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Dataset

Technical Sales Document - Product Data -



Name 16V2000G65 **Application Group**

3D

Ref. 25°C/-; Air charge air cooling

Speed [rpm] Nominal power [kW] Nominal power [bhp]

Frequency [Hz]

1500 975 1307

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

	Description	ن - ام ما	Value	11
No.	Description	Index	Value	Unit
1	Fuel-consumption optimized		X	-
2	Exhaust-emissions optimized		-	
	(limit values see Exhaust Emissions, Chapter 21)			
16	Complies with: "TA-Luft" (Edition 1986)			
10	(German clean-air standard)			_
	Complies with:			
17	Regulations for stationary power plants in France		-	-
	(arrêté du 25 Juillet 1997)			
	Complies with:			
18	US EPA, regulation for nonroad engines		-	-
	(40 CFR 89 - Tier 1 -)			
	Complies with:			
25	US EPA, regulation for nonroad engines		-	-
	(40 CFR 89 - Tier 2 -)			
59	Complies with: India ARAI/2004 Stage I		-	-
0	Engine rated speed switchable			
٥	(1500/1800 rpm)		_	-
12	Engine with sequential turbocharging			
12	(turbochargers with cut-in/cut-out control)			
13	Engine without sequential turbocharging		х	
13	(turbochargers without cut-in/cut-out control)		^	_
31	Engine with air-cooled charge air		Х	-
32	Engine with water-cooled charge air (external)		-	-

1. Power-related data

No.	Description	Index	Value	Unit
1	Engine rated speed	Α	1500	rpm
3	Mean piston speed		7.5	m/s
5	Fuel stop power ISO 3046	Α	975	kW
9	Mean effective pressure (MEP)		24.5	la a c
	(Fuel stop power ISO 3046)		24.5	bar

2. General Conditions (for maximum power)

No.	Description	Index	Value	Unit
1	Intake air depression (new filter)	Α	15	mbar
2	Intake air depression, max.	L	50	mbar
3	Exhaust back pressure	Α	30	mbar
4	Exhaust back pressure, max.	L	85	mbar

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

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%)

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Technical Sales Document - Product Data -



Speed [rpm] Name 16V2000G65 1500 **Application Group** Nominal power [kW] 3D 975 Dataset Ref. 25°C/-; Air charge air cooling Nominal power [bhp] 1307 Frequency [Hz] 50

Exhaust Regulations Fuel-consumption optimized;

5	Fuel temperature at fuel feed connection	R	25	°C
6	Fuel temperature at fuel feed connection, max.	L	60	°C

3. Consumption

	or concumption			
No.	Description	Index	Value	Unit
56	Specific fuel consumption (be) - 100 % FSP	R	199	g/kWh
30	(+ 5 %; EN 590; 42.8 MJ/kg)	, n	199	g/kwn
57	Specific fuel consumption (be) - 75 % FSP	R	195	g/kWh
37	(+ 5 %; EN 590; 42.8 MJ/kg)	ĸ	195	g/kwii
58	Specific fuel consumption (be) - 50 % FSP	R	198	g/kWh
36	(+ 5 %; EN 590; 42.8 MJ/kg)	n		g/KVVII
59	Specific fuel consumption (be) - 25 % FSP	R	216	g/kWh
39	(+ 5 %; EN 590; 42.8 MJ/kg)	ĸ		g/kwii
73	No-load fuel consumption	R	16	kg/h
61	Lube oil consumption after 100 h of operation	D	0.5	% of B
61	(B = fuel consumption per hour)	R	0.5	% OI B
62	Lube oil consumption after 100 h of operation, max.		1.0	% of B
62	(B = fuel consumption per hour)	L	1.0	% OT 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		130	mhar
39	air-to-air intercooler, max.	L	130	mbar
27	Charge-air pressure before cylinder - FSP	R	3.5	bar abs

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Speed [rpm] Name 16V2000G65 1500 **Application Group** Nominal power [kW] 3D 975 Dataset Ref. 25°C/-; Air charge air cooling Nominal power [bhp] 1307 Frequency [Hz] 50

