

1/ GENERAL

1500 rpm

Engine model	NEF67 TM7	
Basic engine	F4GE0685B*B601 - 5801836994	
Number cylinders	6	
Firing order (N°1 nearest to fan)	1-5-3-6-2-4	
Cylinder arrangement	in line	
Valves per cylinder	2	
Type	diesel 4 stroke	
Injection system	direct	
Induction System	Turbocharged aftercooled air/air	
Bore	mm	104
Stroke	mm	132
Total displacement	liter	6,7
Mean piston speed	m/s	6,6
Compression ratio	17,5 : 1	
Flywheel rotation	anti clockwise viewed on flywheel	
Housing flywheel	SAE 3	
Flywheel	11"1/2	
Moment of inertia		
without flywheel	kgm ²	0,14
flywheel only	kgm ²	0,71
BMEP		
Prime Power	bar/kPa	21,16 / 2116
Stand-by Power	bar/kPa	23.3 / 2332
Dry weight (including cooling package)	kg	~ 640
Energy to coolant	kcal/kWh	443
Energy to charge cooler	kcal/kWh	98
Energy to radiation	kcal/kWh	107
Dimensions L x W x H	mm	1697 X 789 X 1318

2/ PERFORMANCES

1500 rpm

Continuous Power	(gross)	kWm	145
Prime Power	(gross)	kWm	181,5
Stand-By Power	(gross)	kWm	200
Fan consumption		kWm	5
Continuous Power	(net)	kWm	141,5
Prime Power	(net)	kWm	176,5
Stand-By Power	(net)	kWm	194
Performance conditions			
temperature		°C	≤ 40
altitude a.s.l		m	≤ 1000
Derating			
temperature > T 40°C		%/5°C	2%
altitude >1000 <3000 m		%/500m	3%
altitude > 3000 m		%/500m	6%

3/ COOLING SYSTEM

1500 rpm

Type		liquido
Recommended coolant		acqua + 50 % paraflu 11
Coolant capacity		
motor only	litri	10,5
radiator and hose	litri	15
Coolant pump flow	l/min	141
Pression cap setting	kPa (bar)	70 (0,7)
Shutdown switch setting	°C	103
Maximal additional restriction	Pa	196
Air To Boil	Prime Power	°C
		60
Fan		
diameter	mm	685
number of blades		12
drive ratio		1,41 : 1
speed	giri/1'	2115,0
air flow	m ³ /s	3,8
power consumption	kWm	5

4/ LUBRICATION SYSTEM

1500 rpm

Oil sump capacity		
max	liter	12
min	liter	8
Oil system capacity including filters	liter	17,2
Oil pressure at PRP	kPa	300-500
Oil temperature		
normal	°C	---
max	°C	120
Engine angularity		
longitudinal	degrees	35°
trasverse	degrees	35°
Servicing intervall	hours	800
Oil specification		ACEA E3/E5
Oil consumption	%fuel	< 0,1

5/ INTAKE SYSTEM

1500 rpm

Air consumption at 100% of load	m ³ /h (Kg/h)	586 (706)
Air intake restriction clean filter	kPa (mbar)	2 (20)
Air intake restriction dirty filter	kPa (mbar)	5 (50)
Air filter type		dry

6/ EXHAUST SYTEM

1500 rpm

Gas flow at stand by power	kg/h	793
Max temperature at PRP (25°C)	°C	600
Max allowable back pressure	kPa (mbar)	5 (50)
Energy to exhaust	kcal/kWh	598

7/ FUEL SYSTEM			1500 rpm
Fuel consumption at			
Stand-By	gr/kWh (l/h) [kg/h]		205 (49) [41]
full load PRP	gr/kWh (l/h) [kg/h]		192,8 (42,1) [35]
80%	gr/kWh (l/h) [kg/h]		194 (37,3) [31]
50%	gr/kWh (l/h) [kg/h]		200 (24) [20]
Fuel specifications			EN 590
Fuel pump max suction head	m		---
Injection pump	type STANADYNE		DB 4629

8/ ELECTRIC SYSTEM			1500 rpm
Voltage (negative to ground)	V		12
Starter motor			
make			Bosch
power	kW		3
pull current	Amp		60
hold current	Amp		12
break away current(+20°C)	Amp		1580
cranking current (+20°C)	Amp		
Number of teeth on Starter motor			10
Number of teeth on flywheel			125
Starting batteries			
recommended capacity	Ah		1 x 100
discharge current	Amp		650
(EN 50342)			
Stop solenoid energized to run			---
Alternator			
voltage	V		14
charge	Amp		90

