



POWER CHOKES TEST SYSTEM IND2000 SERIES

TEST SYSTEM FOR 1-PHASE AND 3-PHASE POWER CHOKES

The flexible test systems are ideal for the complete routine test of power chokes according to IEC61558-20-2.

It offers an AC sine current inductance measurement as well as an pulse current saturation measurement to allow a full characterization of the choke.

All test steps are performed after a single connection whereby a high efficiency and safety is achieved. Automatic testing with test plans for every product and automatic test certificate generation speed up the testing process and improve quality. Our multilingual testing software allows comfortable operation of the whole test system.

The system is equipped with extensive engineered safeguards according to EN50191 to prevent users from dangerous electrical voltages. The modular concept of the system is future-proof and allows future expansions.

APPLICATIONS

- Routine test of power chokes

TEST STEPS

- Inductance with sine voltage
- Inductance with pulse voltage
- Winding resistance measurement
- AC High voltage test
- Surge voltage test
- PE conductor test
- Insulation resistance test

KEY FEATURES

- PC controlled test system
- Comfortable, multilingual software for operation
- Free configurable test flow
- Saturation test with up to 4000A
- Sine inverter power supply
- AC test current up to 1000A
- Safety according to EN50191

KEY BENEFITS

- Quick testing – high throughput
- One time connection for all tests
- Easy and safe operation
- Several reporting and traceability functions
- Test and error statistics
- Adaptions to individual requirements possible

TECHNICAL SPECIFICATIONS

POWER CHOKE TEST SYSTEM IND2000 SERIES PLATFORM

Model	IND2000	IND2100	IND2200	IND2400
Output power	Impulse only	10kVA	20kVA	40kVA
Output power ranges¹	-	24V 250A 48V 125A 100V 60A 200V 30A 400V 15A	24V 500A 48V 250A 100V 120A 200V 60A 400V 30A	24V 1000A 48V 500A 100V 240A 200V 120A 400V 60A
Sine measurement				
Output frequency	-	50Hz-200Hz		
Inductance measurement	-	Precision power analyzer, Basic accuracy 0.04%		
Pulse current inductance measurement	With Solfas LI4000 Energy up to 4000J, Current up to 4000A, Voltage up to 450V			
Winding resistance²	4-wire measurement, Ranges 2000mΩ, 200mΩ, 20mΩ, Accuracy ± (0.15% + 0.30%)			
High voltage test	0.1 ... 6kVAC, 500VA			
Surge voltage test	0.3 ... 3kV (Option)			
Ground bond test	Measurement current 5 ... 30A AC (Option)			
Insulation resistance test	Test voltage 500VDC, 1000VDC (Option)			
Safety features	Emergency stop button loop, safety circuit for test cabin doors, warning lamps Complete solution for safe testing according to EN50191			
Dimensions (WxHxD) [mm]	600x2100x800	1200x2100x800	1200x2100x800	1800x2100x800
Weight	270kg	460kg	540kg	730kg

- 1) At duty cycle 15s on, 45s off, continuous for 50% of rated current range
 2) Option for high accuracy at low resistances <1mΩ available



SOLFAS TECHNOLOGIE GMBH

We specialize in the development and distribution of test systems, power supplies and measuring instruments.

Experts in electrical testing and automation, our company offers a broad range of high-performance full-service testing solutions and measuring instruments. We provide clients in the automotive, aerospace, energy and traditional industry sectors with the equipment they need to test high power components, such as chokes, transformers and electric motors.