

# Fixed capacitors

# multicab-F

Monitoring



Optimizing



**multicab-F** fixed capacitors compensate the inductive reactive power directly at the place it occurs, which relieves the supply lines considerably. Fixed capacitors are used for consumers with relatively large power, such as transformers and motors.

**multicab-F ... SWSH**

Detuned fixed capacitor with a capacitor rated voltage of 525 V and reactor factors of 12.5 and 14 %. Standard version in sheet steel wall cabinet.



# multicab-F

Power

**5 – 60 kvar**

Facility cabinet\*  
(H x W x D in mm)

**S1 (600 x 600 x 350)**

**S2 (800 x 800 x 400)**



\* Steel sheet wall cabinet, standard version without base

## Detuned capacitors (wall cabinet)

### Highlights

- Power from 5 to 60 kvar
- Reactor factors 5.5, 7 or 8 % and 12.5 or 14 %
- Capacitor rated voltage with 440 V or 525 V
- Optional: Contactor and NH disconnector

An overall view of **technical details** can be found on page 5.  
The **housing dimensions** are listed on page 6

## Specifications multicab-F ... SWSH

**Facility with plug-in design** Reactor factors: **5.5, 7 or 8%** Capacitor rated voltage: **440 V**

POWER <sup>1</sup> in kvar	TYPE	CONSTRUCTION TYPE <sup>2</sup>	WEIGHT approx. in kg
5	multicab-F 005/01-1000- <b>XX</b> -SWSH	S1	45
10	multicab-F 010/01-1000- <b>XX</b> -SWSH	S1	47
12,5	multicab-F 012/01-1000- <b>XX</b> -SWSH	S1	51
15	multicab-F 015/01-1000- <b>XX</b> -SWSH	S1	52
20	multicab-F 020/01-1000- <b>XX</b> -SWSH	S1	53
25	multicab-F 025/01-1000- <b>XX</b> -SWSH	S1	59
30	multicab-F 030/01-1000- <b>XX</b> -SWSH	S1	65
40	multicab-F 040/01-1000- <b>XX</b> -SWSH	S1	70
50	multicab-F 050/01-1000- <b>XX</b> -SWSH	S1	70
60	multicab-F 060/01-1000- <b>XX</b> -SWSH	S2	95

## Specifications multicab-F ... SWSB

**Facility with plug-in design** Reactor factors: **12.5 or 14 %** Capacitor rated voltage: **525 V**

POWER <sup>1</sup> in kvar	TYPE	CONSTRUCTION TYPE <sup>2</sup>	WEIGHT approx. in kg
5	multicab-F 005/01-1000- <b>XX</b> -SWSB	S1	47
10	multicab-F 010/01-1000- <b>XX</b> -SWSB	S1	53
12,5	multicab-F 012/01-1000- <b>XX</b> -SWSB	S1	56
15	multicab-F 015/01-1000- <b>XX</b> -SWSB	S1	57
20	multicab-F 020/01-1000- <b>XX</b> -SWSB	S1	65
25	multicab-F 025/01-1000- <b>XX</b> -SWSB	S1	68
30	multicab-F 030/01-1000- <b>XX</b> -SWSB	S1	68
40	multicab-F 040/01-1000- <b>XX</b> -SWSB	S2	91
50	multicab-F 050/01-1000- <b>XX</b> -SWSB	S2	103
60	multicab-F 060/01-1000- <b>XX</b> -SWSB	S2	111

<sup>1</sup> Power at 400 V, 50 Hz <sup>2</sup> Measurement details and other details on the construction can be found on page 147

**XX = It is important that you state the reactor factor when ordering** (see also following order example).

Performances and sizes deviating from the standard are available on request. All changes reserved.

