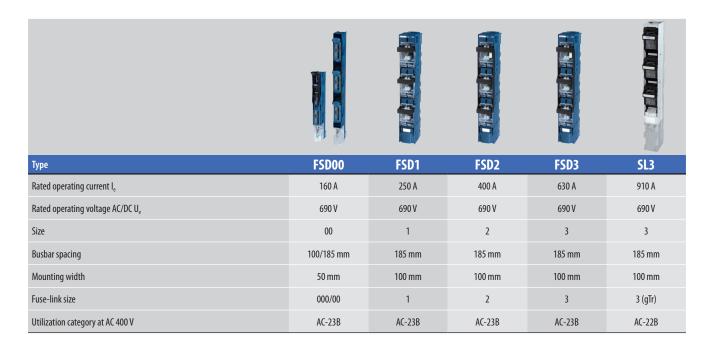
OEZ Varius

SUMMARY OF MODELS OF FUSE SWITCH-DISCONNECTORS OF VERTICAL DESIGN



Accessories				
Remote signalling of fuse-link state	-	OD-FSD123-S		-
Remote signallings 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 system with spacing 185 mm	OD-FS00A	-		-
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	FSD00-3FCM	MA1FS123		-

Description

Connecting hooks Adapter for parallel outlet Remote signallings of cover position Covers For cable outlet earthing. It indicates closed state. Busbar thickness $5 \div 12$ mm. It enables temporary Busbar width 12 ÷ 32 mm. connection of another outlet. For fuse adapter for parallel outlet HP-SE/L. With light indication of fuselink state. Adapter for busbar system with spacing 185 mm ■ It enables compensation **Locking inserts** of mounting depth in ■ For locking the switchcombination with disconnector cover. FSD1, FSD2, FSD3. Remote signalling of fuse-link state Delivered as set of microswitches, connecting cables and control levers. Conductors connected to the connector $0.5 \div 2.5 \text{ mm}^2$. **Connecting space covers** Additional covering of outlet connecting space. Levers of 3-pole control ■ Change of the switchdisconnector from 1-pole to 3-pole control. ■ For compensate mounting height of FSD00-33K with FSD1, FSD2, FSD3. **Measuring adapters** Transformation ratio 250/5 A, 400/5 A and 600/5 A. **Connecting sets** Class of accuracy 0.5; 0.5S and 1. Accessory for switch-disconnector Accessory for switch-disconnector Overcurrent number 5. FSD123. For connection of Cu/Al conductor For connection of Cu/Al conductor of cross-section up to 95 mm². of cross-section 2x 240 mm².

FUSE SWITCH-DISCONNECTORS OF VERTICAL DESIGN FSD00



FSD00-33K-FC



- Fuse switch-disconnectors of vertical design are suitable for using 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 conductors up to 95 mm².
- Devices are intended for uninterrupted operation.

- ...-F without built-in connecting space cover
- \ldots -FC with built-in connecting space cover.
- Desing 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

l _e	Туре	Order	Weight	Package
[A]		code	[kg]	[pcs]
	FSD00-33K-F	0EZ:43472	1.181	1
	FSD00-33K-FC	0EZ:43473	1.212	1
160	FSD00-33K-FC-RM1	0EZ:43474	1.612	1
160	FSD00-33K-FC-M1	0EZ:43476	1.612	1
	FSD00-33K-FC-M05	0EZ:43475	1.612	1
	FSD00-33K-FC-M05C	0EZ:43477	1.612	1

1-pole control with spacing 185 mm

l _e	Туре	Order	Weight	Package
[A]		code	[kg]	[pcs]
	FSD00-31D-F	0EZ:43479	1.582	1
	FSD00-31D-FC	0EZ:43481	1.612	1
160	FSD00-31D-FC-RM1	0EZ:43483	2.012	1
160	FSD00-31D-FC-M1	0EZ:43487	2.012	1
	FSD00-31D-FC-M05	0EZ:43485	2.012	1
	FSD00-31D-FC-M05C	0EZ:43489	2.012	1

3-pole control with spacing 185 mm

	l _e	Туре	Order	Weight	Package
	[A]		code	[kg]	[pcs]
	FSD00-33D-F	0EZ:43480	1.622	1	
	FSD00-33D-FC	0EZ:43482	1.652	1	
	FSD00-33D-FC-RM1	0EZ:43484	2.052	1	
	160	FSD00-33D-FC-M1	0EZ:43488	2.052	1
	FSD00-33D-FC-M05	0EZ:43486	2.052	1	
		FSD00-33D-FC-M05C	0EZ:43490	2.052	1

Accessories

OD-FH123-VU

CS-FS00-3H

OD-FH-SK

CS-FS00-3P1

Connecting sets	CS-FS00	page D8
Connecting hooks	CS-FS00-3H	page D8
Adapters for busbar systems	OD-FS.00A	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
Interchangeable cover	ND-FSD00-V1	page D9

