Technical Sales Document
- Product Data -

Name	16V2000G25	**Speed [rpm]**	1500
Application Group	3B	**Nominal power [kW]**	810
Dataset	Ref. 25°C/-; Air charge air cooling	**Nominal power [bhp]**	1086
		Frequency [Hz]	50
Exhaust Regulations	Fuel-consumption optimized;		

Reference conditions

No.	Description	Index	Value	Unit
3	MTU data code		13	-
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
10	Raw-water inlet temperature		-	°C

0. Data-relevant engine design configuration

No.	Description	Index	Value	Unit
8	Engine rated speed switchable (1500/1800 rpm)		-	-
12	Engine with sequential turbocharging (turbochargers with cut-in/cut-out control)		-	-
13	Engine without sequential turbocharging (turbochargers without cut-in/cut-out control)		X	-
31	Engine with air-cooled charge air		X	-
32	Engine with water-cooled charge air (external)		-	-

1. Power-related data

No.	Description	Index	Value	Unit
1	Engine rated speed	A	1500	rpm
3	Mean piston speed		7.5	m/s
4	Continuous power ISO 3046 (10% overload capability) (design power DIN 6280, ISO 8528)	A	810	kW
5	Fuel stop power ISO 3046	A	891	kW
8	Mean effective pressure (MEP) (Continuous power ISO 3046)		20.35	bar
9	Mean effective pressure (MEP) (Fuel stop power ISO 3046)		22.4	bar

2. General Conditions (for maximum power)

No.	Description	Index	Value	Unit
1	Intake air depression (new filter)	A	15	mbar
2	Intake air depression, max.	L	50	mbar
3	Exhaust back pressure	A	30	mbar
4	Exhaust back pressure, max.	L	85	mbar
5	Fuel temperature at fuel feed connection	R	25	°C
6	Fuel temperature at fuel feed connection, max.	L	60	°C

3. Consumption

No.	Description	Index	Value	Unit
17	Specific fuel consumption (be) - 100 % CP (+ 5 %; EN 590; 42.8 MJ/kg)	R	198	g/kWh
18	Specific fuel consumption (be) - 75 % CP (+ 5 %; EN 590; 42.8 MJ/kg)	R	198	g/kWh

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		Frequency [Hz]	50
Exhaust Regulations	Fuel-consumption optimized;		

19	Specific fuel consumption (be) - 50 % CP (+ 5 %; EN 590; 42.8 MJ/kg)	R	203	g/kWh
20	Specific fuel consumption (be) - 25 % CP (+ 5 %; EN 590; 42.8 MJ/kg)	R	226	g/kWh
21	Specific fuel consumption (be) - FSP (+ 5 %; EN 590; 42.8 MJ/kg)	R	198	g/kWh
73	No-load fuel consumption	R	16	kg/h
61	Lube oil consumption after 100 h of operation (B = fuel consumption per hour)	R	0.5	% of B
62	Lube oil consumption after 100 h of operation, max. (B = fuel consumption per hour)	L	1.0	% of B

4. Model-related data (basic design)

No.	Description	Index	Value	Unit
3	Engine with exhaust turbocharger (ETC) and intercooler		X	-
4	Exhaust piping, non-cooled		X	-
5	Exhaust piping, liquid-cooled		-	-
33	Working method: four-cycle, diesel, single-acting		X	-
34	Combustion method: direct injection		X	-
36	Cooling system: conditioned water		X	-
37	Direction of rotation: c.c.w. (facing driving end)		X	-
6	Number of cylinders		16	-
7	Cylinder configuration: V angle		90	degrees (°)
10	Bore		130	mm
11	Stroke		150	mm
12	Displacement, cylinder		1.99	liter
13	Displacement, total		31.84	liter
14	Compression ratio		16	-
40	Cylinder heads: single-cylinder		X	-
41	Cylinder liners: wet, replaceable		X	-
24	Number of inlet valves, per cylinder		2	-
25	Number of exhaust valves, per cylinder		2	-
15	Number of turbochargers		2	-
18	Number of intercoolers		1	-
28	Standard flywheel housing flange (engine main PTO)		0	SAE
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
39	Pressure differential in external air-to-air intercooler, max.	L	130	mbar
8	Charge-air pressure before cylinder - CP	R	3.0	bar abs
27	Charge-air pressure before cylinder - FSP	R	3.2	bar abs
9	Combustion air volume flow - CP	R	1.0	m^3/s
10	Combustion air volume flow - FSP	R	1.1	m^3/s
11	Exhaust volume flow (at exhaust temperature) - CP	R	2.70	m^3/s
12	Exhaust volume flow (at exhaust temperature) - FSP	R	2.95	m^3/s
15	Exhaust temperature after turbocharger - CP	R	520	°C
16	Exhaust temperature after turbocharger - FSP	R	530	°C

