Test Stand For DC-Generators, Starter Generators And Generator Control Units

>SPSG15-16C-GCU<

The test stand is developed to test DC generators and starter generators (drive and brakes) up to a maximum power of 15kW, with the respective GCU or for a separate test of the GCU. This action is carried out in accordance with ATA Chapter 100, 2100 or 2200.

It can be adapted to test various types of generators and GCUs.

- A crane enables easy mounting of the generators being tested
- The UUTs can be monitored via the camera above the test area
- The test stand control console is located in a separate room to minimize noise exposure
- Tests of GCUs are carried out at the control console
- Each UUT is attached to the test stand with a special adapter set

GENERAL INFORMATION

- Integrated vibration testing
- "No load" mounting fixtures on the test bed enable the fittig of the generators
- The equipment is user friendly due to its ergonomic design and can easily be installed and maintained due to its modular design
- Doors and access panels enable easy access for maintenance
- Storage space is provided under the test bed for all tools and adapters

RANGE OF APPLICATION

Designation	Goodrich PN
Starter generators:	
Starter generator 160 Amp	23032-020
Starter generator 150 Amp	23032-045
Starter generator 150 Amp	23032-048
Starter generator 200 Amp	23046-027
Starter generator 250 Amp	23048-023
Starter generator 300 Amp	23064-001
Starter generator 400 Amp	23080-050
Starter generator 200 Amp	23081-018
Starter generator 200 Amp	23085-001
Starter generator 200 Amp	23092-002

Generator:	
Generator 400 Amp	30076-007
Generator Control Units (GCU):	
Generator control unit	51522-005
Generator control unit	51525-001F
Generator control unit	51530-001E
Generator control unit	51530-006B
Generator control unit	51530-007D
Generator control unit	51538-001A
Generator control unit	51539-006J
Generator control unit	51576-003

TECHNICAL DATA

Dimensions and weight:

Test stand

Length:	appr. 1,200mm (47.2in)
Width:	appr. 2,270mm (89.4in)
Height:	appr. 2,100mm (82.7in) (excl. crane)

Switch cabinets

Length:	appr. 3,250mm (128in)
Width:	appr. 650mm (25.6in)
Height:	appr. 2,600mm (102in)

Control console

Length:	appr. 1,500mm (59in)
Width:	appr. 1,100mm (43.3in)
Height:	appr. 1,450mm (57.1in)

Weight:

Test stand, switch cabinets:	appr. 2,200kg (4,850lb)
Control console	appr. 335kg (771lb)

Electrical supply (requirements):

Mains connection:	3/N/PE AC 60Hz 480V
alternatively:	3/N/PE AC 50Hz 400V
Nominal current:	max. 120A
Power:	99.6kVA
Back-up fuse:	160A gL

Pneumatic supply (requirements):

Pressure:	5 to 10bar (72.5 to 145psi)
Flow:	max. 300Nl/min (10.6scfm/min)
Air quality:	ISO 8573-1 ISO Code 1-4-2
Temperature:	max. 50°C (155°F)

Operating conditions:

Ambient temperature:	5 to 40°C (41 to 104°F)
Storage temperature:	0 to 60°C (41 to 140°F)
Rel. humidity:	10 to 95% (non-condensing)
Altitude:	up to 1,000m (3,280ft) above SL

TECHNICAL DATA

> **Measurement range:**

Torque:	
(1-off)	-100 to 100Nm
	±2.5% measurement range
Rotational speed:	
(1-off)	0 to 16,000rpm
	±10rpm
(1-off)	0 to 16,000rpm
	±1rpm
Pressure sensor:	
(1-off)	0 to 500mbar (7.25psi)
	±4% measurement range
Voltmeters:	
(1-off)	-10 to 10V
(7-off)	-40 to 40V
(1-off)	0 to 10Vrms
(7-off)	0 to 30V
(9-off)	0 to 40V
(4-off)	0 to 60V
	±0.5% measurement range
(2-off)	0 to 5V
	±0.002V
(2-off)	0 to 200mV
	±2mV

Current:	
(2-off)	0 to 2A
	±0.5% of full scale
(1-off)	0 to 5A
(1-off)	0 to 10A
(1-off)	0 to 12A
(3-off)	0 to 20A
(1-off)	0 to 600A
(2-off)	0 to 2,000A
	±0.5% measurement range
Temperature sensors:	
(1-off)	0 to 100°C (32 to 212°F)
(1-off)	0 to 200°C (32 to 392°F)
	±1°C (1.8°F)
Vibration:	
(1-off)	0 to 0.01mmpp
	±5% measurement range
Resistance:	
(1-off)	0 to 100Ohm
	±0.5% measurement range
(1-off)	0 to 1000hm
	±1Ohm

Switch cabinets

Control console

OPTIONS

Various optons are available to meet our customers' requirements
e.g.: adaption to other types of DC and starter generators as well as GCUs, different touch screens,...

Technical data are subject to change!