Exhaust Regulations Fuel-consumption optimized;

10	Combustion air volume flow - FSP	R	1.2	m³/s
12	Exhaust volume flow (at exhaust temperature) - FSP	R	3.3	m³/s
16	Exhaust temperature after turbocharger - FSP	R	535	°C

6. Heat dissipation

	•			
No.	Description	Index	Value	Unit
16	Heat dissipated by engine coolant - FSP	D	420	kW
10	with oil heat, without charge-air heat	K	420	KVV
27	Charge-air heat dissipation - FSP	R	200	kW
34	Radiation and convection heat, engine - FSP	R	45	kW

7. Coolant system (high-temperature circuit)

No.	Description	Index	Value	Unit
17	Coolant temperature	۸	95	°C
17	(at engine outlet to cooling equipment)	Α	93	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	А	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)	р	N	har
47	opening pressure (excess pressure)	R		bar
54	Cooling equipment: height above engine, max.	L	15.2	m
53	Cooling equipment: operating pressure	А	2.2	bar
74	Coolant level in expansion tank, below min.		V	
74	shutdown	L	X	-
40	Breather valve (expansion tank)		N	la a se
48	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			V
	charge-air coolant before intercooler	А	[K
75	Temperature differential between intake air and			K
	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
11	Lube oil pressure before engine, shutdown	L	3.9	bar

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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
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Non-applicable
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Technical Sales Document - Product Data -



Name	16V2000G65	Speed [rpm]	1500
Application Group	3D	Nominal power [kW]	975
Dataset	Ref. 25°C/-; Air charge air cooling	Nominal power [bhp]	1307
		Frequency [Hz]	50
Exhaust Regulations	Fuel-consumption optimized;		

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		2	-
21	Lube oil fine filter (main circuit):	D	0.009	mm
21	particle retention	R	0.009	mm
32	Lube oil fine filter (main circuit):		0.8	bar
32	pressure differential, max.	L	0.8	Dai

11. Fuel system

No.	Description	Index	Value	Unit	
1	Fuel pressure at fuel feed connection, min.	i	-0.3	har	
1	(when engine is starting)	L	-0.3	bar	
2	Fuel pressure at fuel feed connection, max.		0.5	bar	
4	(when engine is starting)	L	0.5	Dai	
37	Fuel supply flow, max.	А	10	liter/min	
8	Fuel return flow, max.	Α	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	Α	-	-	
16	Fuel prefilter: number of elements per unit	Α	-	-	
17	Fuel prefilter: particle retention	Α	-	mm	
18	Fuel fine filter (main circuit): number of units	Α	1	-	
19	Fuel fine filter (main circuit): number of elements per unit	Α	1	-	
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	

12. General operating data

No.	Description	Index	Value	Unit
1	Cold start capability: air temperature	R	0 **	°C
	(w/o starting aid, w/o preheating) - (case A)			
2	Additional condition (to case A):	R	N	°c
	engine coolant temperature	.,		
3	Additional condition (to case A): lube oil temperature	R	10 **	°C
4	Additional condition (to case A): lube oil viscosity	R	30 **	SAE
0	Cold start capability: air temperature	R	-10 **	°C
9	(w/o starting aid, w/ preheating) - (case C)	l,	-10	C
10	Additional condition (to case C):	R	40 **	°C
10	engine coolant temperature	l K	40 **	<u></u>
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)	R	770	Nm
20	coolant temperature +5°C	l K	770	INIII
30	Breakaway torque (without driven machinery)	D	440 *	Nim
30	coolant temperature +40°C	R	440	Nm
29	Cranking torque at firing speed (without driven machinery)	D	510 *	Nim
23	coolant temperature +5°C	R	210	Nm
31	Cranking torque at firing speed (without driven machinery)	D.	405 *	Nim
21	coolant temperature +40°C	R	403	Nm

