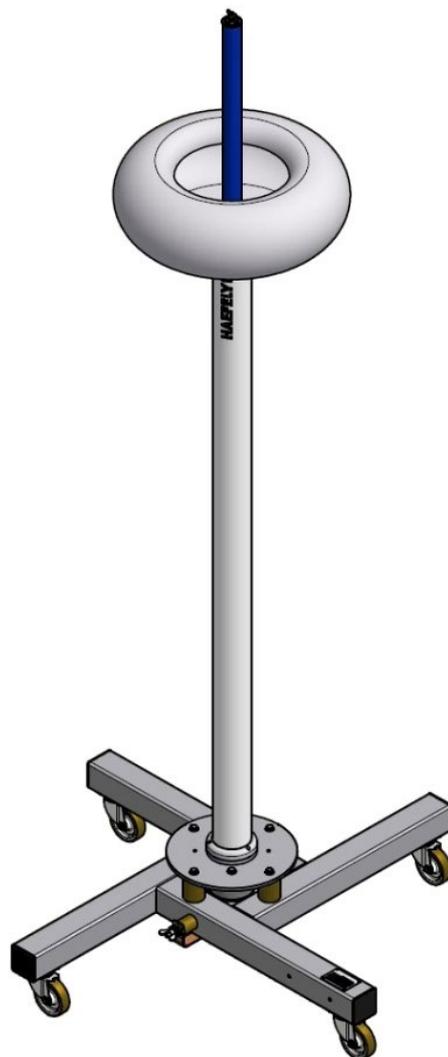




CS

Damped Capacitive Impulse Divider

Datasheet



HAEFELY

Current and voltage – our passion

General Description

Damped-capacitive impulse voltage dividers series CS are optimized for high dynamic behaviour and can be used to measure full and tail chopped lightning impulse voltages, switching impulses and AC voltages.

They meet all requirements of IEC 60060-2 in particular those with respect to measuring accuracy and step response. The divider can also serve as a base load for the impulse voltage generator.

They are designed for indoor operation.

Depending on the voltage rating, the high voltage part of the dividers consists of one or several oil-filled

capacitors which are housed in cylinders made from glass fiber reinforced epoxy resin.

For 600 kV and above rated lightning impulse voltages, the dividers are equipped with a toroidal high voltage electrode to guarantee corona-free operation.

The secondary unit consists of a capacitor and a damping resistor of low inductance both arranged in a coaxial design. The unit is fixed at the bottom of the divider and can easily be disassembled. The voltage divider is erected on a four-arm base equipped with castors

Technical data

Type	Rated impulse voltage L.I. 1.2 / 50 μ s kV	Rated impulse voltage S.I. 250 / 2500 μ s kV	Rated AC * voltage, 50/60 Hz, cont. duty kV RMS	Capacitance pF	Damping res. ext. Ω	Clearance to walls and ceiling m
CS 100-1000	100	100	50**	1000	130	1.5
CS 200-1000	200	200	50**	1000	130	1.5
CS 300-1000	300	280	50**	1000	130	1.5
CS 400-1000	400	320	100	1000	150	1.5
CS 500-500	500	400	70**	500	270	2.3
CS 600-500	600	500	140	500	270	2.3
CS 700-500	700	560	140	500	270	2.3
CS 800-670	800	650	210**	670	230	3.5
CS 900-670	900	700	210**	670	230	3.5
CS 1000-670	1000	750	300	670	230	3.5

* with adequate additional secondary part for AC voltage measurements type SEK W

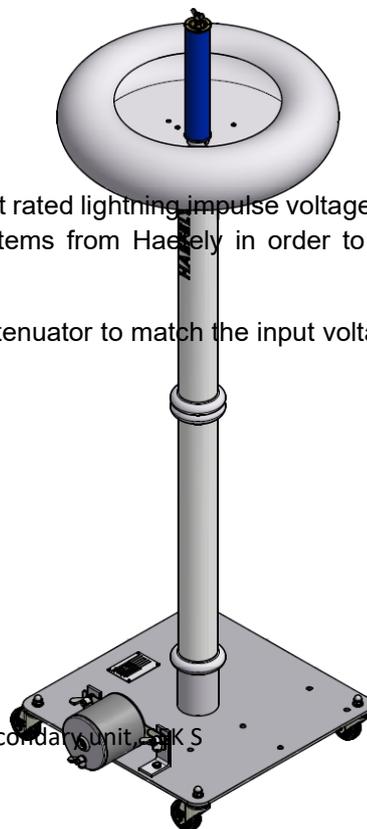
Technical data -Physical Dimensions

Type	Height	Base frame	Net weight	Gross weight sea	Shipping volume
	m	m	kg	kg	m3
CS 100-1000	1.4	0.6	43	85	0.3
CS 200-1000	1.4	0.6	43	85	0.3
CS 300-1000	1.4	0.6	43	85	0.3
CS 400-1000	1.4	0.6	43	85	0.3
CS 500-500	2.2	0.6	50	130	1.0
CS 600-500	2.2	0.6	56	130	1.0
CS 700-500	2.2	0.6	56	130	1.0
CS 800-670	3.5	1.0	85	350	1.5
CS 900-670	3.5	1.0	85	350	1.5
CS 1000-670	3.6	1.5	117	350	1.5

**HV units can be configured in different sizes and capacitances

Divider ratio is designed to achieve an output voltage of approx. 1400 V at rated lightning impulse voltage. This value was chosen as the standard input voltage for impulse measuring systems from Haeely in order to reduce the influence of electromagnetic interferences.

Upon request the dividers can be supplied with other ratios or with an attenuator to match the input voltage of other measuring devices.



CS 700 with Secondary unit, SK S

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HIGH VOLTAGE

INSTRUMENTS

EMC

precision.
swiss made.