

Name 16V2000G36F

Application Group 3B

Dataset Ref. 25°C/-; Air charge air cooling Speed [rpm] 1500 Nominal power [kW] 1000 Nominal power [bhp] 1341 Frequency [Hz] 50

Exhaust Regulations NOx emission optimized;

Reference conditions

No.	Description	Index	Value	Unit
6	Intake air temperature		25	°C
7	Charge-air coolant temperature		-	°C
8	Barometric pressure		1000	mbar
9	Site altitude above sea level		100	m

0. Data-relevant engine design configuration

or 2 atta roto tallit origin o accign o oring attached				
No.	Description	Index	Value	Unit
43	Amendment history drawing No.		N	-
44	Amendment history drawing No.		N	
44	(cont.)		11	-
0	Engine rated speed switchable			
٥	(1500/1800 rpm)		-	-
13	Engine without sequential turbocharging		v	
13	(turbochargers without cut-in/cut-out control)		<u> </u> ^	-
31	Engine with air-cooled charge air		Х	-
61	Engine with water/charge air cooling			
	(LT, on-engine)			-

1. Power-related data

No.	Description	Index	Value	Unit
1	Engine rated speed	Α	1500	rpm
4	Continuous power ISO 3046 (10% overload capability)		1000	134/
	(design power DIN 6280, ISO 8528)	A	1000	kW
5	Fuel stop power ISO 3046	Α	1100	kW
0	Mean effective pressure (MEP)		22.4	la a u
8	(Continuous power ISO 3046)		22.4	bar
9	Mean effective pressure (MEP)		24.6	la a u
	(Fuel stop power ISO 3046)		24.6	bar

2. General Conditions (for maximum power)

No.	Description	Index	Value	Unit
46	Individual power calculation (ESCM)		V	
46	required for maximum power		^	-
1	Intake air depression (new filter)	А	15	mbar
2	Intake air depression, max.	L	40	mbar
3	Exhaust back pressure	А	30	mbar
4	Exhaust back pressure, max.	L	50	mbar
5	Fuel temperature at fuel feed connection	R	25	°C
0	Fuel temperature at fuel feed connection, max.			°C
9	(w/o power reduction)	L	-	C
10	Fuel temperature at fuel feed connection, max.	L	65	°C

BL Reference value: fuel stop power
Maximum engine power that cannot be run continuously on
some applications (stabilization reserve)
DL Reference value: continuous power
Engine power that can be run continuously under standard
conditions

> Actual value must be greater than specified value <a> Actual value must be less than specified value

The module is valid for this product type
In Mon-applicable
The module is not valid for this product type
IN Value not named
The value has not yet been named or will not be named

* Adequate verification not yet available (tolerance +/- 10%)

** Adequate verification not yet available (tolerance +/- 5%)



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149	Max. ambient temperature in direct vicinity of vibration damper	L	-	°C
18	Fuel temperature at fuel feed connection, min.	L	N	°C