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some applications (stabilization reserve)
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Applicable
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Application Group	3D	Nominal power [kW]	975
Dataset	Ref. 25°C/-; Air charge air cooling	Nominal power [bhp]	1307
		Frequency [Hz]	50

Evhaust Basulatia

Exhau	st Regulations Fuel-consumption optimized;			
96	Starting is blocked if the engine coolant temperature is		0	°C
50	below		O	C
	Run-up period to rated speed			
93	(with driven machinery)	R	N	S
	(* at general conditions)			
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		X	
49	(consultation required)		^	_
50	Engine mass moment of inertia	R	3.73	leam ²
30	(without flywheel)	ĸ	3.75	kgm²
52	Standard flywheel mass moment of inertia	R	2.82	kgm²
51	Engine mass moment of inertia	R	6.55	leam²
31	(with standard flywheel)	K	0.33	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
1	Starter, rated power (make BOSCH) (standard design)	R	-	kW
12	Starter, rated power (make DELCO) (standard design)	R	9.5	kW
22	Starter, rated power (make PRESTOLITE) (standard design)	R	9.2	kW
2	Starter, rated voltage (standard design)	R	24	VDC
3	Starter, rated short-circuit current (make BOSCH)	R	-	А
13	Starter, rated short-circuit current (make DELCO)	R	N	А
23	Starter, rated short-circuit current (make PRESTOLITE)	R	N	Α
4	Starter, power requirement max. (make BOSCH)	R	-	A
14	Starter, power requirement max. (make DELCO)	R	1600	А
24	Starter, power requirement max. (make PRESTOLITE)	R	1800	А
15	Starter, power requirement at firing speed (make DELCO)	R	800	Α
25	Starter, power requirement at firing speed (make PRESTOLITE)	R	800	А
6	Recommended battery capacity (automotive starter battery, DIN 72311)	А	N	Ah/20h
10	Recommended battery capacity, from (automotive starter battery, DIN 72311)	А	N	Ah/20h
11	Recommended battery capacity, to (automotive starter battery, DIN 72311)	А	N	Ah/20h
7	Recommended battery capacity (NiCd battery)	А	N	Ah/ 5h
8	Recommended battery capacity (NiCd battery, VDE 0108)	А	N	Ah/ 5h
16	Start attempt duration (engine preheated)	R	-	S
17	Start attempt duration (engine not preheated)	R	-	S
18	Start attempt duration, max.	L	6	S
2309	Manufacturer		DELCO	-

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Maximum engine power that cannot be run continuously on
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Engine power that can be run continuously under standard
conditions

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Speed [rpm] Name 16V2000G65 1500 **Application Group** Nominal power [kW] 975 Dataset Ref. 25°C/-; Air charge air cooling Nominal power [bhp] 1307 Frequency [Hz] 50

Exhaust Pogulatio

Exhaust	Regulations Fuel-consumption optimized;			
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	А
2316	Power consumption per starter	R	930	Α
2310	(at an engine speed of 100 rpm)	IN.	930	A
3000	Power consumption per starter	R		۸
3000	(at an engine speed of 100 rpm, SAE0)	l K	-	Α
3002	Power consumption per starter	R		Δ
3002	(at an engine speed of 100 rpm, SAE1)	K	-	Α
2317	Internal resistance of power supply + line resistance per starter	Α	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	R	930	A
2324	(at an engine speed of 100 rpm)	IN.	930	A
3001	Power consumption per starter	R	_	A
3001	(at an engine speed of 100 rpm, SAE0)	IN.		A
3003	Power consumption per starter	D.		^
3003	(at an engine speed of 100 rpm, SAE1)	R	-	Α
2325	Internal resistance of power supply + line resistance per starter	А	0.008	Ω
2326	Manufacturer		PRESTOLITE	-
2327	Number of starter		1	-
2328	Starter electrically redundant		-	-
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	R	830	Α
2552	(at an engine speed of 100 rpm)	IX.	030	^
3251	Power consumption per starter	R	_	A
3231	(at an engine speed of 100 rpm, SAE0)	IX.		r
3252	Power consumption per starter	R		A
	(at an engine speed of 100 rpm, SAE1)	IX		^
2333	Internal resistance of power supply + line resistance per starter	Α	0.005	Ω
2334	Manufacturer		PRESTOLITE	-
2335	Number of starter		2	-
2336	Starter electrically redundant		Х	-
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	R	830	А
	(at an engine speed of 100 rpm)		1-30	, ,
3372	Power consumption per starter	R	-	А
3372	(at an engine speed of 100 rpm, SAE0)	I.		^
3373	Power consumption per starter	R	_	A
3373	(at an engine speed of 100 rpm, SAE1)	IV.		
2341	Internal resistance of power supply + line resistance per starter	А	0.005	Ω
3374	Manufacturer		PRESTOLITE	-
	Number of starter		2	
3375 3376	Starter electrically redundant		2	-

