



SH-H SHUNTS

Impulse Current Measuring
Shunt

Datasheet



HAEFELY

Current and voltage – our passion

General Description

These shunts are used for the measurement of impulse currents in high-voltage test labs. The wave shape of the measured current can be displayed on a HAEFELY highest resolution impulse analysing system HiAS 744. The shunts consist of a metal cylinder with coupling flanges and a coaxial measuring connector

The set of shunts type SH-H consist of Interchangeable low-inductive resistor-sleeves that can be built into the

metal cylinder. A set consists of one cage and three sleeves of 2, 5 and 10 Ohm. The standard repetition rate allows measuring impulse currents up to 250 A (voltage drop 500 V), and at reduced repetition rate up to 800 A are possible (voltage drop 1600 V)

Applications

- Impulse current measurement

Scope of Supply

Set of shunts SH H-S

- 1 Housing for the sleeves
- 3 Sleeves (2, 5, 10 Ω)
- 1 Termination resistor (LEMO) 75 Ω
- 2 Test reports (routine test: resistance measurement)

Individual shunts

- 1 Sleeve shunt (no cage included)

Technical Data

General			
Type	SH H 2	SH H 5	SH H 10
Rated voltage drop U_n	500 V	500 V	500 V
Max. voltage drop U_{max}	1000 V	1000 V	1000 V
Rated peak current I_n	250 A	100 A	50 A
Max. peak current I_{max}	500 A	200 A	100 A
Resistance R	2 Ω	5 Ω	10 Ω
Resistance Accuracy	$\pm 5\%$	$\pm 5\%$	$\pm 5\%$
Partial response time T_α	10 ns	10 ns	10 ns
Repetition rate at U_n / I_n	1 s	1 s	1 s
Repetition rate at U_{max} / I_{max}	4 s	4 s	4 s
Weight / shunt	1.5 kg		
Dimensions	H 115mm, W 70 mm, L 255 mm		
Accuracy on the resistance measurement	< $\pm 1\%$		
Accuracy at 8/20 μ s impulse currents	< ± 1		

Other available values	
SH-H-0.1	0.1 Ω
SH-H-0.2	0.2 Ω
SH-H-0.5	0.5 Ω
SH-H-1	1 Ω
SH-H-2	2 Ω
SH-H-3	3 Ω
SH-H-5	5 Ω
SH-H-10	10 Ω
SH-H-20	20 Ω

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HIGH VOLTAGE



INSTRUMENTS



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