**Example for order:** Fixed capacitor, 20 kvar, 440 V capacitors, 7 % detuned with NH disconnecter and contactor.

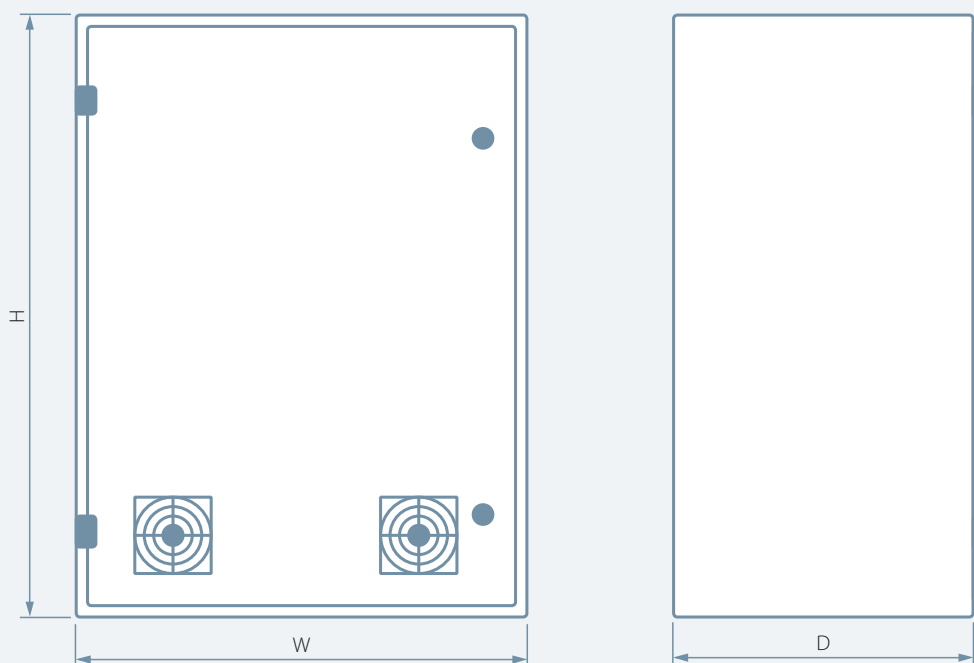
The appropriate ordering detail is as follows: **Type multicab-F 020/01-1000-07-SWSH-NH-LS.**

# multicab-F Technical details

DEVICE TYPE	multicab-F Fixed capacitors	
	SWSH p = 5.5, 7 or 8 %	SWSB p = 12.5 or 14 %
Rated voltage   Frequency	U <sub>n</sub> = 400 V   50 Hz	
Maximum permissible operating voltage	U <sub>n</sub> = 400 V ± 10 %	
Maximum permissible operating current	1.3 x I <sub>n</sub> permanently	
CAPACITORS	Low-loss <b>multicond-UHPC</b> power capacitors, MTK technology	
Capacitor rated voltage	U <sub>Meas.</sub> = 440 V	U <sub>Meas.</sub> = 525 V
Discharge of capacitors	Discharge resistors t < 60 s Optional discharge reactors t < 3 s	
FILTER CIRCUIT REACTORS	Linear filter circuit reactors to avoid resonances in networks with harmonics, built-in temperature monitoring	
Reactor factors	p = 5.5, 7 oder 8 %	p = 12.5 oder 14 %
HOUSING DESIGN	Steel sheet cabinet, painted inside and outside with color RAL 7035 (other colors on request), module plates galvanized	
Mode of protection	IP 20 (IP 54 on request), the components used correspond to BGV-A2	
AMBIENT TEMPERATURES	+ 40 °C highest value, briefly + 35 °C in 24-hour average + 20 °C in annual average – 10 °C lowest value	
OPTION: Back-up fuse additional NH	With NH disconnecter and NH fuses	
OPTION: Switch element additional LS	Capacitor switching contactors U <sub>control</sub> = 230 V, 50 Hz Control voltage transformer required if operating voltage deviates	
OPTION: Apparent current relay additional LSR	For automatic switchgear operation, connecting and disconnecting is done by contactor	

# multicab-F Dimensions

multicab-F  
Steel sheet wall cabinet (construction type S2)



CONSTRUCTION TYPE	HEIGHT (H) in mm	WIDTH (W) in mm	DEPTH (D) in mm
S1	600	600	350
S2	800	800	400

Standard version without NH disconnecter, without contactor.

All measurement details in mm. Not suitable for taking measurements.