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Name 16V4000G74S

Application Group 3D

Dataset Ref. 25°C/55°C Speed [rpm] 1800 Nominal power [kW] 2280 Nominal power [bhp] 3058 Frequency [Hz]

Exhaust Regulations Fuel-consumption optimized;

Reference conditions

No.	Description	Index	Value	Unit
6	Intake air temperature		25	°C
7	Charge-air coolant temperature		55	°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
0	Engine rated speed switchable			
0	(1500/1800 rpm)			-
112	Engine with sequential turbocharging			
	(turbochargers with cut-in/cut-out control)			-
12	Engine without sequential turbocharging		v	
13	(turbochargers without cut-in/cut-out control)	^		- I

1. Power-related data

No.	Description	Index	Value	Unit
1	Engine rated speed	Α	1800	rpm
2	Reduction gear - Output speed	Α	-	rpm
3	Mean piston speed		12.6	m/s
5	Fuel stop power ISO 3046	Α	2280	kW
0	Mean effective pressure (MEP)		19.9	la a u
9	(Fuel stop power ISO 3046)		19.9	bar
18	Performance map No.		-	-
38	Performance map No. (cont.)		-	-
20	Performance map, amendment index		-	-

2. General Conditions (for maximum power)

No.	Description	Index	Value	Unit
46	Individual power calculation (ESCM)		v	
40	required for maximum power		^	-
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
5	Fuel temperature at fuel feed connection	R	25	°C
0	Fuel temperature at fuel feed connection, max.		55	°C
9	(w/o power reduction)	L .	33	C
10	Fuel temperature at fuel feed connection, max.	L	55	°C
18	Fuel temperature at fuel feed connection, min.	L	-	°C

3. Consumption

No.	Description	Index	Value	Unit
17	Specific fuel consumption (be) - 100 % CP	В		a/k/A/b
	(+ 5 %; EN 590; 42.8 MJ/kg)	R	-	g/kWh

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 16V4000G74S 1800 **Application Group** Nominal power [kW] 2280 3D Dataset Ref. 25°C/55°C Nominal power [bhp] 3058 Frequency [Hz] 60

Exhaust Regulations Fuel-consumption ontimized:

Exnau	Exhaust Regulations Fuel-consumption optimized;				
18	Specific fuel consumption (be) - 75 % CP	R		g/kWh	
10	(+ 5 %; EN 590; 42.8 MJ/kg)	IX		g/ KVV11	
19	Specific fuel consumption (be) - 50 % CP	R	_	g/kWh	
13	(+ 5 %; EN 590; 42.8 MJ/kg)	"		6/ 17 11	
20	Specific fuel consumption (be) - 25 % CP	R	_	g/kWh	
	(+ 5 %; EN 590; 42.8 MJ/kg)	"		6/ 17711	
21	Specific fuel consumption (be) - FSP	R		g/kWh	
	(+ 5 %; EN 590; 42.8 MJ/kg)	"		6/ 17 11	
56	Specific fuel consumption (be) - 100 % FSP	R	202	g/kWh	
30	(+ 5 %; EN 590; 42.8 MJ/kg)	"	202	6/ 17711	
57	Specific fuel consumption (be) - 75 % FSP	R	200	g/kWh	
<i>3</i> ,	(+ 5 %; EN 590; 42.8 MJ/kg)	"		8/ K***	
58	Specific fuel consumption (be) - 50 % FSP	R	209	g/kWh	
50	(+ 5 %; EN 590; 42.8 MJ/kg)	IX			
59	Specific fuel consumption (be) - 25 % FSP	R	240	g/kWh	
	(+ 5 %; EN 590; 42.8 MJ/kg)	IX.			
73	No-load fuel consumption	R	39.0	kg/h	
	Lube oil consumption after 100 h of operation				
	(B = fuel consumption per hour)				
92	Guideline value does not apply for the design	R	0.3	% 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.	L	1.0	% of B	
02	(B = fuel consumption per hour)	L	1.0	% OL R	

