	Type	Order code	Weight [kg]	Package [pcs]
160	FSD00-33D-F	OEZ:43480	1.622	1
	FSD00-33D-FC	OEZ:43482	1.652	1
	FSD00-33D-FC-RM1	OEZ:43484	2.052	1
	FSD00-33D-FC-M1	OEZ:43488	2.052	1
	FSD00-33D-FC-M05	OEZ:43486	2.052	1
	FSD00-33D-FC-M05C	OEZ:43490	2.052	1

Accessories

Connecting sets	CS-FS00-..	page D8
Connecting hooks	CS-FS00-3H	page D8
Adapters for busbar systems	OD-FS.00-.A	page D8
Locking insert	OD-FH123-VU	page D8
Remote signalling of cover position	OD-FH-SK	page D8
Connecting space cover	OD-FS..	page D9
Levers of 3-pole control	OD-FSD00-TL	page D9
Free place covers	OD-FSD00-KM.	page D9
Spare part	ND-FSD00-V1	page D9

FUSE SWITCH-DISCONNECTORS OF VERTICAL DESIGN FSD00

Specifications

Type			FSD00
Standards			IEC 60947-1 IEC 60947-3 EN 60947-1 EN 60947-3
Approval marks			  
Rated operating current		I_e	160 A
Rated operating voltage		U_e	AC/DC 690 V
Utilization category	FSD00-33K..	AC 400 V	AC-23B / 100 A
		AC 500 V	AC-22B
		AC 690 V	AC-21B
		DC 250 V	DC-21B
	FSD00-3.D..	AC 400 V	AC-23B
		AC 500 V	AC-22B
		AC 690 V	AC-22B / 100 A
		AC 690 V	AC-21B
	DC 250 V	DC-21B	
	Rated thermal current with fuse-link		I_{th}
Rated thermal current with disconnecting link ZP000		I_{th}	240 A
Rated frequency		f_n	40 ÷ 60 Hz
Rated insulation voltage		U_i	AC 1 000 V
Short-circuit resistance with fuse-link gG, AC 400 V			160 A / 120 kA
Rated conditional short-circuit current with fuse-links PNA (RMS)	I_{cc}	AC 400 V / 160 A	120 kA
		AC 500 V / 160 A	50 kA
Rated impulse withstand voltage		U_{imp}	8 kV
Fuse-link size			000 (00C), 00
Max. power losses of the fuse-link		P_v	12 W
Power losses at I_n without fuse-link		P_z	7 W
Overvoltage category for AC 690 V			III
Connection			
Connecting screw / cable lugs / busbars			M8 / max. $\varnothing$ 25 mm, max. width 25 mm
Torque			10 Nm
Remote signalling			
Max. voltage/current	U_{max}/I_{max}		AC 250 V / 5 A
			DC 250 V / 0,2 A
Operating conditions			
Electrical endurance	operating cycles		300 at 100 A
			200 at 160 A
Mechanical endurance	operating cycles		1 700
Degree of protection from front side, built-in device, cover closed			IP30
Degree of protection from front side, built-in device, cover opened or removed			IP20
Operating ambient temperature			-25 ÷ +55 °C
Working position			see page 13
Max. sea level			2 000 m
Pollution degree			3
Seismic resistance according to VE ŠKODA			8 ÷ 50 Hz / 3 g

