CIS Current Integrated Source

ISO 9001:2008

Features:

- Broad range of output currents
- Broad range of allowable loads
- High accuracy and stability
- Low harmonic distortion
- Multilevel protection system
- Integrated Digital Signal Generator
- Generation of harmonics

The CIS Current Integrated Source is a single-phase alternating current source, designed for use in electricity meter testing systems and in laboratories. The output current is isolated and independent of mains voltage.

The power stage of the source utilizes the Power Width Modulation (PWM) technology, which ensures high efficiency and thus contributes very small heat losses. The stage is driven by an onboard Digital Signal Generator. The control signal may be composed of harmonics of independently defined amplitudes and phases. The internal feedback loop utilizes the DSP technology. Advanced algorithms applied ensure high stability of amplitude and phase angle as well as low distortions of the output current over a full range of allowable loads of various characters.

A multilevel protection system implemented protects the source against overload, open circuit, overheat and makes operation of the device reliable and safe.

The CIS device is equipped with an isolated serial interface and can be operated by a PC or other controlling device (host). A number of sources can be synchronized and operated together to form a poly-phase system. The communication protocol is provided to control output settings as well as to access all internal registers.

The CIS Current Integrated Source is accommodated in a 19 inch plug-in case.

	CIS-600	CIS-1600	CIS-3000
Technology of the power stage	PWM with digital feedback loop		
Output current range*	1mA ÷ 120 A		
Output power for linear loads*	600 VA	1600 VA	3000 VA
Output current stability	<< 0.005% (integration time 150 s)		
Total Harmonic Distortion (THD)	< 0.3%		
Efficiency of the power stage	> 85%		
Frequency of the fundamental component*	45 Hz ÷ 65 Hz		
Phase angle**	0° ÷ 360°		
Harmonics	user programmable		
Control	isolated RS422/RS232		
Dimensions (H x W x D)	170x440x600mm	300 x 440 x 600 mm	
Dimensions (H x W x D) with front panel and rear connectors	174x484x750mm	307 x 484 x 750 mm	

*) other values available on request
**) for poly phase systems

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