4. Model-related data (basic design)

No.	Description	Index	Value	Unit
1	Naturally aspirated engine		-	-
2	Engine with exhaust turbocharger (ETC)		-	-
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 (°)
8	Cylinder configuration: in-line vertical		-	-
10	Bore		170	mm
11	Stroke		210	mm
12	Displacement, cylinder		4.77	liter
13	Displacement, total		76.3	liter
14	Compression ratio		16.4	-
40	Cylinder heads: single-cylinder		x	-
41	Cylinder liners: wet, replaceable		X	-
42	Piston design: composite piston		-	-
49	Piston design: solid-skirt piston		X	-
21	Number of piston compression rings		2	-
22	Number of piston oil control rings		1	-
24	Number of inlet valves, per cylinder		2	-
25	Number of exhaust valves, per cylinder		2	-
15	Number of turbochargers		4	-

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

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

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Speed [rpm] Name 16V4000G74S 1800 **Application Group** Nominal power [kW] 2280 3D Dataset Ref. 25°C/55°C Nominal power [bhp] 3058 Frequency [Hz] 60

Exhaust Regulations Fuel-consumption optimized;

16	Number of L.P. turbochargers		4	-
17	Number of H.P. turbochargers		-	-
18	Number of intercoolers		1	-
19	Number of L.P. intercoolers		1	-
20	Number of H.P. intercoolers		-	-
28	Standard flywheel housing flange (engine main PTO)		00	SAE
50	Static bending moment at standard		15	la Ni ma
50	flywheel housing flange, max.	L	15	kNm
F 1	Dynamic bending moment at standard		75	la Nimo
51	flywheel housing flange, max.	L	/5	kNm
43	Flywheel interface (DISC)		21	-

5. Combustion air / exhaust gas

No.	Description	Index	Value	Unit
8	Charge-air pressure before cylinder - CP	R	-	bar abs
27	Charge-air pressure before cylinder - FSP	R	3.1	bar abs
9	Combustion air volume flow - CP	R	-	m³/s
10	Combustion air volume flow - FSP	R	3.1	m³/s
11	Exhaust volume flow (at exhaust temperature) - CP	R	-	m³/s
12	Exhaust volume flow (at exhaust temperature) - FSP	R	7.6	m³/s
13	Exhaust temperature before turbocharger - CP	R	-	°C
14	Exhaust temperature before turbocharger - FSP	R	655	°C
15	Exhaust temperature after turbocharger - CP	R	-	°C
16	Exhaust temperature after turbocharger - FSP	R	465	°C
17	Exhaust temperature after engine - CP	R	-	°C
18	Exhaust temperature after engine - FSP	R	465	°C

6. Heat dissipation

No.	Description	Index	Value	Unit
0	Heat dissipated by engine coolant - CP	р		LAAZ
9	with oil heat	R	-	kW
11	Heat dissipation by engine coolant - CP	٨		kW
11	with oil heat, with charge-air heat	A	-	KVV
60	Heat dissipated by engine coolant - CP	р		kW
00	(high-temperature circuit)	R	[KVV
61	Heat dissipated by engine coolant - CP	D		LAAZ
01	(low-temperature circuit)	R	-	kW
13	Heat dissipated by engine coolant - CP	р	-	kW
13	without oil heat, with charge-air heat	R		
15	Heat dissipated by engine coolant - CP	D	-	kW
15	with oil heat, without charge-air heat	R		
16	Heat dissipated by engine coolant - FSP	R	840	kW
10	with oil heat, without charge-air heat	K		
17	Heat dissipated by engine coolant - CP	D	-	kW
17	without oil heat, without charge-air heat	R		KVV
22	Heat dissipated by oil - CP	R	-	kW
24	Charge-air and oil heat dissipation - CP	R	-	kW
26	Charge-air heat dissipation - CP	R	-	kW
27	Charge-air heat dissipation - FSP	R	560	kW
38	Heat dissipated by exhaust gas - CP	R	-	kW
31	Heat dissipated by return fuel flow - CP	R	-	kW
32	Heat dissipated by return fuel flow - FSP	R	6	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

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 16V4000G74S 1800 **Application Group** Nominal power [kW] 3D 2280 Dataset Ref. 25°C/55°C Nominal power [bhp] 3058 Frequency [Hz]

Exhaust Regulations Fuel-consumption optimized;

33	Radiation and convection heat, engine - CP	R	-	kW
34	Radiation and convection heat, engine - FSP	R	90	kW
35	Radiation and convection heat, genset - CP	R		kW
	(engine + generator + 10m insulated exhaust pipework)			KVV