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Exhaust Regulations Fuel-consumption ontimized.

Regulations Fuel-consumption optimized;			
Rated power per starter	R	9	kW
Starter, rated voltage	R	24	VDC
Rated short-circuit current per starter	L	1900	Α
Power consumption per starter	0	820	
(at an engine speed of 100 rpm)	K	830	A
Power consumption per starter	_		
(at an engine speed of 100 rpm, SAE0)	K	-	A
Power consumption per starter			
(at an engine speed of 100 rpm, SAE1)	K	-	A
Internal resistance of power supply + line resistance per starter	Α	0.005	Ω
Generally valid data for starter		Х	-
Rated starting-attempt Duration (at +20°C ambient temperature with battery	R	3	S
Interval between starts		F	
(at rated starting-attempt duration), min.	L	3	S
Maximum acceptable starting-attempt duration	L	15	S
Interval between starts	_	60	
(when starting-attempt duration > rated starting-attempt duration)	K	60	S
Starting attempts within 30 minutes		c	
(at +20°C ambient temperature with battery full), max.	L	р	-
	Rated power per starter Starter, rated voltage Rated short-circuit current per starter Power consumption per starter (at an engine speed of 100 rpm) Power consumption per starter (at an engine speed of 100 rpm, SAE0) Power consumption per starter (at an engine speed of 100 rpm, SAE1) Internal resistance of power supply + line resistance per starter Generally valid data for starter Rated starting-attempt Duration (at +20°C ambient temperature with battery Interval between starts (at rated starting-attempt duration), min. Maximum acceptable starting-attempt duration Interval between starts (when starting-attempt duration > rated starting-attempt duration) Starting attempts within 30 minutes	Rated power per starter Starter, rated voltage Rated short-circuit current per starter Power consumption per starter (at an engine speed of 100 rpm) Power consumption per starter (at an engine speed of 100 rpm, SAE0) Power consumption per starter (at an engine speed of 100 rpm, SAE1) Internal resistance of power supply + line resistance per starter Rated starting-attempt Duration (at +20°C ambient temperature with battery Interval between starts (at rated starting-attempt duration), min. Maximum acceptable starting-attempt duration L Interval between starts (when starting-attempt duration > rated starting-attempt duration) Starting attempts within 30 minutes	Rated power per starter Starter, rated voltage Rated short-circuit current per starter Power consumption per starter (at an engine speed of 100 rpm) Power consumption per starter (at an engine speed of 100 rpm, SAE0) Power consumption per starter (at an engine speed of 100 rpm, SAE0) Power consumption per starter (at an engine speed of 100 rpm, SAE1) Internal resistance of power supply + line resistance per starter Rated starting-attempt Duration (at +20°C ambient temperature with battery Interval between starts (at rated starting-attempt duration), min. Maximum acceptable starting-attempt duration Interval between starts (when starting-attempt duration > rated starting-attempt duration) Starting attempts within 30 minutes