3. Consumption

No.	Description	Index	Value	Unit	
17	Specific fuel consumption (be) - 100 % CP	R	201	g/kWh	
1/	(+ 5 %; EN 590; 42.8 MJ/kg)	, n	201	g/Kvvii	
18	Specific fuel consumption (be) - 75 % CP	R	203	g/kWh	
10	(+ 5 %; EN 590; 42.8 MJ/kg)	ĸ	203	g/kvvii	
19	Specific fuel consumption (be) - 50 % CP	R	210	g/kWh	
19	(+ 5 %; EN 590; 42.8 MJ/kg)	, n	210	g/Kvvii	
20	Specific fuel consumption (be) - 25 % CP	R	236	g/kWh	
20	(+ 5 %; EN 590; 42.8 MJ/kg)	ĸ	230	g/Kvvii	
21	Specific fuel consumption (be) - FSP	R	196	g/kWh	
21	(+ 5 %; EN 590; 42.8 MJ/kg)	n	196	g/KvvII	
56	Specific fuel consumption (be) - 100 % FSP	R		g/kWh	
50	(+ 5 %; EN 590; 42.8 MJ/kg)	K		g/ KVVII	
57	Specific fuel consumption (be) - 75 % FSP	R	-	g/kWh	
57	(+ 5 %; EN 590; 42.8 MJ/kg)	IX.		g/ KVVII	
58	Specific fuel consumption (be) - 50 % FSP	R	-	g/kWh	
50	(+ 5 %; EN 590; 42.8 MJ/kg)	K		g/ KVVII	
59	Specific fuel consumption (be) - 25 % FSP	R	-	g/kWh	
55	(+ 5 %; EN 590; 42.8 MJ/kg)	n		g/KvvII	
73	No-load fuel consumption	R	14	kg/h	
	Lube oil consumption after 100 h of operation		0.35		
	(B = fuel consumption per hour)				
92	Guideline value does not apply for the design	R		% of B	
	of EGAT systems. Please consult the Applications				
	Center with regard to the layout of EGA systems.				
62	Lube oil consumption after 100 h of operation, max.		0.8	0/ of D	
62	(B = fuel consumption per hour)	L	0.0	% of B	

4. Model-related data (basic design)

No.	Description	Index	Value	Unit
3	Engine with exhaust turbocharger (ETC) and intercooler	IIIucx	X	-
4	Exhaust piping, non-cooled		х	-
33	Working method: four-cycle, diesel, single-acting		х	-
34	Combustion method: direct injection		Х	-
36	Cooling system: conditioned water		Х	-
37	Direction of rotation: c.c.w. (facing driving end)		Х	-
6	Number of cylinders		16	-
7	Cylinder configuration: V angle		90	degrees (°)
10	Bore		135	mm
11	Stroke		156	mm
12	Displacement, cylinder		2.233	liter

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13	Displacement, total		35.7	liter
14	Compression ratio		17.5	-
40	Cylinder heads: single-cylinder		Х	-
41	Cylinder liners: wet, replaceable		Х	-
24	Number of inlet valves, per cylinder		2	-
25	Number of exhaust valves, per cylinder		2	-
15	Number of turbochargers		2	-
16	Number of L.P. turbochargers		-	-
17	Number of H.P. turbochargers		-	-
18	Number of intercoolers		1	-
19	Number of L.P. intercoolers		-	-
20	Number of H.P. intercoolers		-	-
28	Standard flywheel housing flange (engine main PTO)		0	SAE
50	Static bending moment at standard		N	I.N.a.
30	flywheel housing flange, max.	L	N	kNm
51	Dynamic bending moment at standard		N	LAL
21	flywheel housing flange, max.	L	liv	kNm
43	Flywheel interface (DISC)		18"	-
46	Engine mass diagram, drawing No.		N	-
47	Engine mass diagram, drawing No. (cont.)		N	-

5. Combustion air / exhaust gas

No.	Description	Index	Value	Unit
33	Charge-air flow through external air-to-air intercooler	А	N	m³/s
34	Charge-air temperature before external	۸	220	°C
34	air-to-air intercooler	A	220	C
35	Charge-air temperature after external	А	50	°C
33	air-to-air intercooler	A	30	C
36	Charge-air temperature after external		65	°C
30	air-to-air intercooler, max.	L	3	C
37	Charge-air temperature after external		10	°C
37	air-to-air intercooler, min.	L	10	C
39	Pressure differential in external		130	mbar
33	air-to-air intercooler, max.	_	130	IIIDai
8	Charge-air pressure before cylinder - CP	R	3.4	bar abs
27	Charge-air pressure before cylinder - FSP	R	3.5	bar abs
9	Combustion air volume flow - CP	R	1.24	m³/s
10	Combustion air volume flow - FSP	R	1.27	m³/s
11	Exhaust volume flow (at exhaust temperature) - CP	R	3.37	m³/s
12	Exhaust volume flow (at exhaust temperature) - FSP	R	3.43	m³/s
17	Exhaust temperature after engine - CP	R	520	°C
18	Exhaust temperature after engine - FSP	R	535	°C
58	Exhaust temperature after engine (turbocharger), max.	L	700	°C