OD-FS00-KPD

CS-FS00-3S

Specifications

Туре				FSD00
Standards				IEC 60947-1
				IEC 60947-3
				EN 60947-1
				EN 60947-3
Approval marks				® C € EHE
Rated operating current		l _e		160 A
Rated operating voltage		Ü.		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}		160 A
Rated thermal current with disconnecting link ZP000		I _{th}		240 A
Rated frequency		f.		40 ÷ 60 Hz
Rated insulation voltage		Ü,		AC 1 000 V
Short-circuit strength with fuse-link gG, AC 400 V		-1		160 A / 120 kA
Rated conditional short-circuit current with fuse-links PNA		I _{cc}	AC 400 V / 160 A	120 kA
(RMS)		-α	AC 500 V / 160 A	50 kA
Rated impulse withstand voltage		U _{imp}	7,000 7, 100 7.	8 kV
Fuse-link size		- imp		000 (00C), 00
Max. power losses of the fuse-link		P _v		12 W
Power losses at I _n without fuse-link		P,		7 W
Overvoltage category at AC 690 V		• 2		
Connection				
Connecting screws / cable lugs / busbars				M8 / max. Ø 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		1700
Rated duty				uninterrupted
Degree of protection from front side, built-in device, cover clo	sed			IP30
Degree of protection from front side, built-in device, cover ope				IP20
Operating ambient temperature				-25 ÷ +55 ℃
Working position				see page H3
Max. sea level				2 000 m
Pollution degree				3
Seismic resistance according to VE ŠKODA				8 ÷ 50 Hz / 3 g
According to standard EN 60947-3 ed 2/42 n C 5 Instructions	for the use of 1 no		tori	

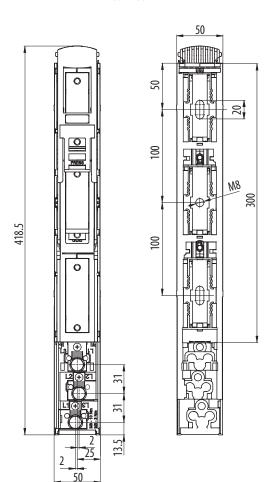
According to standard EN 60947-3 ed. 2/A2, p. C.5. Instructions for the use of 1-pole controlled device states:

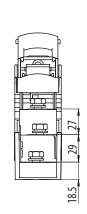
These devices are intended for distribution systems, with possible necessity of switching and/or safe disconnection of individual phases, and should not be used for switching a primary circuit of a three-phase equipment

Dimensions

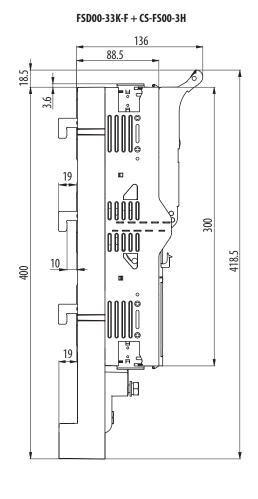
OEZ Varius

FSD00-33K-F

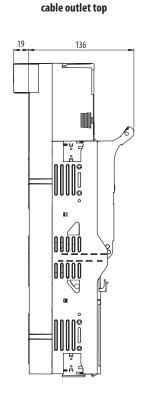


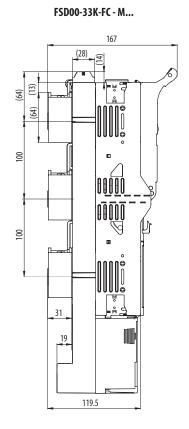


FSD00-33K-FC



FSD00-33K-FC 268 128 88.5



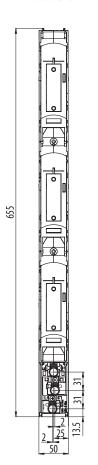


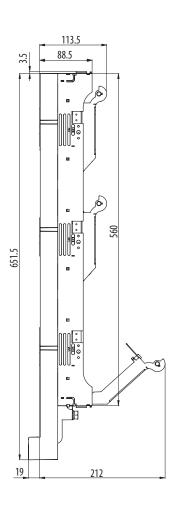
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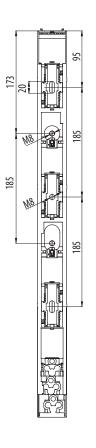
84.5

Dimensions

FSD00-31D-F



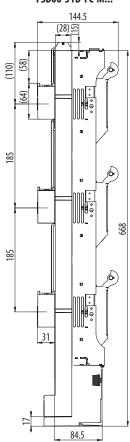




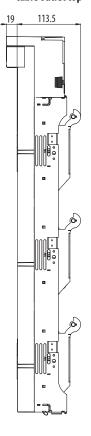


FSD00-33K-F + CS-FS00-3H

FSD00-31D-FC-M...



FSD00-31D-FC cable outlet top



ACCESSORIES FOR FSD00













Connecting set up to 70 mm²

- Cross-section of Cu conductor: $2.5 \div 70 \text{ mm}^2$.
- Torque 3 Nm.