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
19	Start attempt duration (engine not preheated)	R	N	S
20	Start attempt duration, max.	L	N	S
24	Air consumption/start attempt		0.83	3
21	(engine preheated)	R	0.83	m³n
23	Starting air tank for 3 start attempts	0	N	likan
23	(max. 40 bar) (engine preheated)	R	IN .	liter
24	arting air tank for 3 start attempts	R	N	liter
24	(max. 30 bar) (engine preheated)			
25	Starting air tank for 6 start attempts	0	N	lia
25	(max. 40 bar) (engine preheated)	R	N	liter
26	Starting air tank for 6 start attempts		N	lika
20	(max. 30 bar) (engine preheated)	R	IN .	liter
27	Starting air tank for 10 start attempts		N	lika u
27	(max. 40 bar) (engine preheated)	R	N	liter
20	Starting air tank for 10 start attempts	В	N	litor
28	(max. 30 bar) (engine preheated)	R	IN .	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)			

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Exhaust Regulations Fuel-consumption optimized;

Ī		Longitudinal inclination, continuous max.			
17	17	driving end up	L 5	L 5	degrees (°)
		(Option: max. operating inclinations)			
19	10	Transverse inclination, continuous max.		10	dograps (°)
	13	(Option: max. operating inclinations)	L		degrees (°)

18. Capacities

10. 0	apacities			
No.	Description	Index	Value	Unit
1	Engine coolant capacity (without cooling equipment)	R	110	liter
11	On-engine fuel capacity	R	5	liter
	Engine oil capacity, initial filling			
14	(standard oil system)	R	102	liter
	(Option: max. operating inclinations)			
	Oil change quantity, max.			
20	(standard oil system)	R	99	liter
	(Option: max. operating inclinations)			
	Oil pan capacity, dipstick mark min.			
28	(standard oil system)	L	69	liter
	(Option: max. operating inclinations)			
	Oil pan capacity, dipstick mark max.			
29	(standard oil system)	L	92	liter
	(Option: max. operating inclinations)			

19. Masses / dimensions

No.	Description	Index	Value	Unit
	Engine mass, dry			
9	(basic engine configuration acc. to	R	3100	kg
	scope of supply specification)			
	Engine mass, wet			
10	(basic engine configuration acc. to	R	3310	kg
	scope of supply specification)			

20. Fan / fan cooler

No.	Description	Index	Value	Unit
3	Fan, pusher-type		х	-
18	Fan arrangement: vertical above crankshaft		Х	-
9	Fan drive: mechanical via V-belt		Х	-
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	А	N	°C
54	(Case A) - fan cooler, designed for: - site altitude, max.	А	N	m
22	(Case A) - fan cooler, designed for: - coolant antifreeze content, max.	А	N	%
55	(Case A) - fan: power consumption at 1 mbar / 100 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%)

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Speed [rpm] Name 16V2000G65 1500 **Application Group** Nominal power [kW] 975 3D Dataset Ref. 25°C/-; Air charge air cooling Nominal power [bhp] 1307 Frequency [Hz] 50

Exhau	st Regulations Fuel-consumption optimized;		-4	
	(Case A) - fan: power consumption			
56	at 2 mbar / 200 Pa duct allowance	R	N	kW
	(pressure and suction sides, total)			
	(Case A) - fan: power consumption			
57	at 3 mbar / 300 Pa duct allowance	R	N	kW
·	(pressure and suction sides, total)			
	(Case A) - cooling-air flow rate			
27	at 1 mbar / 100 Pa duct allowance	R	N	m³/s
	(pressure and suction sides, total)			/ 3
	(Case A) - cooling-air flow rate			
28	at 2 mbar / 200 Pa duct allowance	R	N	m³/s
	(pressure and suction sides, total)		, ·	111 / 3
	(Case A) - cooling-air flow rate			
29	at 3 mbar / 300 Pa duct allowance	R	N	m³/s
23	(pressure and suction sides, total)	IN.		111 /3
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
	(Case B) - fan cooler, designed for:			
32	- ambient temperature	А	N	°C
	(Case B) - fan cooler, designed for:			
60	- site altitude, max.	Α	N	m
	(Case B) - fan cooler, designed for:			
33	- coolant antifreeze content, max.	A	N	%
	(Case B) - fan: power consumption			
61	at 1 mbar / 100 Pa duct allowance	R	N	kW
	(pressure and suction sides, total)			
	(Case B) - fan: power consumption			
62	at 2 mbar / 200 Pa duct allowance	R	N	kW
-	(pressure and suction sides, total)			
	(Case B) - fan: power consumption			
63	at 3 mbar / 300 Pa duct allowance	R	N	kW
	(pressure and suction sides, total)	.,		
	(Case B) - cooling-air flow rate			
38	at 1 mbar / 100 Pa duct allowance	R	N	m³/s
	(pressure and suction sides, total)			/ 3
	(Case B) - cooling-air flow rate			
39	at 2 mbar / 200 Pa duct allowance	R	N	m³/s
33	(pressure and suction sides, total)		, ·	111 / 3
	(Case B) - cooling-air flow rate			
40	at 3 mbar / 300 Pa duct allowance	R	N	m³/s
10	(pressure and suction sides, total)		1	111 / 3
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
	(Case C) - fan cooler, designed for:			
43	- ambient temperature	Α	N	°C
	(Case C) - fan cooler, designed for:			
66	- site altitude, max.	Α	N	m
	(Case C) - fan cooler, designed for:			
44	- coolant antifreeze content, max.	Α	N	%
	1			