9/ COLD STARTING			1500 rpm
Without air preheating	°C		-10
With air preheating	°C		-25

10/ EMISSION GASEOUS AND PARTICLES			1500 rpm
No _x	Oxides of nitrogen	gr/kWh	-
HC	Hydrocarbons	gr/kWh	-
No _x +HC		gr/kWh	-
CO	Carbon monoxide	gr/kWh	-
PT	Particles	gr/kWh	-

GE N200 EA

200 kVA (50 Hz) - 225 kVA (60 Hz)

Genset GE N200EA

1/ GENERAL		1500 rpm	1800 rpm
consult the engine N67 TE2A			
Dimensions	L x W x H	mm	2800 X 780 X 1423
Dry weight (including cooling package)		kg	~ 1570
2/ PERFORMANCES		1500 rpm	1800 rpm
Continuous Power	kVA (kWe)	160 (128)	180 (144)
Prime Power	kVA (kWe)	200 (160)	225 (180)
Stand-By Power	kVA (kWe)	220 (176)	248 (198)
3/ COOLING SYSTEM		1500 rpm	1800 rpm
consult the engine N67 TE2A			
4/ LUBRICATION SYSTEM		1500 rpm	1800 rpm
consult the engine N67 TE2A			
5/ INTAKE SYSTEM		1500 rpm	1800 rpm
consult the engine N67 TE2A			
6/ EXHAUST SYSTEM		1500 rpm	1800 rpm
consult the engine N67 TE2A			
7/ FUEL SYSTEM		1500 rpm	1800 rpm
consult the engine N67 TE2A			
Fuel tank capacity	liters		180
8/ ELECTRIC SYSTEM		1500 rpm	1800 rpm
consult the engine N67 TE2A			
Alternator			
Marelli	type		MJB250 LA4 - 503111528
MeccAlte	type		ECO38-2SN/4 - 504085546
Stamford	type		UCI274 H16 - 8005810
Pole	n°		4
Mecchanical Protection			IP21
Coupling single bearing			SAE 3 11"1/2
other information			consult the documentation of the alternator

GE N200 EA

200 kVA (50 Hz) - 225 kVA (60 Hz)

Genset GE N200EA

9/ COLD STARTING

1500 rpm

1800 rpm

consult the engine N67 TE2A

10/ EMISSION GASEOUS AND PARTICLES

1500 rpm

1800 rpm

consult the engine N67 TE2A

11/ DERATING

1500 rpm

1800 rpm

consult the engine N67 TE2A

12/ LOAD OF ACCEPTANCE

1500 rpm

1800 rpm

No load initial Hz = 50							
Acceptance				Removal			
Step-kW(% load)	- delta Hz	-delta %	r.t. " sec. "	Static Droop %	+ delta Hz	+ delta %	r.t. - sec.
0 - (25%)	2,00	-4,00	3,00	0,00	1,20	2,40	0,50
0 - (50%)	3,80	-7,60	2,00	0,00	2,20	4,40	1,00
0 - (75%)	7,60	-15,20	3,00	0,00	4,00	8,00	0,60
0 - (100%)	11,40	-22,80	5,00	0,00	6,60	13,20	1,00

Alternator used for test :

No load initial Hz = 60							
Acceptance				Removal			
Step-kW(% load)	- delta Hz	-delta %	r.t. " sec. "	Static Droop %	+ delta Hz	+ delta %	r.t. - sec.
0 - (25%)	1,80	-3,00	2,40	0,00	1,60	2,70	0,80
0 - (50%)	3,00	-5,00	2,70	0,00	3,00	5,00	0,40
0 - (75%)	6,00	-10,00	2,80	0,00	3,20	5,30	0,60
0 - (100%)	8,40	-14,00	3,00	0,00	6,00	10,00	0,60

Alternator used for test :

1500 rpm

1800 rpm

Performance according to ISO 8528-5

G3 class

Single step load acceptance	%	G3 class	48	55
Single step load acceptance	%	G2 class	60	75

http://www.bizmotors.ru/equipment/veco/gen200ma/