Туре	Order	Description	Weight	Package
	code		[kg]	[pcs]
CS-FS00-3S	0EZ: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.

Туре	0rder	Description	Weight	Package
	code		[kg]	[pcs]
CS-FS00-3P1	0EZ:43423	prismatic clamp, 3 pcs	0.110	1

Connecting hooks

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

■ Torque 5 Nm.

Туре	Order	Description	Weight	Package
	code		[kg]	[pcs]
CS-FS00-3H	0EZ:43421	set of 3 pcs	0.102	1

Adapters for busbar systems

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

Туре	Order code	Description	Weight [kg]	Package [pcs]
OD-FSD00-KA	0EZ:43429	for FSD00-33K	0.707	1
OD-FS00-DA	0EZ:43428	for FSD00-3.D	0.730	1

Technical information see page D10

Locking insert

- For locking the switch-disconnector cover.
- Max. diameter of the padlock lifting lug is 4.5 mm.
- The padlock is not a part of delivery.

Туре	Order	Weight	Package
	code	[kg]	[pcs]
OD-FH123-VU	0EZ:18230	0.006	1

Remote signalling of cover position

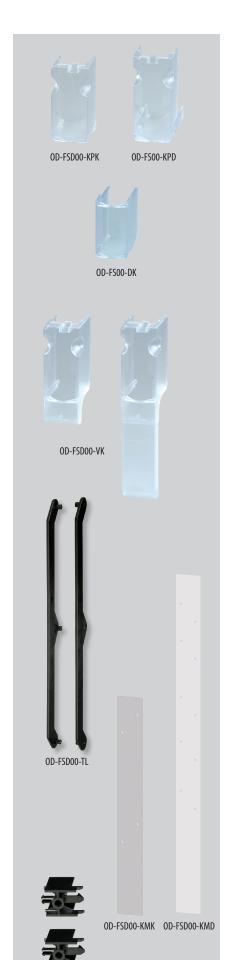
- It indicates closed state.
- Cable length 1 m.

Possibility of mounting up to 2 microswitches per one switch-disconnector.

Type	Order	Weight	Package
	code	[kg]	[pcs]
OD-FH-SK	0EZ:12929	0.031	1

Technical information see page D10





Connecting space covers

■ Additional covering of outlet connecting space.

Туре	Order	Description	Weight	Package
	code		[kg]	[pcs]
OD-FSD00-KPK	0EZ:43432	for FSD00-33K	0.062	1
OD-FS00-KPD	0EZ:43426	for FSD00-3.D	0.077	1

Extension cover

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

Туре	Order	Weight	Package
	code	[kg]	[pcs]
OD-FS00-DK	0EZ:43427	0.079	1

Compensation cover

■ It enables compensation of mounting heigth with FSD1, FSD2 and FSD3.

■ Upper and lower set.

Туре	Order	Description	Weight	Package
	code		[kg]	[pcs]
OD-FSD00-VK	0E7:43433	for FSD00-33K	0.143	1

Lever of 3-pole control

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

Туре	Order	Description	Weight	Package
	code		[kg]	[pcs]
OD-FSD00-TL	0EZ:43431	for FSD00-31D, 2 pcs	0.045	1

Free place covers

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

Туре	Order code	Description	Weight [kg]	Package [pcs]
OD-FSD00-KMK	0EZ:43434	for FSD00-33K	0.102	1
OD-FSD00-KMD	0EZ:43435	for FSD00-3.D	0.148	1

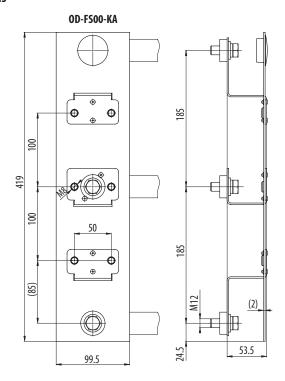
Interchangeable cover

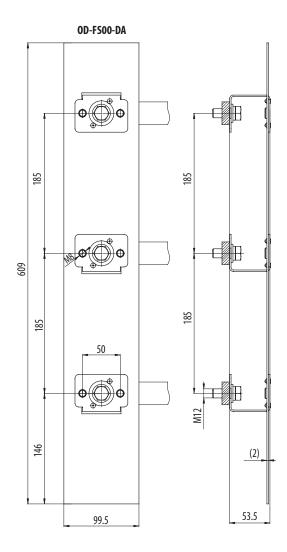
■ 1-pole cover.

Туре	Order	Description	Weight	Package
	code		[kg]	[pcs]
ND-FSD00-V1	0EZ:43436	for FSD00-3.D	0.048	1



Dimensions

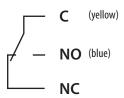




Diagram

Remote signalling of the fuse switch-disconnector cover position

Contact state with open cover: contacts C - NC closed



D10