

Turbo Generator Set

- SOCIETE RATEAU, Type TH 457-480 multi stage condensing impulse steam turbine.
- MAAG, type GN 70 speed reduction gear.
- ALSTHOM, 7,7MW A.C. generator.

Backpressure Steam Turbine

Type : TH 457-480
Turbine-to- gear coupling type : MAAG ZNS 6
Gear-to-Generator coupling type : MAAG ZNS 9

Speed reduction gear

Type : MAAG GN 70
Input speed : 7540 rpm
Output speed : 1500 rpm

Generator

Alsthon Belfort 1969
Type : RNV 144-125
No : 409351
Voltage : 6300V
Current : 882 A
Speed of Rotation : 1500 r.p.m
KVA : 9625
Cos(fi) : 0,8
Frequency : 50 Hz
Insu Cl. : B
Protection : Enclosed
Excitation : V 47 A 639

Performance data

Steam inlet pressure : 57 ata
Steam inlet temperature : 480 Deg. C
Exhaust pressure : 0,1 kg/cm² (abs)
Throttle steam flow : 36000 kg/h
Total kW rating : 7700 kW

Speed of rotation : 7500 rpm
Max. Continuous speed of rotation : 7875 rpm
Trip speed : 8250 rpm

Lube Oil Filter

Make &type : Rellumix 32C 400
Oil flow rate : 500 l/min
Pressure drops : 0,5 bars
Filtering efficiency : 20 microns
Oil grade : 50 C No.3 mineral
Service pressure : 5 bars

Governing & safety oil filter

Make &type : Rellumix D7C 400
Oil flow rate : 100 l/min
Pressure drops : 0,35 bars
Filtering efficiency : 20 microns
Oil grade : 50C No.3 mineral
Service pressure : 12,5 bar