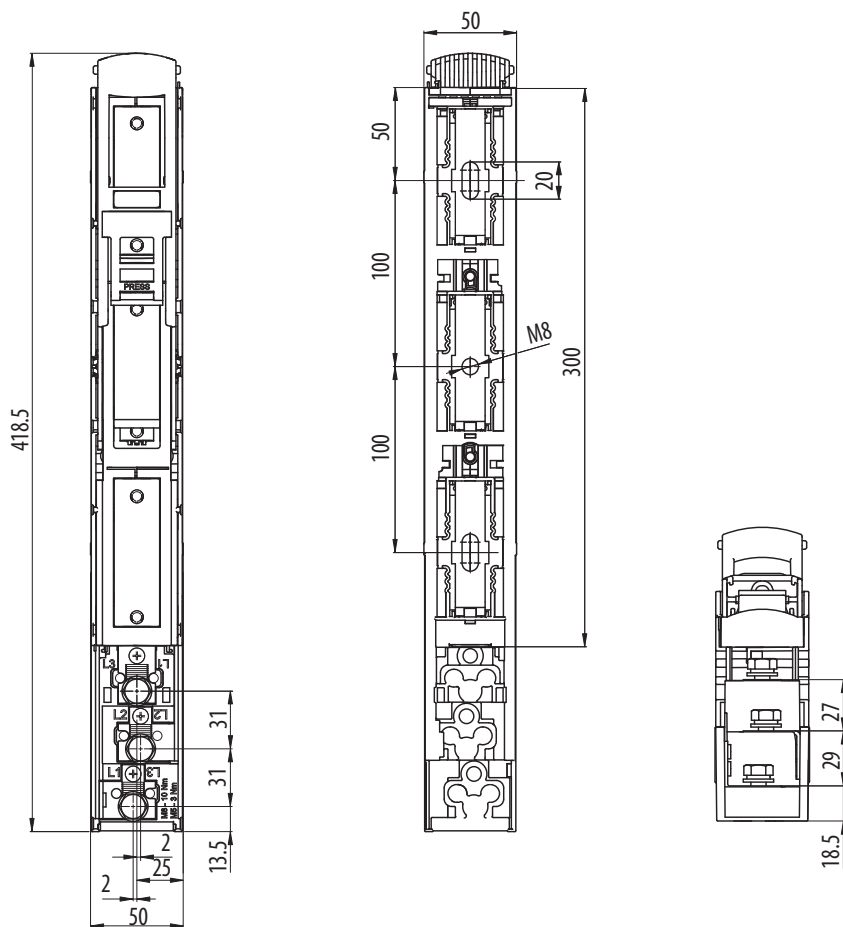
EN 60947-3 ed. 2/A2, p. C.5 Instructions for the use of 1-pole controlled devices states:

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

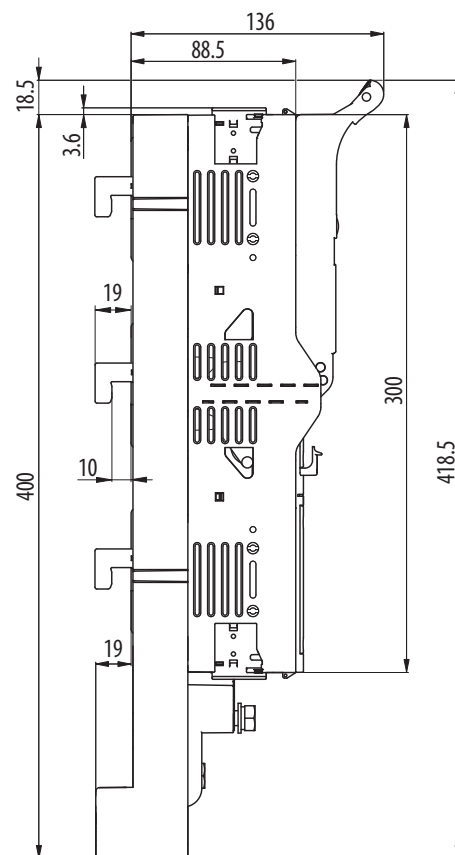
FUSE SWITCH-DISCONNECTORS OF VERTICAL DESIGN FSD00

Dimensions

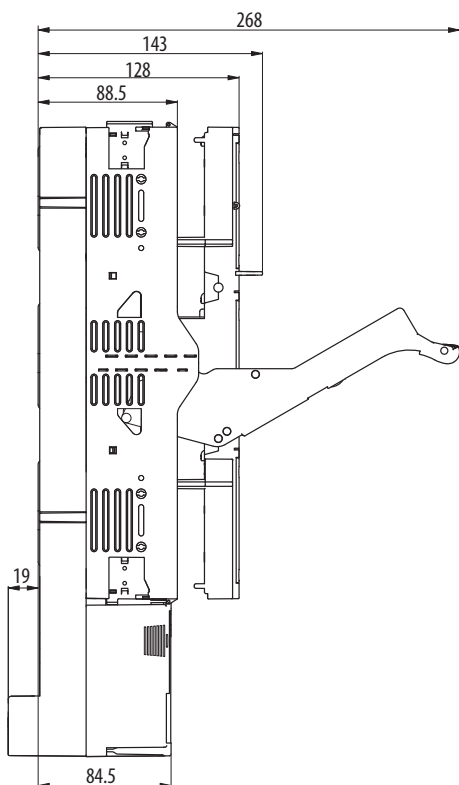
FSD00-33K-F



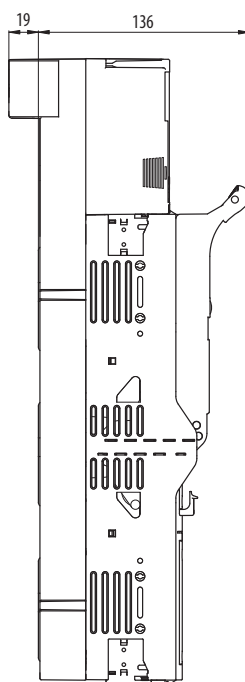
FSD00-33K-F + CS-FS00-3H



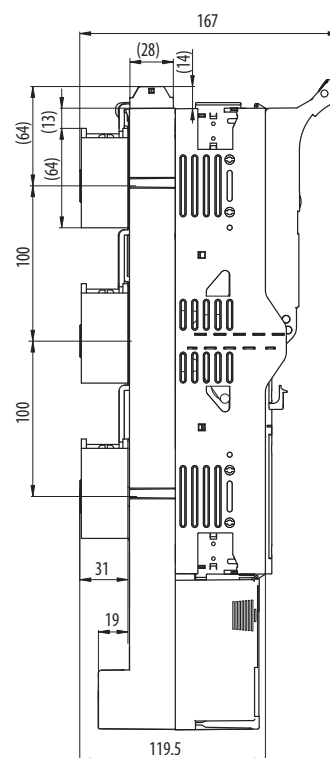
FSD00-33K-FC



FSD00-33K-FC
cable outlet top



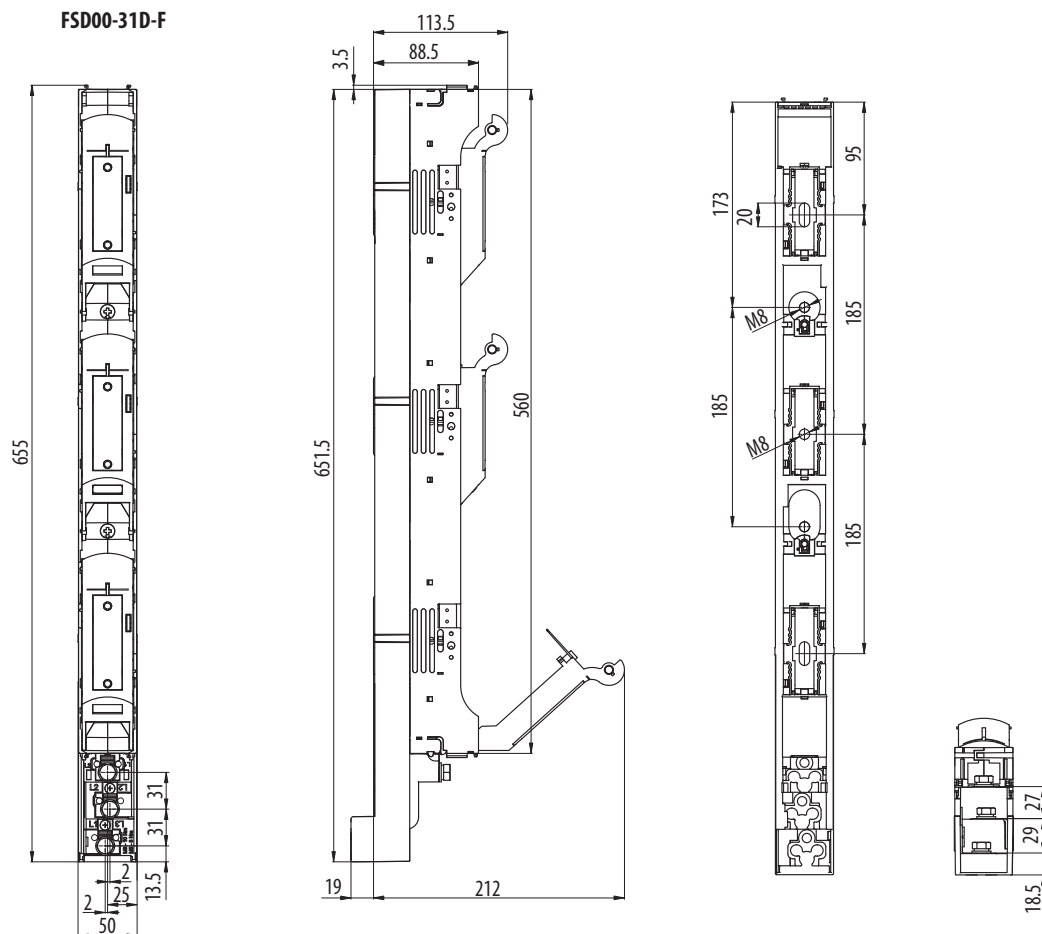
FSD00-33K-FC - M...