6. Heat dissipation

No.	Description	Index	Value	Unit	l
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Applicable
 The module is valid for this product type
 Non-applicable
 The module is not valid for this product type
 Would be the module is not valid for this product type
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60	Heat dissipated by engine coolant - CP	R	375	kW
00	(high-temperature circuit)	N	373	KVV
61	Heat dissipated by engine coolant - CP	R		kW
01	(low-temperature circuit)	ĸ		KVV
62	Heat dissipated by engine coolant - FSP (high-temperature circuit)	400	kW	
02		K	400	KVV
63	Heat dissipated by engine coolant - FSP	В		kW
03	(low-temperature circuit)	R		KVV
26	Charge-air heat dissipation - CP	R	250	kW
27	Charge-air heat dissipation - FSP	R	250	kW
31	Heat dissipated by return fuel flow - CP	R	3.5	kW
32	Heat dissipated by return fuel flow - FSP	R	3.5	kW
33	Radiation and convection heat, engine - CP	R	40	kW
34	Radiation and convection heat, engine - FSP	R	40	kW

7. Coolant system (high-temperature circuit)

No.	Description	Index	Value	Unit
17	Coolant temperature		100	°C
17	(at engine outlet to cooling equipment)	A	100	°C
20	Coolant temperature after engine, limit 1	L	102	°C
21	Coolant temperature after engine, limit 2	L	105	°C
25	Coolant antifreeze content, max.	L	50	%
30	Cooling equipment: coolant flow rate	А	41.6	m³/h
35	Coolant pump: inlet pressure, min.	L	0.4	bar
36	Coolant pump: inlet pressure, max.	L	1.5	bar
41	Pressure loss in off-engine cooling system, max.	L	1.0	bar
72	Pressure loss in off-engine cooling system, min.	L	0.3	bar
47	Breather valve (expansion tank)		1.0	la a u
47	opening pressure (excess pressure)	R	1.0	bar
54	Cooling equipment: height above engine, max.	L	20	m
50	Thermostat, starts to open	R	79	°C

8. Coolant system (low-temperature circuit)

No.	Description	Index	Value	Unit
0	Coolant temperature before intercooler	^		20
9	(at engine inlet from cooling equipment)	A	-	C
13	Coolant antifreeze content, max.	L	-	%
17	Charge-air temperature after intercooler, max.	L	-	°C
76	Temperature differential between intake air and	٨		V
70	charge-air coolant before intercooler	A	-	K
20	Cooling equipment: coolant flow rate	А	-	m³/h
24	Coolant pump: inlet pressure, min.	L	-	bar
25	Coolant pump: inlet pressure, max.	L	-	bar
29	Pressure loss in off-engine cooling system, max.	L	-	bar
62	Pressure loss in off-engine cooling system, min.	L	-	bar
43	Cooling equipment: height above engine, max.	L	-	m

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36	Breather valve (expansion tank) opening pressure (excess pressure)	R	-	bar
39	Thermostat, starts to open	R	-	°C

10. Lube oil system

No.	Description	Index	Value	Unit
1	Lube oil operating temp. before engine, from	R	75	°C
2	Lube oil operating temp. before engine, to	R	100	°C
5	Lube oil temperature before engine, limit 1	L	103	°C
6	Lube oil temperature before engine, limit 2	L	105	°C
8	Lube oil operating press. bef. engine, from	R	6.2	bar
9	Lube oil operating press. bef. engine, to	R	8.8	bar
10	Lube oil pressure before engine, alarm	L	4.5	bar
11	Lube oil pressure before engine, shutdown	L	4.0	bar
19	Lube oil fine filter (main circuit):		1	
19	number of units			-
20	Lube oil fine filter (main circuit):		2	
20	number of elements per unit		3	-
32	Lube oil fine filter (main circuit):		1.0	la a u
32	pressure differential, max.	L	1.0	bar