BL Reference value: fuel stop power
Maximum engine powerthat 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

Applicable
The module is valid for this product type

Non-applicable
Walter to 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%)
AB Adequate verification not yet available (tolerance +/-5%)

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Speed [rpm] Name 16V2000G65 1500 **Application Group** Nominal power [kW] 975 Dataset Ref. 25°C/-; Air charge air cooling Nominal power [bhp] 1307 Frequency [Hz] 50

Exhaust Pogulatio

Exhau	Exhaust Regulations Fuel-consumption optimized;				
	(Case C) - fan: power consumption				
67	at 1 mbar / 100 Pa duct allowance	R	N	kW	
	(pressure and suction sides, total)				
	(Case C) - fan: power consumption				
68	at 2 mbar / 200 Pa duct allowance	R	N	kW	
	(pressure and suction sides, total)				
	(Case C) - fan: power consumption				
69	at 3 mbar / 300 Pa duct allowance	R	N	kW	
	(pressure and suction sides, total)				
	(Case C) - cooling-air flow rate				
49	at 1 mbar / 100 Pa duct allowance	R	N	m³/s	
	(pressure and suction sides, total)				
	(Case C) - cooling-air flow rate				
50	at 2 mbar / 200 Pa duct allowance	R	N	m³/s	
	(pressure and suction sides, total)				
	(Case C) - cooling-air flow rate				
51	at 3 mbar / 300 Pa duct allowance	R	N	m³/s	
	(pressure and suction sides, total)				
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:		EDS20000083	
1372	Fuel-consumption optimized		LD320000003	
350	Regulation: "TA-Luft" (Edition 1986) - FSP	R		mg/m³n
330	Nitric oxide (NOx) (5% O2)	IX		ilig/ili il
351	Regulation: "TA-Luft" (Edition 1986) - FSP	R		mg/m³n
331	Carbon monoxide (CO) (5% O2)	11		111g/111 11
352	Regulation: "TA-Luft" (Edition 1986) - FSP	R	_	mg/m³n
332	Unburned hydrocarbons (HC)	IX.		111g/111 11
353	Regulation: "TA-Luft" (Edition 1986) - FSP	R	_	mg/m³n
333	Dust (5% O2)	11		111g/111 11
367	Regulation: "TA-Luft" (Edition 1986) - FSP	R	_	mg/m³n
307	Formaldehyde (5% O2)	ı,		1116/11111
354	Regulation: stationary power plants in France - FSP	R	-	mg/m³n
334	Nitric oxide (NOx) (5% O2)	1,		1116/11111
355	Regulation: stationary power plants in France - FSP	R	-	mg/m³n
333	Carbon monoxide (CO) (5% O2)	ı,		1116/11111
356	Regulation: stationary power plants in France - FSP	R		mg/m³n
330	Unburned hydrocarbons (NMHC)	11		1116/11111
357	Regulation: stationary power plants in France - FSP	R		mg/m³n
337	Dust / particulates (5% O2)	IX		IIIg/III II
	Regulation: US EPA "Nonroad"			
316	(40 CFR 89 - Tier 1 -)	R	-	g/kWh
	Nitric oxide (NOx)			
	Regulation: US EPA "Nonroad"			
317	(40 CFR 89 - Tier 1 -)	R	-	g/kWh
	Carbon monoxide (CO)			