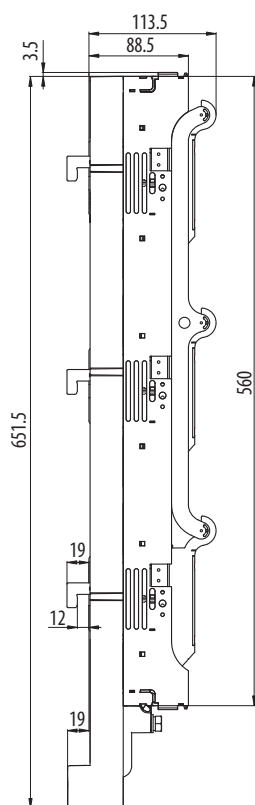
FUSE SWITCH-DISCONNECTORS OF VERTICAL DESIGN FSD00

Dimensions

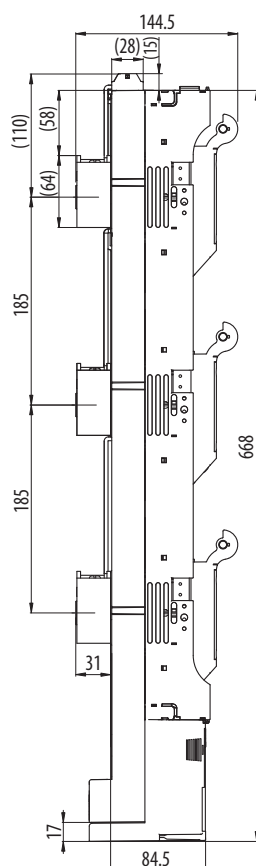
FSD00-31D-F



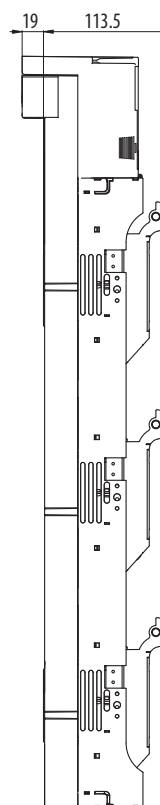
FSD00-33D-F + CS-FS00-3H



FSD00-31D-FC-M...



FSD00-31D-FC
cable outlet top



ACCESSORIES FOR FSD00



Connecting set up to 70 mm²

- Cross-section of Cu conductor 2.5 ÷ 70 mm².
- Torque 3 Nm.

Type	Order code	Description	Weight [kg]	Package [pcs]
CS-FS00-3S	OEZ:43425	clip terminal, 3 pcs	0.053	1



Connecting set up to 95 mm²

- Cross-section of Cu/Al conductor 10 ÷ 95 mm².
- Torque 3 Nm.

Type	Order code	Description	Weight [kg]	Package [pcs]
CS-FS00-3P1	OEZ:43423	prismatic clamp, 3 pcs	0.110	1



Connecting hooks

- Busbar thickness 5 ÷ 12 mm.
- Busbar width 12 ÷ 32 mm.
- Torque 5 Nm.

Type	Order code	Description	Weight [kg]	Package [pcs]
CS-FS00-3H	OEZ:43421	package contains set of 3 pcs	0.102	1



Adapters for busbar systems

- Busbar spacing 185 mm.
- For connection of two fuse switch-disconnectors.
- Enable compensation of mounting depth in combination with FSD1, FSD2, FSD3.

Type	Order code	Description	Weight [kg]	Package [pcs]
OD-FSD00-KA	OEZ:43429	pro FSD00-33K-..	0.707	1
OD-FS00-DA	OEZ:43428	pro FSD00-3.D-..	0.730	1

Technical information see page D10



Locking insert

- For locking the switch-disconnector cover.
- Max. diameter of the padlock suspension loop is 4.5 mm.
- The padlock is not included in the delivery.

Type	Order code	Weight [kg]	Package [pcs]
OD-FH123-VU	OEZ:18230	0.006	1



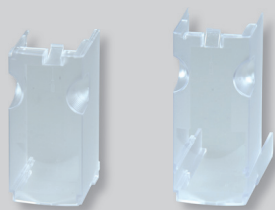
Remote signalling of cover position

- Indicates closed state.
- Cable length 1 m.
- Possibility of mounting up to 2 microswitches per one switch-disconnector.

Type	Order code	Weight [kg]	Package [pcs]
OD-FH-SK	OEZ:12929	0.031	1

Technical information see page D10

ACCESSORIES FOR FSD00



Connecting space covers

- Additional covering of outlet connecting space.

Type	Order code	Description	Weight [kg]	Package [pcs]
OD-FSD00-KPK	OEZ:43432	for FSD00-33K-..	0.062	1
OD-FSD00-KPD	OEZ:43426	for FSD00-33D-..	0.077	1

Extension cover

- It extends the cover of the connecting space by 80 mm.
- It is possible to connect more extension covers in series.
- Connecting space cover is applied OD-FS00-KP.