11. Fuel system

No.	Description	Index	Value	Unit
3307	Fuel pressure at fuel feed connection, min.	1,	0.5	bar abs
3307	(when engine is starting), absolute pressure	L	0.3	Dar abs
3309	Fuel pressure at fuel feed connection, max.		1.5	bar abs
3303	(when engine is starting), absolute pressure	L	1.5	Dai abs
3308	Fuel pressure at fuel feed connection, min.		0.5	bar abs
3308	(when engine is running), absolute pressure	L	0.5	Dai abs
3310	Fuel pressure at fuel feed connection, max. (permanent), absolute pressure	L	1.0	bar abs
3311	Fuel pressure at fuel feed connection, specification		XZ54407000001	-
4211	Max. fuel supply volume	Α	25	liter/min
4211	Normal mode	A	23	inter/iiiiii
4212	Max. fuel supply volume	Α	25	liter/min
4212	Failure mode	А	23	inter/min
77	Max. fuel return volume	R	25	liter/min
, ,	Normal mode	I.	25	
4184	Max. fuel return volume	R	25	liter/min
4104	Failure mode	K	23	inter/min
10	Fuel pressure at return connection on engine, max.	L	0.5	bar
13	Fuel temperature differential before/after engine, max.	L	15	K
18	Fuel fine filter (main circuit): number of units	Α	1	-
19	Fuel fine filter (main circuit): number of elements per unit	Α	4	-
20	Fuel fine filter (main circuit): particle retention	Α	0.005	mm
21	Fuel fine filter (main circuit): pressure differential, max.	L	1.0	bar



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12. General operating data

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No.	Description	Index	Value	Unit	
1	Cold start capability: air temperature	0	0	°C	
1	(w/o starting aid, w/o preheating) - (case A)	R	O	C	
22	Coolant preheating, preheating temperature, min.	L	32	°C	
3506	Coolant preheating, preheating temperature, max.	L	55	°C	
28	Breakaway torque (without driven machinery)	В		Nm	
20	coolant temperature +5°C	R	-	INIII	
30	Breakaway torque (without driven machinery)	0		Nice	
30	coolant temperature +40°C	R	-	Nm	
20	Cranking torque at firing speed (without driven machinery)	_		Nice	
29	coolant temperature +5°C	R	-	Nm	
24	Cranking torque at firing speed (without driven machinery)	_			
31	coolant temperature +40°C	R	-	Nm	
0.0	Starting is blocked if the engine coolant temperature is		30		
96	below		-20	°C	
37	High idling speed, max. (static)	L	1660	rpm	
38	Limit speed for overspeed alarm / emergency shutdown	L	1800	rpm	
42	Firing speed, from	R	100	rpm	
43	Firing speed, to	R	120	rpm	
44	Engine coolant temperature before starting full-load operation, recommended	2	40	٥.	
44	min.	R	40	°C	
48	Minimum continuous load	R	20	%	
49	Extended low or no-load operation possible		х		
49	(consultation required)		^	-	
50	Engine mass moment of inertia	_	3.4	1	
50	(without flywheel)	R	3.4	kgm²	
52	Standard flywheel mass moment of inertia	R	2.99	kgm²	
1981	Block bending moment - SAE 0	R	N	kNm	
69	Speed droop (with electronic governor) adjustable, from	R	0	%	
70	Speed droop (with electronic governor) adjustable, to	R	5	%	

13. Starting (electric)

No.	Description	Index	Value	Unit
2309	Manufacturer		PRESTOLITE	-
2310	Number of starter		1	-
2312	Starter electrically redundant		-	-
2313	Rated power per starter	R	7.5	kW
2314	Starter, rated voltage	R	24	VDC
2315	Rated short-circuit current per starter	L	1730	Α
2316	Power consumption per starter	0	720	А
2310	(at an engine speed of 100 rpm)	R		
3000	Power consumption per starter	٥		
3000	(at an engine speed of 100 rpm, SAE0)	R	-	А
3002	Power consumption per starter			Δ.
3002	(at an engine speed of 100 rpm, SAE1)	R	-	А

