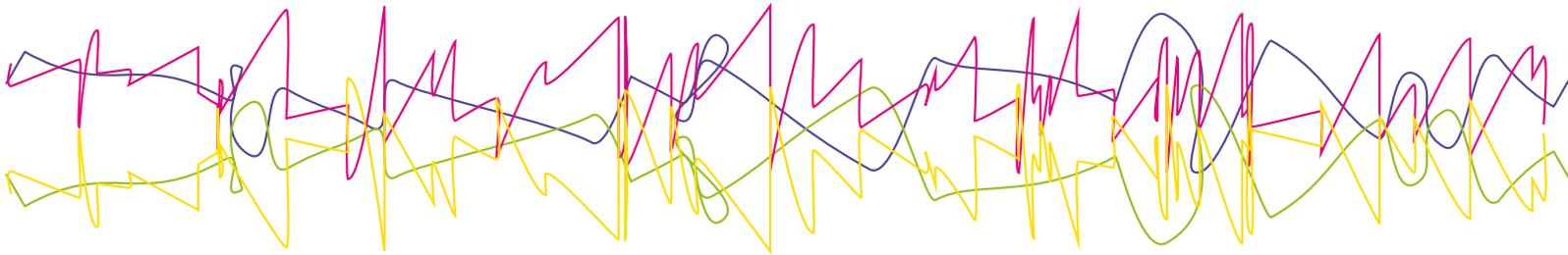


Specification of the CURACC

Accuracy makes the difference



Main characteristics

Rated input current (I_{PN})	up to ± 6000 A (customer defined)
Permissible overcurrent ¹ (10 s)	115 % of I_{PN}
Permissible overcurrent (0.1 s)	1000 % of I_{PN}
Output transfer ratio	1 A at I_{PN}
Output load	$< 2 \Omega$ (burden resistor at I_{PN})
Output max.	1.3 A
Output impedance	$> 10 M\Omega$
Output rise/fall time (10...90 % of step height)	$< 4 \mu s$
Small signal bandwidth ² (5 % of I_{PN})	500 kHz (-3 dB)
Output noise ³ (related to I_{PN})	
BW = 10 Hz	$< 0.05 \text{ ppm}_{RMS}$
BW = 100 Hz	$< 0.3 \text{ ppm}_{RMS}$
BW = 10 kHz	$< 1 \text{ ppm}_{RMS}$
Output offset error at 23 °C (related to I_{PN})	$< 5 \text{ ppm}$ (delivery figure, adjustable at site)
Offset drift (TC)	$< 0.05 \text{ ppm/K}$
Offset error versus time	$< 0.5 \text{ ppm/year}$
Offset error versus supply voltage	$< 0.1 \text{ ppm}$ (for 5 % change in supply voltage)
Offset error versus external magnetic field ($< 5 \text{ mT}$)	$< 1 \text{ ppm/mT}$ (DC-field)
Linearity error (related to actual I_p)	$< 2 \text{ ppm}$
Distance (E) return bar to measuring head	$E \text{ (mm)} > 50 * I_p$ (I_p in kA)
Induced voltage into a 1-turn primary busbar	$< 0.4 \text{ mV}_{pp}$

¹Above 115% the measuring head might saturate, resulting in an undefined output value

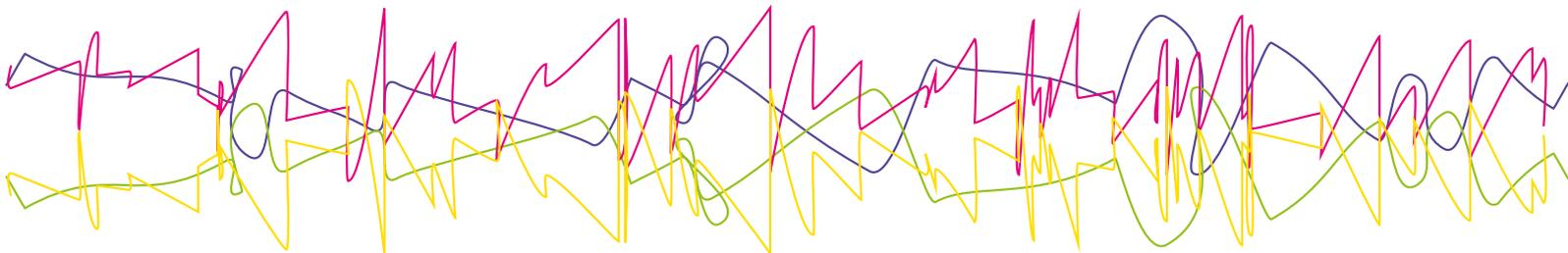
² Full power bandwidth 1kHz. Derate from 100% at 1kHz to 5% at 20kHz.

³ The noise peak-to-peak value approx. is 5 times the RMS-value



Specification of the CURACC

Accuracy makes the difference



General data

Supply voltage ($\pm 10\%$)	230 Vac - 1 ph - 50 Hz (alternative ± 24 , ± 32 or ± 40 V _{DC})
Power consumption at I _{PN}	< 80 VA (max. 50 W if DC-supplied)
Output valid indicator (lit at normal operation)	LED (green)
Output valid signal (closed at normal operation)	Relay contact (I _{MAX} = 0.5 A, V _{MAX} = 60 V)
Zero current indicator (lit if I _p < 0.1 % of I _{PN})	LED (green)
Zero current signal (closed if I _p < 0.1 % of I _{PN})	Relay contact
Ambient operating temp. electronics / measuring head	10 ... 40 °C / 0 ... 55 °C
Relative Humidity (operating)	20 ... 80 % (non condensing)
Ambient storage temperature	0 ... 55 °C
Relative Humidity (storage)	20 ... 80 % (non condensing)
Pollution degree	2

