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NATURAL GAS COGENERATING UNIT WITH SPARK IGNITION ENGINE

MARTIN POWER MAN

Cogenerating unit model

Electric power @ cos phi 0.8
Electric power @ cos phi 1.0
Power from fuel
Thermal power from engine cooling
HT-stage intercooler thermal power
LT-stage intercooler thermal power ¹⁾
Thermal power from suction air cooling
Thermal power from exhaust ²⁾
Thermal power on the output
Electric power efficiency
Thermal power efficiency
Total efficiency
Current
Control panel current
Speed

MP 450 N - CU

440 kVA / 352 kW
356 kW
903 kW
179 kW
46 kW
17 kW
63 kW
201 kW
443 kW
39,4%
49,1%
88,2%
635 A
630 A
1500 min ⁻¹

Engine model

Nominal power
Intake
Speed governor
Cylinders
Bore
Stroke
Displacement
Compression ratio
Ignition sequence
Ignition timing
Lambda
Max. mixture temperature
Max. intake temperature
Air mass flow
Exhaust gas flow
Max. back pressure at exhaust
Max. exhaust temperature (@ rated power)
Radiated heat (engine)
Specific gas consumption
Gas consumption @ 100% load
Gas consumption @ 75% load
Gas consumption @ 50% load
Engine oil volume (min/max)
Engine oil consumption
Coolant volume (engine only)
Coolant pressure (max)
Minimal coolant flow through engine
Coolant temperature (@ engine outlet) (min/max)
Max. temperature difference over engine
HT stage intercooler inlet temperature (max)
HT stage intercooler coolant flow (min)
LT stage intercooler inlet temperature (max)
LT stage intercooler coolant flow (min)
Battery voltage
Starter
Battery

E 3268 LE 212

370 kW
turbocharged with intercooler
electronic
8V
132 mm
157 mm
17,2 dm ³
12:1
1-5-7-2-6-3-4-8
18 °BTDC
1,69
50 °C
40 °C
1879 kg/h
1945 kg/h
4 kPa
435 °C
29 kW
185 g/kWh
65 kg/h
50 kg/h
36 kg/h
??/95 l
0,175 kg/h
34 l
3 bar
475 l/min
80/88 °C
6 °C
82 °C
146 l/min
42 °C
49 l/min
24 V
7 kW
143 Ah



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NATURAL GAS COGENERATING UNIT WITH SPARK IGNITION ENGINE **MARTIN POWER MAN**

Cogenerating unit model

Generator manufacturer
Generator model
Nominal power
F class power
Engine - generator connection
Voltage regulation
Voltage precision

Emissions
NO _x
CO
NMHC
Formaldehyd

Open CHP version
Length
Width
Height
Weight

Canopied CHP version
Length
Width
Height
Weight

Container CHP version
Length
Width
Height
Weight

Installation - connections
Gas inlet
Heating HT circuit
Heating LT circuit (optional)
Exhaust (pipe up to 6 m)

MP 450 N - CU

MARELLI
MJB 355 SB4
570 kVA / 456 kW
520 kVA
SAE 1
electronic
1,5 %

@ 5% O ₂
500 mg/Nm ³
650 mg/Nm ³ (with Oxi-Cat)
40 mg/Nm ³
60 mg/Nm ³

20'
6058 mm
2438 mm
2591 mm

Rp 2"
DN 200

- 1) The thermal power is available if the cooling water temperature input is below 35°C
- 2) Theoretical usable thermal power only