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2317	Internal resistance of power supply + line resistance per starter	Α	0.008	Ω
2318	Manufacturer	А	PRESTOLITE	12
			PRESTOLITE	-
	Number of starter		2	-
2320	Starter electrically redundant		X	-
2321	Rated power per starter	R	7.5	kW
2322	Starter, rated voltage	R	24	VDC
2323	Rated short-circuit current per starter	L	1730	Α
2324	Power consumption per starter	0	720	٨
2324	(at an engine speed of 100 rpm)	R	720	Α
3001	Power consumption per starter	В		^
3001	(at an engine speed of 100 rpm, SAE0)	R		Α
3003	Power consumption per starter	R		A
3003	(at an engine speed of 100 rpm, SAE1)	ĸ		А
2325	Internal resistance of power supply + line resistance per starter	Α	0.008	Ω
2347	Generally valid data for starter		X	-
2342	Rated starting-attempt Duration (at +20°C ambient temperature with battery	R	3	S
2343	Interval between starts		5	
2343	(at rated starting-attempt duration), min.	L	5	S
2345	Maximum acceptable starting-attempt duration	L	15	S
2344	Interval between starts		60	
2344	(when starting-attempt duration > rated starting-attempt duration)	R	60	S
2246	Starting attempts within 30 minutes			
2346	(at +20°C ambient temperature with battery full), max.	L	6	-

15. Starting (pneumatic/oil pressure starter)

No.	Description	Index	Value	Unit
36	Pneumatic starter: make TDI		х	-
5	Starting air pressure before starter motor, min.	R	8	bar
6	Starting air pressure before starter motor, max.	R	9	bar
7	Starting air pressure before starter motor, min.	L	8	bar
8	Starting air pressure before starter motor, max.	L	9	bar
18	Start attempt duration (engine preheated)	R	3	S
19	Start attempt duration (engine not preheated)	R	5	S
20	Start attempt duration, max.	L	-	s
	Air consumption/start attempt			m³n
114	(engine preheated)		1.1	
114	Engine without generator	R		
	Control with engine controller			
	Air consumption/start attempt			m³n
115	(engine not preheated)		4.0	
115	Engine without generator	R	1.2	
	Control with engine controller			
116	Air consumption with external control		0.6	3
116	for air-starter (per second	R	0.6	m³n
22	Starting air tank for 3 start attempts			lik
23	(max. 40 bar) (engine preheated)	R		liter