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some applications (stabilization reserve)
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conditions

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Actual value must be less than specified value

Applicable
The module is valid for this product type

Non-applicable
Walter to 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%)

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Exhaust Beaulations

Exhaus	t Regulations Fuel-consumption optimized;			
	Regulation: US EPA "Nonroad"			
318	(40 CFR 89 - Tier 1 -)	R	-	g/kWh
	Unburned hydrocarbons (HC)			
	Regulation: US EPA "Nonroad"			
319	(40 CFR 89 - Tier 1 -)	R	-	g/kWh
	Particulates			
	Regulation: US EPA "Nonroad"			
320	(40 CFR 89 - Tier 2 -)	R	-	g/kWh
	Nitric oxide (NOx) + unburned hydrocarbons (HC)			
	Regulation: US EPA "Nonroad"			
321	(40 CFR 89 - Tier 2 -)	R	-	g/kWh
	Carbon monoxide (CO)			
	Regulation: US EPA "Nonroad"			
323	(40 CFR 89 - Tier 2 -)	R	-	g/kWh
	Particulates			
436	Regulation: ARAI - CP	R		1/m
430	Smoke opacity	ĸ	-	1/111
152	Exhaust volume flow, dry - FSP	R	N	m³/h
132	(standard conditions)	N	IV.	111 /11
154	Exhaust mass flow - FSP	R	N	kg/h
134	(reference conditions)	IX.	IV.	Ng/11
155	Residual oxygen content (O2) in dry exhaust - FSP	R	N	% (vol.)
133	(standard conditions)	N.	14	70 (VOI.)
156	Total combustion calorific value - FSP	R	N	kW

22. Acoustics

No.	Description	Index	Value	Unit
102	Exhaust noise, unsilenced - FSP (free-field sound-pressure level Lp, 1m distance,		117	4D(A)
102	ISO 6798, +3dB(A) tolerance)	R		dB(A)
202	Exhaust noise, unsilenced - FSP	R	129	dB(A)
	(sound power level LW, ISO 6798, +3dB(A) tolerance)		-	5 (· ·)
	Exhaust noise, unsilenced - FSP			
104	(free-field sound-pressure level Lp, 1m distance,	R	735 399e	-
	ISO 6798) Spectrum No.			
	Exhaust noise,unsilenced - FSP			
204	(sound power level LW, ISO 6798)	R	N	-
	Spectrum No.			
	Engine surface noise with attenuated			
110	intake noise (filter) - FSP	R	103	4D(A)
110	(free-field sound-pressure level Lp, 1m distance,			dB(A)
	ISO 6798, +2dB(A) tolerance)			
	Engine surface noise with attenuated			
210	intake noise (filter) - FSP	R	R 121	dB(A)
	(sound power level LW, ISO 6798, +2dB(A) tolerance)			
	Engine surface noise with attenuated			
442	intake noise (filter) - FSP	R	724 220-	
112	(free-field sound-pressure level Lp, 1m distance,		734 330e	-
	ISO 6798) Spectrum No.			

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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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Actual value must be less than specified value

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

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Speed [rpm] Name 16V2000G65 1500 **Application Group** Nominal power [kW] 975 3D Dataset Ref. 25°C/-; Air charge air cooling Nominal power [bhp] 1307 Frequency [Hz] 50

Exhaust Regulations Fuel-consumption optimized;

212	Engine surface noise with attenuated intake noise (filter) - FSP (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	-	

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Actual value must be less than specified value

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