Type	Order code	Description	Weight [kg]	Package [pcs]
OD-FS00-DK	OEZ:43427		0.079	1

Compensation cover

- To compensate mounting height with FSD1, FSD2 and FSD3.
- Upper and lower set.

Type	Order code	Description	Weight [kg]	Package [pcs]
OD-FSD00-VK	OEZ:43433	for FSD00-33K-..	0.143	1

Lever of 3-pole control

- Change of the switch-disconnector control from 1-pole to 3-pole control.

Type	Order code	Description	Weight [kg]	Package [pcs]
OD-FSD00-TL	OEZ:43431	for FSD00-31D-..., 2 pcs	0.045	1

Free place covers

- Intended for covering of the switchboard free place between two switch-disconnectors.
- Width 50 mm.
- Delivered with free place cover clips.

Type	Order code	Description	Weight [kg]	Package [pcs]
OD-FSD00-KMK	OEZ:43434	for FSD00-33K-..	0.102	1
OD-FSD00-KMD	OEZ:43435	for FSD00-3.D-..	0.148	1

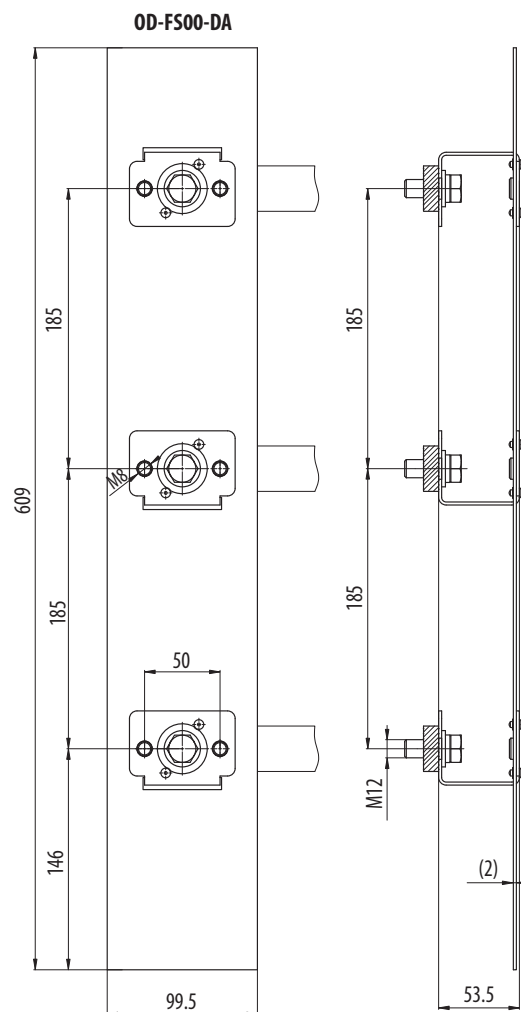
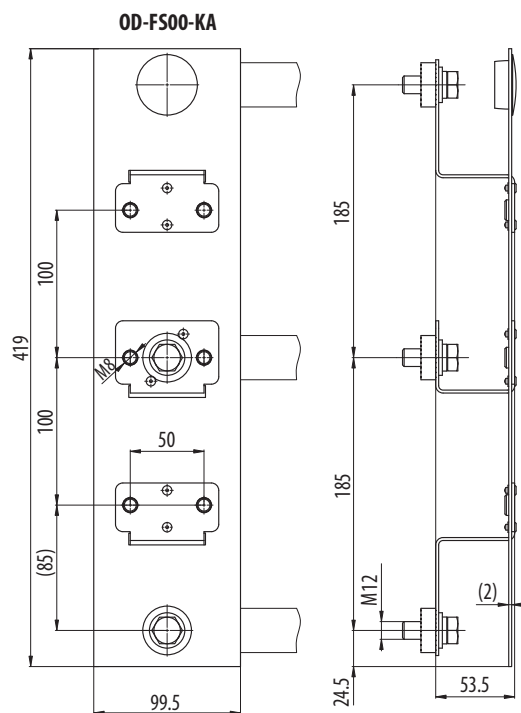
Spare part

- 1-pole cover.

Type	Order code	Description	Weight [kg]	Package [pcs]
ND-FSD00-V1	OEZ:43436	for FSD00-3.D-..	0.048	1

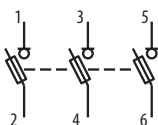
ACCESSORIES FOR FSD00

Dimensions



Diagram

FSD00-3..



Remote signalling of the fuse switch-disconnector cover position

State of contacts with open cover:
contacts C – NC closed

