

Data Sheet 1.16/4

Harmonic Filter, Type WSK

Description

The harmonic filters are used for improving the sinusoidal waveform of the output voltage of AC test systems. The harmonic filters are a series resonant circuit, which are tuned to the 3rd, 5th or 7th harmonic wave of the operating frequency. The harmonic filters allow this tuning by switching to the right tap at the tapped reactance and by connecting it to the capacitors. The exact tuning depends on the grid conditions at customer site, the components of the test system and the load of the system. The harmonic filters are available for operating frequencies of 50 Hz and 60 Hz. This results in resonant frequencies of (150, 250 or 350) Hz or (180, 300 or 420) Hz. They are built into a switchgear cabinet (IP20) for easier installation. The harmonic filters are designed for continuous operation and are protected against overloading by a fuse.

Table 1: Operating conditions

Frequency	Hz	50 / 60
Temperature range	°C	5 ... 40
Daily mean temperature	°C	≤ 30
Relative humidity	%	≤ 90
Height above sea level	m	≤ 1000
Duty cycle		continuous operation

Table 2: Reference atmospheric conditions (according to IEC 60060-1: 2010)

Temperature	°C	20
Absolute pressure	hPa	1013
Absolute humidity	g/m ³	11

Table 3: Main parameters

Type	Rated current	Rated voltage	Length x Width x Height (approx.)	Weight (approx.)
	A	kV	mm	kg
WSK 6/0.4	6	0.4	¹⁾	15
WSK 30/0.5	30	0.5	740 x 425 x 450	90
WSK 30/1	30	1	1000 x 520 x 550	180
WSK 21/6	21	6	1250 x 1300 x 975	650

¹⁾ Built into existing switchgear cabinet

Type designation

WSK a/b

a = rated current in A

b = rated voltage in kV