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Starting air tank for 3 start attempts (max. 30 bar) (engine preheated) R - liter Starting air tank for 6 start attempts (max. 40 bar) (engine preheated) R - liter Starting air tank for 6 start attempts (max. 30 bar) (engine preheated) R - liter Starting air tank for 10 start attempts (max. 40 bar) (engine preheated) R - liter Starting air tank for 10 start attempts (max. 40 bar) (engine preheated) R - liter Starting air tank for 10 start attempts (max. 30 bar) (engine preheated) R - liter Starting air tank for 3 start attempts (max. 40 bar) (engine not preheated) Starting air tank for 3 start attempts (max. 40 bar) (engine not preheated) Starting air tank for 6 start attempts (max. 30 bar) (engine not preheated) Starting air tank for 6 start attempts (max. 40 bar) (engine not preheated) Starting air tank for 6 start attempts (max. 40 bar) (engine not preheated) Starting air tank for 6 start attempts (max. 30 bar) (engine not preheated) Starting air tank for 10 start attempts (max. 30 bar) (engine not preheated) R N liter Starting air tank for 10 start attempts (max. 30 bar) (engine not preheated) R N liter Starting air tank for 10 start attempts (max. 30 bar) (engine not preheated) R N liter					
(max. 30 bar) (engine preheated)	24	Starting air tank for 3 start attempts	R	_	litor
Itter Itte	- '	(max. 30 bar) (engine preheated)	IX.		iitei
(max. 40 bar) (engine preheated) R -	25	Starting air tank for 6 start attempts	D	_	litor
Iliter	23	(max. 40 bar) (engine preheated)	K		iitei
Compact Comp	26	Starting air tank for 6 start attempts	D	_	litor
Itter	20	(max. 30 bar) (engine preheated)	N.		iitei
(max. 40 bar) (engine preheated)	27	Starting air tank for 10 start attempts	D	-	litor
Itter	21	(max. 40 bar) (engine preheated)	ĸ		liter
(max. 30 bar) (engine preheated) 29	20	Starting air tank for 10 start attempts	D		litor
(max. 40 bar) (engine not preheated) R	20	(max. 30 bar) (engine preheated)	N.		iitei
(max. 40 bar) (engine not preheated)	20	Starting air tank for 3 start attempts	0	N	liter
(max. 30 bar) (engine not preheated) R N liter	23	(max. 40 bar) (engine not preheated)	ĸ		
(max. 30 bar) (engine not preheated) Starting air tank for 6 start attempts (max. 40 bar) (engine not preheated) Starting air tank for 6 start attempts (max. 30 bar) (engine not preheated) Starting air tank for 10 start attempts (max. 30 bar) (engine not preheated) Starting air tank for 10 start attempts (max. 40 bar) (engine not preheated) Starting air tank for 10 start attempts (max. 40 bar) (engine not preheated)	20	Starting air tank for 3 start attempts	_	N	liter
(max. 40 bar) (engine not preheated) Starting air tank for 6 start attempts	30	(max. 30 bar) (engine not preheated)	ĸ		
(max. 40 bar) (engine not preheated) Starting air tank for 6 start attempts	21	Starting air tank for 6 start attempts	В	N	liter
(max. 30 bar) (engine not preheated) R N liter	31	(max. 40 bar) (engine not preheated)	K	IN .	
(max. 30 bar) (engine not preheated) Starting air tank for 10 start attempts (max. 40 bar) (engine not preheated) Starting air tank for 10 start attempts R N liter	22	Starting air tank for 6 start attempts	0	N	liter
(max. 40 bar) (engine not preheated) Starting air tank for 10 start attempts R N liter	32	(max. 30 bar) (engine not preheated)	K	IN .	
(max. 40 bar) (engine not preheated) Starting air tank for 10 start attempts R N	22	Starting air tank for 10 start attempts		N	liter
34 I G IN Hiter	33	(max. 40 bar) (engine not preheated)	K	IN	
(max. 30 bar) (engine not preheated)	24	Starting air tank for 10 start attempts		N	lika u
	34	(max. 30 bar) (engine not preheated)	K	N	liter

16. Inclinations - standard oil system (ref.: waterline)

No.	Description	Index	Value	Unit
	Longitudinal inclination, continuous max.			
15	driving end down	L	5	degrees (°)
	(Option: max. operating inclinations)			
	Longitudinal inclination, continuous max.			
17	driving end up	L	5	degrees (°)
	(Option: max. operating inclinations)			
19	Transverse inclination, continuous max.		10	dograps (°)
	(Option: max. operating inclinations)	L	10	degrees (°)

18. Capacities

No.	Description	Index	Value	Unit
1	Engine coolant capacity (without cooling equipment)	R	70	liter
10	Intercooler coolant capacity	R	-	liter
11	On-engine fuel capacity	R	6	liter
	Engine oil capacity, initial filling			
14	(standard oil system)	R	114	liter
	(Option: max. operating inclinations)			
	Oil change quantity, max.			
20	(standard oil system)	R	102	liter
	(Option: max. operating inclinations)			

BL Reference value: fuel stop power Maximum engine power that cannot be run continuously on some applications (stabilization reserve)
DL Reference value: continuous power Engine power that can be run continuously under standard conditions

