## SUMMARY OF MODELS OF FUSE SWITCH-DISCONNECTORS OF VERTICAL DESIGN

|  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Type | FSDOO | FSD1 | FSD2 | FSD3 | SL3 |
| Rated operating current $\mathrm{I}_{\mathrm{e}}$ | 160 A | 250 A | 400 A | 630 A | 910 A |
| Rated operating voltage $A C / D C U_{e}$ | 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 <br> of fuse-link state |
| Remote signallings <br> of cover position |
| Connecting sets |
| Levers of 3-pole control |
| Adapters for busbar system |
| with spacing 185 mm |

## Description



FUSE SWITCH-DISCONNECTORS OF VERTICAL DESIGN FSDOO


- 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 $95 \mathrm{~mm}^{2}$.
- Devices are intended for uninterrupted operation.

Design:
...-F without built-in connecting space cover
...-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 $200 / 5 \mathrm{~A}$, power output 3.75 VA , class of accuracy 0.5 .

3-pole control with spacing 100 mm

| $I_{e}$ <br> $[A]$ | Type | Order <br> code | Weight <br> $[\mathrm{kg}]$ | Package <br> $[\mathrm{pcs}]$ |
| :---: | :--- | :--- | :---: | :---: |
|  | FSDOO-33K-F | OEZ:43472 | 1.181 | 1 |
|  | FSDOO-33K-FC | OEZ:43473 | 1.212 | 1 |
| 160 | FSDOO-33K-FC-RM1 | OEZ:43474 | 1.612 | 1 |
|  | FSDOO-33K-FC-M1 | OEZ:43476 | 1.612 | 1 |
|  | FSDOO-33K-FC-M05 | OEZ:43475 | 1.612 | 1 |
|  | FSD00-33K-FC-M05C | OEZ:43477 | 1.612 | 1 |

1-pole control with spacing 185 mm

| $I_{e}$ <br> $[A]$ | Type | Order <br> code | Weight <br> $[\mathrm{kg}]$ | Package <br> $[\mathrm{pcs}]$ |
| :---: | :--- | :--- | :---: | :---: | :---: |
| 160 | FSDOO-31D-F | OEZ:43479 | 1.582 | 1 |
|  | FSDOO-31D-FC | OEZ:43481 | 1.612 | 1 |
|  | FSDOO-31D-FC-RM1 | OEZ:43483 | 2.012 | 1 |
|  | FSDOO-31D-FC-M1 | OEZ:43487 | 2.012 | 1 |
|  | FSDOO-31D-FC-M05 | OEZ:43485 | 2.012 | 1 |
|  | FSD00-31D-FC-M05C | OEZ:43489 | 2.012 | 1 |

3-pole control with spacing 185 mm

| $\begin{aligned} & \mathrm{I}_{\mathrm{e}} \\ & {[\mathrm{~A}]} \\ & \hline \end{aligned}$ | Type | Order <br> code | Weight [kg] | Package [pss] |
| :---: | :---: | :---: | :---: | :---: |
| 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 |
|  | FSDO0-33D-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 |
| Interchangeable cover | ND-FSD00-V1 | page D9 |

## Specifications



[^0]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



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


SD00-33K-FC cable outlet top


## Dimensions

FSDOO-31D-F


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


FSDOO-31D-FC-M...



FSD00-31D-FC cable outlet top


## ACCESSORIES FOR FSDOO



Connecting set up to $70 \mathrm{~mm}^{2}$
■ Cross-section of Cu conductor: $2.5 \div 70 \mathrm{~mm}^{2}$.

- Torque 3 Nm .

| Type | Order <br> code | Description | Weight <br> $[\mathrm{kg}]$ | Package <br> $[\mathrm{pcs}]$ |
| :--- | :---: | :--- | :---: | :---: |
| $\mathbf{C S - F S O O - 3 S}$ | OEZ:43425 | clip terminal, 3 pcs | 0.053 | 1 |

## Connecting set up to $95 \mathrm{~mm}^{2}$

■ Cross-section of Cu/Al conductor: $10 \div 95 \mathrm{~mm}^{2}$.
■ Torque 3 Nm .

| Type | Order <br> code | Description | Weight <br> $[\mathrm{kg}]$ | Package <br> $[\mathrm{pcs}]$ |
| :--- | :---: | :--- | :---: | :---: |
| CS-FS00-3P1 | 0EZ:43423 | prismatic clamp,3 pcs | 0.110 | 1 |

## Connecting hooks

- Busbar thickness $5 \div 12 \mathrm{~mm}$.

