

Product Name :
Gas Turbine

Product Code :
DM622



Description :

Gas Turbine

Technical Specification :

Gas Turbine

Function and behaviour during operation of a gas turbine

Single-shaft arrangement for operation as jet engine

Two-shaft arrangement for operation with power turbine

Start-up fan to start the gas turbine

Asynchronous motor with frequency converter as generator

Conversion of generated electrical energy into heat using four 600w braking resistors

Software for data acquisition via USB under Windows 10

Technical data:

Gas generator (compressor and high-pressure turbine)

Speed range: 60000â€¦125000min⁻¹

Pressure ratio: 1:2,2

Mass flow rate (air): 0,125kg/sec

Fuel consumption: 120g/min

Power turbine

Speed range: 10000â€¦40000min⁻¹

Mechanical power: 0â€¦2kw

Electrical power: 0â€¦1,5kw

Sound level at 1m distance: 80db(a)

Temperature exhaust gas: 700Â°C
Operation as jet engine
Thrust measurement: 0â€150N
Sound level at 1m distance: 110dB(A)
Measuring ranges
Temperature: 4x 0â€1200Â°C / 3x 0â€11200Â°C
Speed: 0â€199999min-1
Electrical power: 0â€1999W
Flow rate: 0â€1100L/s (air)
Flow rate: 1,5â€10,5kg/h (fuel)
Fuel supply pressure: 0â€125bar
Nozzle pressure: 0â€14bar (fuel)
Combustion chamber pressure loss: 0â€1100mbar
Pressure (inlet): 0â€12,5bar (high-pressure turbine)
Pressure (inlet): 0â€1300mbar (power turbine)
230V, 50Hz, 1 phase,

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