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6. Heat dissipation

No.	Description	Index	Value	Unit
15	Heat dissipated by engine coolant - CP with oil heat, without charge-air heat	R	380	kW
16	Heat dissipated by engine coolant - FSP with oil heat, without charge-air heat	R	N	kW
26	Charge-air heat dissipation - CP	R	145	kW
27	Charge-air heat dissipation - FSP	R	N	kW
33	Radiation and convection heat, engine - CP	R	45	kW
34	Radiation and convection heat, engine - FSP	R	N	kW

7. Coolant system (high-temperature circuit)

No.	Description	Index	Value	Unit
17	Coolant temperature (at engine outlet to cooling equipment)	A	95	°C
20	Coolant temperature after engine, limit 1	L	97	°C
21	Coolant temperature after engine, limit 2	L	102	°C
25	Coolant antifreeze content, max.	L	50	%
30	Cooling equipment: coolant flow rate	A	40	m³/h
35	Coolant pump: inlet pressure, min.	L	0.4	bar
36	Coolant pump: inlet pressure, max.	L	1.52	bar
41	Pressure loss in off-engine cooling system, max.	L	0.7	bar
47	Breather valve (expansion tank) opening pressure (excess pressure)	R	N	bar
54	Cooling equipment: height above engine, max.	L	15.2	m
53	Cooling equipment: operating pressure	A	2.2	bar
73	Coolant level in expansion tank, below min. alarm	L	-	-
74	Coolant level in expansion tank, below min. shutdown	L	X	-
48	Breather valve (expansion tank) opening pressure (depression)	R	N	bar
49	Pressure in cooling system, max.	L	N	bar

8. Coolant system (low-temperature circuit)

No.	Description	Index	Value	Unit
76	Temperature differential between intake air and charge-air coolant before intercooler	A	-	K
75	Temperature differential between intake air and charge-air coolant before intercooler, max.	L	-	K

10. Lube oil system

No.	Description	Index	Value	Unit
1	Lube oil operating temp. before engine, from	R	88	°C
2	Lube oil operating temp. before engine, to	R	98	°C
5	Lube oil temperature before engine, limit 1	L	100	°C
6	Lube oil temperature before engine, limit 2	L	105	°C
8	Lube oil operating press. bef. engine, from	R	5.5	bar
9	Lube oil operating press. bef. engine, to	R	6.5	bar
10	Lube oil pressure before engine, alarm	L	4.4	bar

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		Frequency [Hz]	50
Exhaust Regulations	Fuel-consumption optimized;		

11	Lube oil pressure before engine, shutdown	L	3.9	bar
19	Lube oil fine filter (main circuit): number of units		1	-
20	Lube oil fine filter (main circuit): number of elements per unit		2	-
21	Lube oil fine filter (main circuit): particle retention	R	0.009	mm
32	Lube oil fine filter (main circuit): pressure differential, max.	L	0.8	bar

11. Fuel system

No.	Description	Index	Value	Unit
1	Fuel pressure at fuel feed connection, min. (when engine is starting)	L	-0.3	bar
2	Fuel pressure at fuel feed connection, max. (when engine is starting)	L	0.5	bar
37	Fuel supply flow, max.	A	10	liter/min
8	Fuel return flow, max.	A	4.5	liter/min
10	Fuel pressure at return connection on engine, max.	L	0.5	bar
12	Fuel temperature differential before/after engine	R	40	K
15	Fuel prefilter: number of units	A	-	-
16	Fuel prefilter: number of elements per unit	A	-	-
17	Fuel prefilter: particle retention	A	-	mm
18	Fuel fine filter (main circuit): number of units	A	1	-
19	Fuel fine filter (main circuit): number of elements per unit	A	1	-
20	Fuel fine filter (main circuit): particle retention	A	0.005	mm
21	Fuel fine filter (main circuit): pressure differential, max.	L	1.0	bar

12. General operating data

No.	Description	Index	Value	Unit
1	Cold start capability: air temperature (w/o starting aid, w/o preheating) - (case A)	R	0 **	°C
2	Additional condition (to case A): engine coolant temperature	R	N	°C
3	Additional condition (to case A): lube oil temperature	R	10 **	°C
4	Additional condition (to case A): lube oil viscosity	R	30 **	SAE
9	Cold start capability: air temperature (w/o starting aid, w/ preheating) - (case C)	R	-10 **	°C
10	Additional condition (to case C): engine coolant temperature	R	40 **	°C
11	Additional condition (to case C): lube oil temperature	R	-5 **	°C
12	Additional condition (to case C): lube oil viscosity	R	10W30	SAE
21	Coolant preheating, heater performance (standard)	R	4	kW
22	Coolant preheating, preheating temperature, min.	L	32	°C
28	Breakaway torque (without driven machinery) coolant temperature +5°C	R	770	Nm
30	Breakaway torque (without driven machinery) coolant temperature +40°C	R	440 *	Nm
29	Cranking torque at firing speed (without driven machinery) coolant temperature +5°C	R	510 *	Nm

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31	Cranking torque at firing speed (without driven machinery) coolant temperature +40°C	R	405 *	Nm
96	Starting is blocked if the engine coolant temperature is below		0	°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 min.	R	40	°C
48	Minimum continuous load	R	20	%
49	Extended low or no-load operation possible (consultation required)		X	-
50	Engine mass moment of inertia (without flywheel)	R	3.73	kgm²
52	Standard flywheel mass moment of inertia	R	2.82	kgm²
51	Engine mass moment of inertia (with standard flywheel)	R	6.55	kgm²
69	Speed droop (with electronic governor) adjustable, from	R	0	%
70	Speed droop (with electronic governor) adjustable, to	R	5	%
95	Number of starter ring-gear teeth on engine flywheel		118	-

13. Starting (electric)

No.	Description	Index	Value	Unit
2309	Manufacturer		DELCO	-
2310	Number of starter		1	-
2312	Starter electrically redundant		-	-
2313	Rated power per starter	R	9	kW
2314	Starter, rated voltage	R	24	VDC
2315	Rated short-circuit current per starter	L	1900	A
2316	Power consumption per starter (at an engine speed of 100 rpm)	R	930	A
3000	Power consumption per starter (at an engine speed of 100 rpm, SAE0)	R	-	A
3002	Power consumption per starter (at an engine speed of 100 rpm, SAE1)	R	-	A
2317	Internal resistance of power supply + line resistance per starter	A	0.008	Ω
2318	Manufacturer		DELCO	-
2319	Number of starter		2	-
2320	Starter electrically redundant		X	-
2321	Rated power per starter	R	9	kW
2322	Starter, rated voltage	R	24	VDC
2323	Rated short-circuit current per starter	L	1900	A
2324	Power consumption per starter (at an engine speed of 100 rpm)	R	930	A
3001	Power consumption per starter (at an engine speed of 100 rpm, SAE0)	R	-	A
3003	Power consumption per starter (at an engine speed of 100 rpm, SAE1)	R	-	A
2325	Internal resistance of power supply + line resistance per starter	A	0.008	Ω
2326	Manufacturer		PRESTOLITE	-
2327	Number of starter		1	-
2328	Starter electrically redundant		-	-

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2329	Rated power per starter	R	9	kW
2330	Starter, rated voltage	R	24	VDC
2331	Rated short-circuit current per starter	L	1900	A
2332	Power consumption per starter (at an engine speed of 100 rpm)	R	830	A
3251	Power consumption per starter (at an engine speed of 100 rpm, SAE0)	R	-	A
3252	Power consumption per starter (at an engine speed of 100 rpm, SAE1)	R	-	A
2333	Internal resistance of power supply + line resistance per starter	A	0.005	Ω
2334	Manufacturer		PRESTOLITE	-
2335	Number of starter		2	-
2336	Starter electrically redundant		X	-
2337	Rated power per starter	R	9	kW
2338	Starter, rated voltage	R	24	VDC
2339	Rated short-circuit current per starter	L	1900	A
2340	Power consumption per starter (at an engine speed of 100 rpm)	R	830	A
3372	Power consumption per starter (at an engine speed of 100 rpm, SAE0)	R	-	A
3373	Power consumption per starter (at an engine speed of 100 rpm, SAE1)	R	-	A
2341	Internal resistance of power supply + line resistance per starter	A	0.005	Ω
3374	Manufacturer		PRESTOLITE	-
3375	Number of starter		2	-
3376	Starter electrically redundant		-	-
3377	Rated power per starter	R	9	kW
3378	Starter, rated voltage	R	24	VDC
3379	Rated short-circuit current per starter	L	1900	A
3380	Power consumption per starter (at an engine speed of 100 rpm)	R	830	A
3381	Power consumption per starter (at an engine speed of 100 rpm, SAE0)	R	-	A
3382	Power consumption per starter (at an engine speed of 100 rpm, SAE1)	R	-	A
3383	Internal resistance of power supply + line resistance per starter	A	0.005	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 (at rated starting-attempt duration), min.	L	5	s
2345	Maximum acceptable starting-attempt duration	L	15	s
2344	Interval between starts (when starting-attempt duration > rated starting-attempt duration)	R	60	s
2346	Starting attempts within 30 minutes (at +20°C ambient temperature with battery full), max.	L	6	-

15. Starting (pneumatic/oil pressure starter)

No.	Description	Index	Value	Unit
5	Starting air pressure before starter motor, min.	R	17	bar
6	Starting air pressure before starter motor, max.	R	N	bar
7	Starting air pressure before starter motor, min.	L	N	bar
8	Starting air pressure before starter motor, max.	L	N	bar
18	Start attempt duration (engine preheated)	R	N	s

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19	Start attempt duration (engine not preheated)	R	N	s
20	Start attempt duration, max.	L	N	s
21	Air consumption/start attempt (engine preheated)	R	0.83	m³n
23	Starting air tank for 3 start attempts (max. 40 bar) (engine preheated)	R	N	liter
24	Starting air tank for 3 start attempts (max. 30 bar) (engine preheated)	R	N	liter
25	Starting air tank for 6 start attempts (max. 40 bar) (engine preheated)	R	N	liter
26	Starting air tank for 6 start attempts (max. 30 bar) (engine preheated)	R	N	liter
27	Starting air tank for 10 start attempts (max. 40 bar) (engine preheated)	R	N	liter
28	Starting air tank for 10 start attempts (max. 30 bar) (engine preheated)	R	N	liter

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

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

18. Capacities

No.	Description	Index	Value	Unit
1	Engine coolant capacity (without cooling equipment)	R	110	liter
11	On-engine fuel capacity	R	5	liter
14	Engine oil capacity, initial filling (standard oil system) (Option: max. operating inclinations)	R	102	liter
20	Oil change quantity, max. (standard oil system) (Option: max. operating inclinations)	R	99	liter
28	Oil pan capacity, dipstick mark min. (standard oil system) (Option: max. operating inclinations)	L	69	liter
29	Oil pan capacity, dipstick mark max. (standard oil system) (Option: max. operating inclinations)	L	92	liter

19. Masses / dimensions

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

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10	Engine mass, wet (basic engine configuration acc. to scope of supply specification)	R	3310	kg

20. Fan / fan cooler

No.	Description	Index	Value	Unit
3	Fan, pusher-type		X	-
18	Fan arrangement: vertical above crankshaft		X	-
9	Fan drive: mechanical via V-belt		X	-
13	Fan: speed	R	N	rpm
19	Standard fan cooler, supplied by MTU, design and specific data acc. to case A / B / C		N	-
21	(Case A) - fan cooler, designed for: - ambient temperature	A	N	°C
54	(Case A) - fan cooler, designed for: - site altitude, max.	A	N	m
22	(Case A) - fan cooler, designed for: - coolant antifreeze content, max.	A	N	%
55	(Case A) - fan: power consumption at 1 mbar / 100 Pa duct allowance (pressure and suction sides, total)	R	N	kW
56	(Case A) - fan: power consumption at 2 mbar / 200 Pa duct allowance (pressure and suction sides, total)	R	N	kW
57	(Case A) - fan: power consumption at 3 mbar / 300 Pa duct allowance (pressure and suction sides, total)	R	N	kW
27	(Case A) - cooling-air flow rate at 1 mbar / 100 Pa duct allowance (pressure and suction sides, total)	R	N	m³/s
28	(Case A) - cooling-air flow rate at 2 mbar / 200 Pa duct allowance (pressure and suction sides, total)	R	N	m³/s
29	(Case A) - cooling-air flow rate at 3 mbar / 300 Pa duct allowance (pressure and suction sides, total)	R	N	m³/s
58	(Case A) - fan: weight	R	N	kg
59	(Case A) - fan cooler: weight, dry (incl. pipework)	R	N	kg
31	(Case A) - fan cooler: coolant capacity	R	N	liter
32	(Case B) - fan cooler, designed for: - ambient temperature	A	N	°C
60	(Case B) - fan cooler, designed for: - site altitude, max.	A	N	m
33	(Case B) - fan cooler, designed for: - coolant antifreeze content, max.	A	N	%
61	(Case B) - fan: power consumption at 1 mbar / 100 Pa duct allowance (pressure and suction sides, total)	R	N	kW
62	(Case B) - fan: power consumption at 2 mbar / 200 Pa duct allowance (pressure and suction sides, total)	R	N	kW

[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**
[<] **Actual value must be less than specified value**

[X] **Applicable**
The module is valid for this product type
[-] **Non-applicable**
The module is not valid for this product type
[N] **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%)**

[A] **Design value**
Value required for the design of an external system (plant)
[R] **Guideline value**
Typical average value as information – only suitable for design purposes to a limited extent
[L] **Limit value**
A value representing the lower limit/minimum value or upper limit/maximum value that may not be exceeded. Not suitable for design purposes

Technical Sales Document
- Product Data -

Name	16V2000G25	**Speed [rpm]**	1500
Application Group	3B	**Nominal power [kW]**	810
Dataset	Ref. 25°C/-; Air charge air cooling	**Nominal power [bhp]**	1086
		Frequency [Hz]	50
Exhaust Regulations	Fuel-consumption optimized;		

63	(Case B) - fan: power consumption at 3 mbar / 300 Pa duct allowance (pressure and suction sides, total)	R	N	kW
38	(Case B) - cooling-air flow rate at 1 mbar / 100 Pa duct allowance (pressure and suction sides, total)	R	N	m³/s
39	(Case B) - cooling-air flow rate at 2 mbar / 200 Pa duct allowance (pressure and suction sides, total)	R	N	m³/s
40	(Case B) - cooling-air flow rate at 3 mbar / 300 Pa duct allowance (pressure and suction sides, total)	R	N	m³/s
64	(Case B) - fan: weight	R	N	kg
65	(Case B) - fan cooler: weight, dry (incl. pipework)	R	N	kg
42	(Case B) - fan cooler: coolant capacity	R	N	liter
43	(Case C) - fan cooler, designed for: - ambient temperature	A	N	°C
66	(Case C) - fan cooler, designed for: - site altitude, max.	A	N	m
44	(Case C) - fan cooler, designed for: - coolant antifreeze content, max.	A	N	%
67	(Case C) - fan: power consumption at 1 mbar / 100 Pa duct allowance (pressure and suction sides, total)	R	N	kW
68	(Case C) - fan: power consumption at 2 mbar / 200 Pa duct allowance (pressure and suction sides, total)	R	N	kW
69	(Case C) - fan: power consumption at 3 mbar / 300 Pa duct allowance (pressure and suction sides, total)	R	N	kW
49	(Case C) - cooling-air flow rate at 1 mbar / 100 Pa duct allowance (pressure and suction sides, total)	R	N	m³/s
50	(Case C) - cooling-air flow rate at 2 mbar / 200 Pa duct allowance (pressure and suction sides, total)	R	N	m³/s
51	(Case C) - cooling-air flow rate at 3 mbar / 300 Pa duct allowance (pressure and suction sides, total)	R	N	m³/s
70	(Case C) - fan: weight	R	N	kg
71	(Case C) - fan cooler: weight, dry (incl. pipework)	R	N	kg
53	(Case C) - fan cooler: coolant capacity	R	N	liter

21. Exhaust emissions

No.	Description	Index	Value	Unit
1972	Emissions data sheet: Fuel-consumption optimized		EDS20000079	-
307	Regulation: "TA-Luft" (Edition 1986) - CP Nitric oxide (NOx) (5% O2)	R	-	mg/m³n
308	Regulation: "TA-Luft" (Edition 1986) - CP Carbon monoxide (CO) (5% O2)	R	-	mg/m³n

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Engine power that can be run continuously under standard conditions

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Technical Sales Document
- Product Data -