Torque 5 Nm .

- Busbar width $12 \div 32 \mathrm{~mm}$.

| Type | Order <br> code | Description | Weight <br> $[\mathrm{kg}]$ | Package <br> $[\mathrm{pcs}]$ |
| :--- | :---: | :---: | :---: | :---: |
| $\mathbf{C S - F S O O - 3 H}$ | OEZ: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

| Type | Order <br> code | Description | Weight <br> $[\mathrm{kg}]$ | Package <br> [pcs] |
| :--- | :---: | :---: | :---: | :---: |
| OD-FSDOO-KA | OEZ:43429 | for FSDOO-33K-.. | 0.707 | 1 |
| OD-FS00-DA | OEZ:43428 | for FSD00-3.D-.. | 0.730 | 1 |

Technical information see page D10

## Locking insert

- For locking the switch-disconnector cover.

The padlock is not a part of delivery.

- Max. diameter of the padlock lifting lug is 4.5 mm .

| Type | Order <br> code | Weight <br> $[\mathrm{kg}]$ | Package <br> $[\mathrm{pcs}]$ |
| :--- | :---: | :---: | :---: |
| $\mathbf{O D - F H 1 2 3 - V U ~}$ | 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

Type

| Type | Order <br> code | Weight <br> $[\mathrm{kg}]$ | Package <br> [pcs] |
| :--- | :---: | :---: | :---: |
| OD-FH-SK | 0EZ:12929 | 0.031 | 1 |

Technical information see page D10


## Connecting space covers

- Additional covering of outlet connecting space.

| Type | Order <br> code | Description | Weight <br> $[\mathrm{kg]}$ | Package <br> [pcs] |
| :--- | :---: | :---: | :---: | :---: |
| OD-FSD00-KPK | OEZ:43432 | for FSD00-33K-.. | 0.062 | 1 |
| OD-FSOO-KPD | OEZ:43426 | for FSDOO-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- FSOO- KP.

| Type | Order <br> code | Weight <br> $[\mathrm{kg}]$ | Package <br> $[\mathrm{pcs}]$ |
| :--- | :---: | :---: | :---: |
| $\mathbf{O D - F S O O - D K}$ | OEZ:43427 | 0.079 | 1 |

## Compensation cover

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

| Type | Order <br> code | Description | Weight <br> $[\mathrm{kg}]$ | Package <br> $[\mathrm{pcs}]$ |
| :--- | :---: | :---: | :---: | :---: |
| OD-FSD00-VK | 0EZ:43433 | for FSD00-33K-.. | 0.143 | 1 |

## Lever of 3-pole control

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

| Type | Order <br> code | Description | Weight <br> $[\mathrm{kg}]$ | Package <br> $[\mathrm{pcs}]$ |
| :--- | :---: | :--- | :---: | :---: |
| $\mathbf{O D - F S D 0 0 - T L ~}$ | 0EZ:43431 | for FSD00-31D-..,2 2 | 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.

| Type | Order <br> code | Description | Weight <br> $[\mathrm{kg]}$ | Package <br> [pcs] |
| :--- | :---: | :---: | :---: | :---: |
| OD-FSDOO-KMK | OEZ:43434 | for FSDOO-33K-.. | 0.102 | 1 |
| OD-FSD00-KMD | 0EZ:43435 | for FSDO0-3.D-.. | 0.148 | 1 |

## Interchangeable cover

- 1-pole cover.

| Type | Order <br> code | Description | Weight <br> $[\mathrm{kg}]$ | Package <br> $[\mathrm{pcs}]$ |
| :--- | :---: | :---: | :---: | :---: |
| ND-FSD00-V1 | 0EZ:43436 | for FSD00-3.D-.. | 0.048 | 1 |

## Dimensions



## Diagram

FSDOO-3..


## Remote signalling of the fuse switch-disconnector cover position

Contact state with open cover:
contacts C-NC closed



[^0]:    According to standard EN 60947-3 ed. 2/A2, p. C.5. Instructions for the use of 1-pole controlled device states:

