

FP-COMB 63

3-phase Coupling / Decoupling Networks (CDN) for AXOS 5/8

IEC/EN 61000-4-4, IEC/EN 61000-4-5,
IEC/EN 61000-4-12, ANSI C62.41 & 62.45 etc.

- 3-Phase Coupling / Decoupling Network
- Surge Combination Wave, 1.2/50 μ s - 8/20 μ s
- Ring Wave, 100 kHz
- Electrical Fast Transient (EFT) / Burst
- 5 kV impulse voltage for Surge Combination Wave and Ring Wave
- 5 kV impulse voltage for EFT/Burst
- Line voltage 690 V AC / DC (Phase – Phase)
- 63 A EUT current per phase (depending on the voltage and frequency).



**For AXOS devices from
HAEFELY.**



Overview

The FP-COMB 63 coupling/decoupling network – for Surge Combination Wave, Ring Wave and EFT/Burst – is fully compliant with the standard requirements of IEC/EN 61000-4-4, IEC/EN 61000-4-5 and IEC/EN 61000-4-12.

The FP-COMB 63 is controlled by the AXOS 5 / AXOS 8 expandable immunity test system(s). The CDN automatically changes the coupling paths, phase angles and source impedance based on test parameters set by the user via the AXOS controller – depending on the standard and coupling mode.

The FP-COMB 63 was designed to reduce residual voltage levels at the EUT mains input by integrating the proper decoupling inductors for each type of CDN application in order to meet the requirements (with regard to voltage drop at the rated current). Apart from covering the EN/IEC 61000-4-5 standard, the FP-COMB 63 also covers tests to meet surge requirements outlined in ANSI/IEEE C62.41.

Key facts

- Phase angle synchronization for each coupling path
- All-in-one – Combined CDN for Surge, Ring Wave and EFT / Burst
- Easy to use – LEDs indicate active mode and coupling path
- Automatic selection of surge impedance
- Remote controlled via AXOS 5 / AXOS 8



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Technical data	
FP-COMB 63	
Coupling	
CDN Inputs	CEE-socket 690 V / 63 A 1 connector
CDN Outputs <i>(front panel)</i>	10 mm socket 5 connectors
Wave forms	
EFT/Burst	IEC / EN 61000-4-4, Ed. 3
Surge Comb. Wave	IEC / EN 61000-4-5, Ed. 3
Ring Wave	IEC / EN 61000-4-12, Ed. 3
Max. input voltage	
EFT / Burst	5 kV
Surge Comb. Wave	5 kV
Ring Wave	5 kV
Coupling path selection	automatic IEC and ANSI
Synchronization	10 V to 690 V
<i>Sync. On coupling path, output BNC rear panel</i>	input voltage 0° - 359°, step 1°
Decoupling	
Voltage AC	up to 690 V AC, 16.7 Hz, 50 / 60 Hz
Voltage DC	up to 690 V DC
Nominal current	63 A
Input voltage range	
EFT / Burst	0.2 kV – 5 kV
Surge Comb. Wave	0.2 kV – 5 kV
Ring Wave	0.2 kV – 5 kV
Coupling path selection	automatic
Synchronization	10 V to 690 V input voltage 0° - 359°, step 1°
Interface	
Extension Connector	Interface cable to AXOS <i>(37 pol. Sub-D connector)</i>
Display / LEDs	Coupling path Power ON CDN active, overtemp
General data	
Dimensions (WxDxH) <i>(incl. rollers, crane hook)</i>	552 x 852 x 1754 mm
Weight	243 kg

Options – 3-phase CDNs		
2490170	FP-EFT 32M	Manual 3-phase CDN for EFT/Burst 32 A / 690 V AC / 110 V DC
2495860	FP-EFT 100M2	Manual 3-phase CDN for EFT/Burst 100 A / 690 V AC / 110 V DC
2490430	FP-COMB 32	Auto. 3-phase CDN for Surge, Ring wave, EFT/Burst 32 A / 480 V AC/DC
2490700	FP-SURGE 32A	Auto. 3-phase CDN for Surge 32 A / 690 V AC/DC
2490180	FP-SURGE 100M2	Manual 3-phase CDN for Surge, 100 A / 690 V AC / 110 V DC

Scope of delivery
FP-COMB 63 / 690-1 (No. 2499990), AC mains cable (5 m) with CEE-Plug (gray)
1 x ground cable (3 m), 5 x EUT mains cable (3 m) 63 A with plug & open end
Surge cable to AXOS, EFT/Burst cable to AXOS, calibration certificate, user manual

All information regarding appearance and technical data correspond to the current state of development at the time of release of this data sheet. We reserve the right to make technical changes. 052309