Name	16V2000G25	**Speed [rpm]**	1500
Application Group	3B	**Nominal power [kW]**	810
Dataset	Ref. 25°C/-; Air charge air cooling	**Nominal power [bhp]**	1086
		Frequency [Hz]	50
Exhaust Regulations	Fuel-consumption optimized;		

309	Regulation: "TA-Luft" (Edition 1986) - CP Unburned hydrocarbons (HC)	R	-	mg/m³n
310	Regulation: "TA-Luft" (Edition 1986) - CP Dust (5% O2)	R	-	mg/m³n
366	Regulation: "TA-Luft" (Edition 1986) - CP Formaldehyde (5% O2)	R	-	mg/m³n
311	Regulation: stationary power plants in France - CP Nitric oxide (NOx) (5% O2)	R	-	mg/m³n
312	Regulation: stationary power plants in France - CP Carbon monoxide (CO) (5% O2)	R	-	mg/m³n
313	Regulation: stationary power plants in France - CP Unburned hydrocarbons (NMHC)	R	-	mg/m³n
314	Regulation: stationary power plants in France - CP Dust / particulates (5% O2)	R	-	mg/m³n
316	Regulation: US EPA "Nonroad" (40 CFR 89 - Tier 1 -) Nitric oxide (NOx)	R	-	g/kWh
317	Regulation: US EPA "Nonroad" (40 CFR 89 - Tier 1 -) Carbon monoxide (CO)	R	-	g/kWh
318	Regulation: US EPA "Nonroad" (40 CFR 89 - Tier 1 -) Unburned hydrocarbons (HC)	R	-	g/kWh
319	Regulation: US EPA "Nonroad" (40 CFR 89 - Tier 1 -) Particulates	R	-	g/kWh
320	Regulation: US EPA "Nonroad" (40 CFR 89 - Tier 2 -) Nitric oxide (NOx) + unburned hydrocarbons (HC)	R	-	g/kWh
321	Regulation: US EPA "Nonroad" (40 CFR 89 - Tier 2 -) Carbon monoxide (CO)	R	-	g/kWh
323	Regulation: US EPA "Nonroad" (40 CFR 89 - Tier 2 -) Particulates	R	-	g/kWh
436	Regulation: ARAI - CP Smoke opacity	R	-	1/m
141	Exhaust volume flow, dry - CP (standard conditions)	R	N	m³/h
143	Exhaust mass flow - CP (reference conditions)	R	N	kg/h
144	Residual oxygen content (O2) in dry exhaust - CP (standard conditions)	R	N	% (vol.)
145	Total combustion calorific value - CP	R	N	kW
37	Smoke index, BOSCH - FSP	R	0.3	-

22. Acoustics

No.	Description	Index	Value	Unit
101	Exhaust noise, unsilenced - CP (free-field sound-pressure level Lp, 1m distance, ISO 6798, +3dB(A) tolerance)	R	113	dB(A)

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[-] **Non-applicable**
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Technical Sales Document
- Product Data -

Name	16V2000G25	**Speed [rpm]**	1500
Application Group	3B	**Nominal power [kW]**	810
Dataset	Ref. 25°C/-; Air charge air cooling	**Nominal power [bhp]**	1086
		Frequency [Hz]	50
Exhaust Regulations	Fuel-consumption optimized;		

201	Exhaust noise, unsilenced - CP (sound power level LW, ISO 6798, +3dB(A) tolerance)	R	126	dB(A)
103	Exhaust noise, unsilenced - CP (free-field sound-pressure level Lp, 1m distance, ISO 6798) Spectrum No.	R	735 394e	-
203	Exhaust noise,unsilenced - CP (sound power level LW, ISO 6798) Spectrum No.	R	N	-
109	Engine surface noise with attenuated intake noise (filter) - CP (free-field sound-pressure level Lp, 1m distance, ISO 6798, +2dB(A) tolerance)	R	102	dB(A)
209	Engine surface noise with attenuated intake noise (filter) - CP (sound power level LW, ISO 6798, +2dB(A) tolerance)	R	120	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	734 368e	-
211	Engine surface noise with attenuated intake noise (filter) - CP (sound power level LW, ISO 6798) Spectrum No.	R	N	-
129	Test stand impedance spectrum, Diagram No.		N	-
130	Test stand impedance spectrum, Diagram No. (cont.)		N	-

23. TBO and load profile (case A)

No.	Description	Index	Value	Unit
15	Maintenance schedule No.		N	-
16	Maintenance schedule No. (cont.)		N	-