

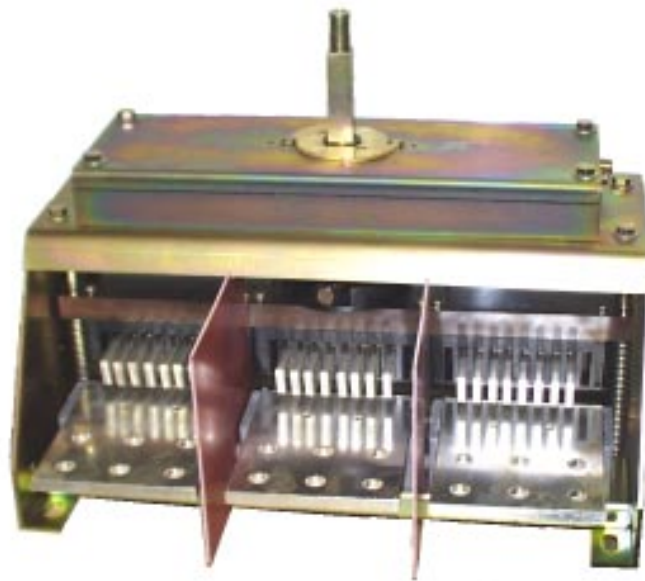
# Load Break Isolators

## 3- and 4-poles

### front operated

### FWA - Series

1600 - 4000 Amps



Other Products:

OFF-Load Disconnectors 1- to 4-poles

ON-Load Disconnectors 1- to 4-poles

Load Changeover Switches 3- and 4-poles

Tap Changers

Special designed switches acc. to customers requirement

# Sandner Schalt- und Systemtechnik GmbH

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## Load Break Isolators 3- and 4-poles

front operated

1600 - 4000 Amps

FWA - Series

### APPLICATION

These switches are designed as distribution switches, bus couplers and consumer switches, as well as isolators and main incoming switches in

- Distribution Boards
- Control Panels
- MCC - Motor Control Centres

The standard switches have an utilization category of AC22 (switching of mixed resistive and inductive loads, including moderate overloads) with through fault capability.

### DESCRIPTION

The load break switches have been developed to meet the requirements of present and future applications with reliability and security.

### Contacts and operation

The contacts are manufactured from high conductivity copper, silver plated, and meet the requirements of DIN 46206.

The contacts are self cleaning and are fitted with strong springs to ensure high contact pressures, thus enabling the switches to withstand high dynamic and thermal stresses under overload and fault conditions. The moving contacts are mechanically connected to the operating shaft ensuring forced separation of the contacts.

### Terminals

For ease of connection of bare cables the switches can be supplied with frame or cage terminals.

### Operation

The range of load break switches have a smooth

operation action with built-in lost motion, making the speed of operation independent of the operator. All switches have square steel operation shafts with a 90 degree switching motion.

The contact gaps of the switch, when in the OFF position, are greater than required by VDE 0110.

### STANDARDS, REGULATIONS

EN 60947-3

IEC 947-1

IEC 947-3

IEC 408

VDE 0660

VDE 0107

### SPECIAL FEATURES

- Modern technology
- High quality components
- Compact dimensions
- Modular system
- High electrical performance
- Safe operation
- Forced opening and closing of contacts
- Special sliding contact system
- Arc and track resistant mouldings
- Easy assembly in switchboards

### SWITCH OPTIONS

**Load Break Isolators, Type FWA**

Supplied with: Black handle, Duty AC 22

**Load Break Isolators, Type FWA-HLD-QM**

Supplied with: Black handle, Duty AC 22

### ORDERING DETAILS

Type \_\_\_\_\_ FWA 250 / 3 - SO  
 Rated Current  $I_u$ : 10 \_\_\_\_\_  
 No. of Poles \_\_\_\_\_  
 Special Design \_\_\_\_\_