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2024	Oil pan capacity, dipstick mark min. (standard oil system)	R	88	liter
2025	Oil pan capacity, dipstick mark max.	R	94	liter
	(standard oil system)	IX.	J-	littei

19. Masses / dimensions

No.	Description	Index	Value	Unit
9	Engine mass, dry			
	(basic engine configuration acc. to	R	3100	kg
	scope of supply specification)			
10	Engine mass, wet			
	(basic engine configuration acc. to	R	3275	kg
	scope of supply specification)			

20. Fan / fan cooler

No.	Description	Index	Value	Unit
1	Standard design		-	-
3	Fan, pusher-type		X	-
9	Fan drive: mechanical via V-belt		X	-
13	Fan: speed	R	N	rpm

21. Exhaust emissions

No.	Description	Index	Value	Unit
2005	Emissions data sheet:			
2003	NEA Singapore for ORDE			-
1959	Emissions data sheet:			
1939	US EPA Tier 4i			-
2052	Emissions data sheet:			
2052	MoEF India / CPCB Stage II		-	-
1972	Emissions data sheet:			
	Fuel-consumption optimized			-

22. Acoustics

2217100001100				
No.	Description	Index	Value	Unit
23	Structure born noise, vertically			
	above resilient mounting	R	736738e	-
	Spectrum No.			
101	Exhaust noise, unsilenced - CP			
	(free-field sound-pressure level Lp, 1m distance,	R	115	dB(A)
	ISO 6798, +3dB(A) tolerance)			
201	Exhaust noise, unsilenced - CP	В	127	dB(A)
	(sound power level LW, ISO 6798, +3dB(A) tolerance)	R	127	

BL Reference value: fuel stop power Maximum engine power that cannot be run continuously on some applications (stabilization reserve)
DL Reference value: continuous power Engine power that can be run continuously under standard conditions

> Actual value must be greater than specified value <a> Actual value must be less than specified value

Adequate verification not yet available (tolerance +/- 10%)
Adequate verification not yet available (tolerance +/- 5%)



Name 16V2000G36F

Application Group 3B

Dataset Ref. 25°C/-; Air charge air cooling Speed [rpm] 1500 1000 Nominal power [kW] Nominal power [bhp] 1341 Frequency [Hz] 50

Exhaust Regulations NOx emission optimized;

103	Exhaust noise, unsilenced - CP (free-field sound-pressure level Lp, 1m distance, ISO 6798) Spectrum No.	R	736747e	-
	Engine surface noise with attenuated intake noise (filter) - CP (free-field sound-pressure level Lp, 1m distance, ISO 6798, +2dB(A) tolerance)	R	101	dB(A)
	Engine surface noise with attenuated intake noise (filter) - CP (sound power level LW, ISO 6798, +2dB(A) tolerance)	R	118	dB(A)
111	Engine surface noise with attenuated intake noise (filter) - CP (free-field sound-pressure level Lp, 1m distance, ISO 6798) Spectrum No.	R	736727e	-

23. TBO and load profile (case A)

No.	Description	Index	Value	Unit
1	TBO (Time between Overhaul)	L	18000	h
	(related to standard load profile (Pn,tn))			
22	P1 (percent load related to CP)	R	110	%
3	t1 (percentage of operating time)	R	1	%
24	P2 (percent load related to CP)	R	100	%
5	t2 (percentage of operating time)	R	9	%
26	P3 (percent load related to CP)	R	70	%
7	t3 (percentage of operating time)	R	90	%
28	P4 (percent load related to CP)	R	-	%
9	t4 (percentage of operating time)	R	-	%
30	P5 (percent load related to CP)	R	-	%
18	t5 (percentage of operating time)	R	-	%
11	Mean utilization rate (percentage of rated power)	R	<75	%
12	Number of load changes/hour, type I	R	2	-
12	(< 10% to >90% load)			
13	Number of load changes/hour, type II	R	2	-
13	(< 10% to between 70% and 90% load)			
15	Maintenance schedule No.		N	-
16	Maintenance schedule No. (cont.)		N	-