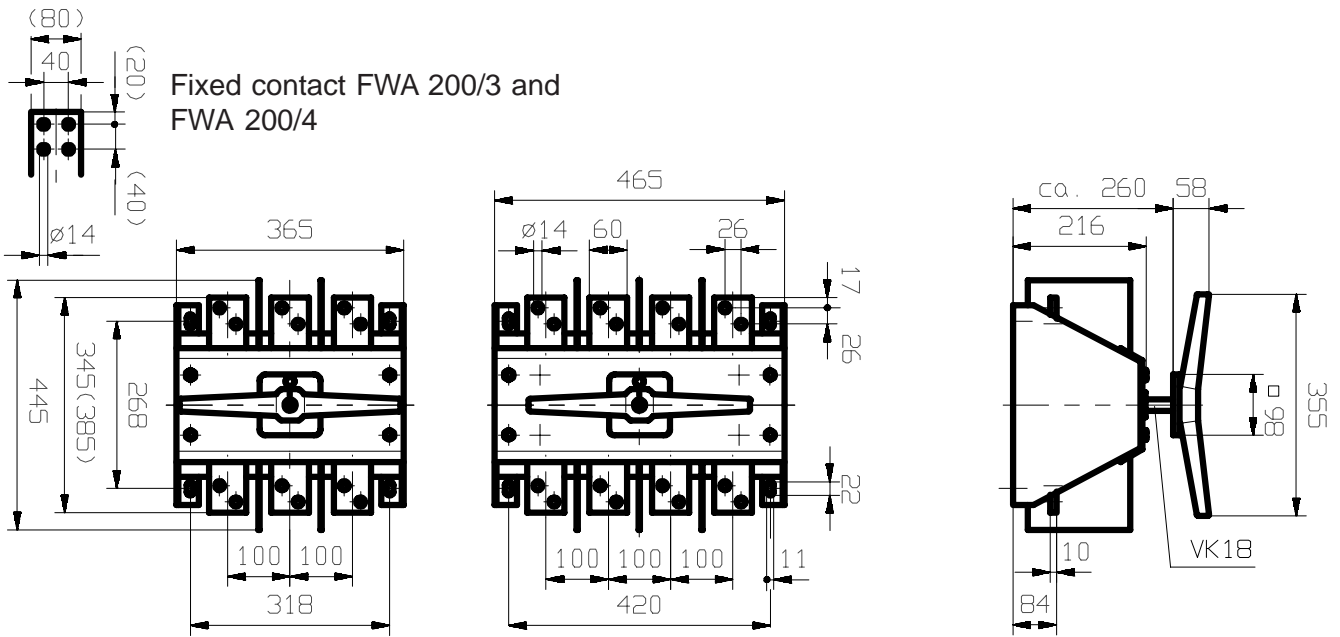
Art.-No.	Type	No. of poles	$I_u$	$I_e$ / AC22 400V	Weight kg	Fixing screw	Dimension of enclosure (recommended): H (Height) x B (Width) x T (Depth)
110930	FWA 160/3	3	1600	1600	13,5	2xM12	800 x 600 x 300 mm
110940	FWA 160/4	4	1600	1600	13,8	2xM12	800 x 600 x 300 mm
111030	FWA 200/3	3	2000	2000	32,5	4xM12	800 x 600 x 300 mm
111040	FWA 200/4	4	2000	2000	33,0	4xM12	800 x 600 x 300 mm
111130	FWA 250/3	3	2500	2500	48,0	6xM12	1000 x 1000 x 300 mm
111140	FWA 250/4	4	2500	2500	52,0	6xM12	1000 x 1000 x 300 mm
111230	FWA 315/3	3	3150	3150	49,0	6xM12	1000 x 1000 x 300 mm
111240	FWA 315/4	4	3150	3150	53,0	6xM12	1000 x 1000 x 300 mm
111330	FWA 400/3	3	4000	4000	65,0	8xM12	1200 x 1200 x 300 mm
111340	FWA 400/4	4	4000	4000	72,0	8xM12	1200 x 1200 x 300 mm

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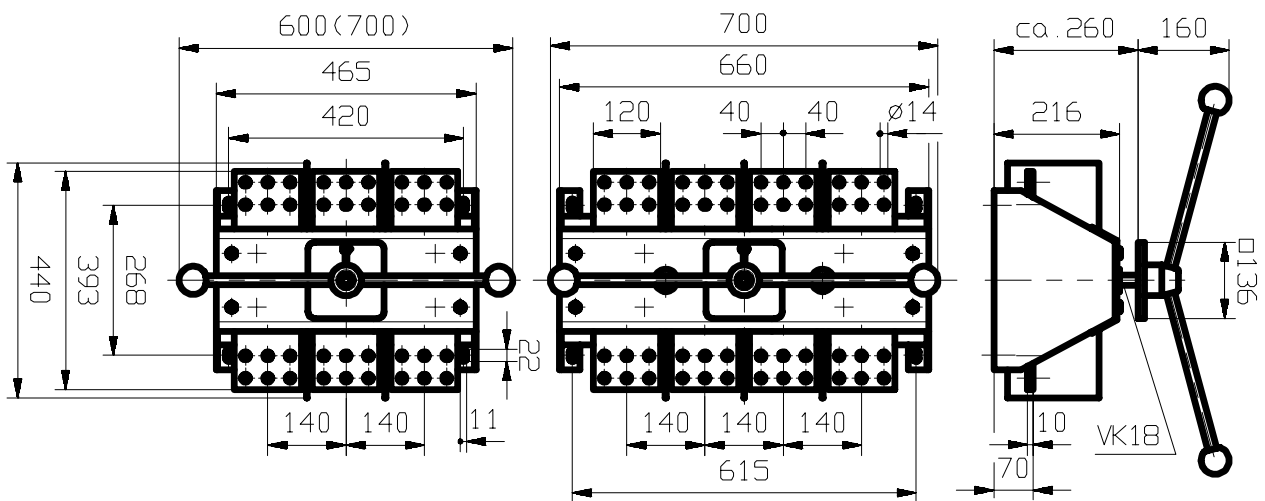
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FWA 160/3 - FWA 160/4 - FWA 200/3 - FWA 200/4



FWA 250/3 - FWA 250/4 - FWA 315/3 - FWA 315/4

Dimensions FWA 400/3 and FWA 400/4 on request.