7. Coolant system (high-temperature circuit)

No.	Description	Index	Value	Unit
17	Coolant temperature		100	°C
17	(at engine outlet to cooling equipment)	Α	100	
57	Coolant temperature differential after/before engine, from	R	7	K
58	Coolant temperature differential after/before engine, to	R	9	K
23	Coolant temperature differential after/before engine	L	11	K
20	Coolant temperature after engine, limit 1	L	102	°C
21	Coolant temperature after engine, limit 2	L	104	°C
25	Coolant antifreeze content, max.	L	50	%
30	Cooling equipment: coolant flow rate	Α	81	m³/h
31	Coolant pump: pressure differential	R	3.5	bar
35	Coolant pump: inlet pressure, min.	L	0.5	bar
36	Coolant pump: inlet pressure, max.	L	2.5	bar
39	Engine: coolant pressure differential	R	2.8	har
39	with thermostat	l n	2.0	bar
41	Pressure loss in off-engine cooling system, max.	L	0.7	bar
72	Pressure loss in off-engine cooling system, min.	L	0.55	bar
43	Pressure loss in off-engine cooling system, max.		0.7	1
43	without thermostat	L	0.7	bar
70	Pressure loss in off-engine cooling system, min.		0.55	l
70	without thermostat	L		bar
45	Flow resistance (X) coefficient	_	0.53	1 // 3/1/2
45	engine w/ thermostat, w/o cooling equipment	R	0.53	mbar/(m³/h)²
	Breather valve (expansion tank)	_	4.0	
47	opening pressure (excess pressure)	R	1.0	bar
54	Cooling equipment: height above engine, max.	L	15	m
53	Cooling equipment: operating pressure	Α	2.5	bar
70	Coolant level in expansion tank, below min.			
73	alarm	lr L	-	-
74	Coolant level in expansion tank, below min.		V	
74	shutdown	L	Х	-
50	Thermostat, starts to open	R	79	°C
51	Thermostat, bypass closed	R	92	°C
52	Thermostat, fully open	R	92	°C
40	Breather valve (expansion tank)		0.4	
48	opening pressure (depression)	R	-0.1	bar
49	Pressure in cooling system, max.	L	5.0	bar

8. Coolant system (low-temperature circuit)

No.	Description	Index	Value	Unit	
F2	Coolant temperature	D	70	°C	
53	(at engine outlet to cooling equipment)	K	70	1	
0	Coolant temperature before intercooler	^	55	86	
9	(at engine inlet from cooling equipment)	А	35	C	
14	Coolant temperature before intercooler, limit 1	L	75	°C	
61	Coolant temperature before intercooler, shutdown	L	-	°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
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%)

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

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Speed [rpm] Name 16V4000G74S 1800 **Application Group** Nominal power [kW] 2280 3D Dataset Ref. 25°C/55°C Nominal power [bhp] 3058 Frequency [Hz] 60

20 Cooling equipment: coolant flow rate 21 Intercooler: coolant flow rate 22 Coolant pump: pressure differential 23 Coolant pump: pressure differential 24 Coolant pump: inlet pressure, min. 25 Coolant pump: inlet pressure, max. 26 Pressure loss in off-engine cooling system, max. 27 Pressure loss in off-engine cooling system, max. 28 Pressure loss in off-engine cooling system, max. 30 Pressure loss in off-engine cooling system, max. 31 Pressure loss in off-engine cooling system, max. 32 Pressure loss in off-engine cooling system, max. 33 Pressure loss in off-engine cooling system, max. 34 Cooling equipment: height above engine, max. 35 Breather valve (expansion tank) 36 Opening pressure (excess pressure) 37 Breather valve (expansion tank) 38 Opening pressure (depression) 40 Cooling equipment: operating pressure 41 Cooling equipment: operating pressure 42 Cooling equipment: operating pressure 43 Coolant level in expansion tank, below min. 44 Coolant level in expansion tank, below min. 45 Coolant level in expansion tank, below min. 46 Coolant level in expansion tank, below min. 47 Soolant level in expansion tank, below min. 48 Coolant level in expansion tank, below min. 49 Thermostat, starts to open 40 Thermostat, starts to open 41 Thermostat, starts to open 42 Thermostat, starts to open 43 Thermostat, bypass closed	Exhau	st Regulations Fuel-consumption optimized;			
intercooler, min. Coolant temperature differential after/before intercooler, max. 13 Coolant temperature after intercooler, max. 14 So So % Coolant temperature after intercooler, max. 15 Charge-air temperature after intercooler, max. 16 Temperature differential between intake air and charge-air coolant before intercooler and charge-air coolant before intercooler and charge-air coolant before intercooler, max. 17 Emperature differential between intake air and charge-air coolant before intercooler, max. 18 Charge-air temperature after intercooler, max. 19 Coolant before intercooler, max. 20 Coolant before intercooler, max. 21 L - °C 22 Coolant pump: flow rate 23 So So m³/h 24 Coolant pump: flow rate 25 Coolant pump: pressure differential 26 Coolant pump: pressure differential 27 Coolant pump: pressure differential 28 Coolant pump: pressure differential 29 Pressure loss in off-engine cooling system, max. 20 Coolant pump: indet pressure, max. 20 Coolant pump: indet pressure, max. 21 Do So Do Bar 22 Coolant pump: indet pressure, max. 23 Pressure loss in off-engine cooling system, max. 29 Pressure loss in off-engine cooling system, min. 20 Pressure loss in off-engine cooling system, min. 20 Pressure loss in off-engine cooling system, max. 21 Do To Do Bar 22 Pressure loss in off-engine cooling system, max. 23 Pressure loss in off-engine cooling system, min. 24 Cooling equipment: height above engine, max. 25 Do Bar 26 Pressure loss in off-engine cooling system, min. 26 Pressure loss in off-engine cooling system, min. 27 Breather valve (expansion tank) 28 Opening pressure (excess pressure) 39 Breather valve (expansion tank) 29 Opening pressure (excess pressure) 30 Breather valve (expansion tank) 31 Opening pressure (excess pressure) 32 Breather valve (expansion tank) 33 Opening pressure (excess pressure) 34 Cooling equipment: operating pressure 35 A Coolant level in expansion tank, below min. 36 Coolant level in expansion tank, below min. 39 Thermostat, bypass closed 30 The	15	Coolant temperature before intercooler, limit 2	L	-	°C
intercooler, min. Coolant temperature differential after/before intercooler, max. L 17 K	- 4	Coolant temperature differential after/before		12	V
intercooler, max. 13 Coolant antifreeze content, max. L 50 %	54	intercooler, min.	L	13	K
intercooler, max. 1 Coolant antifreeze content, max. 1 Charge-air temperature after intercooler, max. 1 Charge-air temperature differential between intake air and charge-air coolant before intercooler 2 Temperature differential between intake air and charge-air coolant before intercooler, max. 3 Temperature differential between intake air and charge-air coolant before intercooler, max. 4 Emperature differential between intake air and charge-air coolant before intercooler, max. 5 Charge-air coolant before intercooler, max. 5 Coolant pump: flow rate 6 Coolant pump: flow rate 7 C Cooling equipment: coolant flow rate 8 Coolant pump: pressure differential 8 Coolant pump: pressure differential 9 Coolant pump: pressure differential 1 Coolant pump: inlet pressure, min. 1 Coolant pump: inlet pressure, min. 2 Coolant pump: inlet pressure, min. 3 Coolant pump: inlet pressure, min. 4 Coolant pump: inlet pressure, min. 5 Coolant pump: inlet pressure, min. 6 Pressure loss in off-engine cooling system, max. 2 Without thermostat 3 Cooling equipment: height above engine, max. 4 Cooling equipment: height above engine, max. 5 Coolant pump: height pressure (excess pressure) 8 Pressure (expansion tank) 9 Cooling equipment: height above engine, max. 1 Cooling equipment: height above engine, max. 2 Cooling equipment: height above engine, max. 4 Cooling equipment: height above engine, max. 4 Cooling equipment: height above engine, max. 5 Pressure (expansion tank) 9 Coolant (expansion tank) below min. 1 A Coolant (expansion tank) below min. 1 A Coolant (expansion tank) below min. 2 Coolant (expansion tank) below min. 3 Coolant (expansion tank) below min. 4 Coolant (expansion tank) below min. 5 Pressure (expansion tank) below min. 6 Coolant (expansion tank) below min. 6 Coolant (expansion tank) below min. 7 Pressure (expansion tank) below min. 8 Pressure (ex		Coolant temperature differential after/before		4.7	.,
Temperature differential between intake air and charge-air coolant before intercooler and charge-air coolant before intercooler, max. Temperature differential between intake air and charge-air coolant before intercooler, max. Charge-air coolant before intercooler, max. Charge-air temperature after intercooler, max. Coolant pump: flow rate A 35.5 m³/h A 35.5 m³/h A 35.5 m³/h Dar 20 Coolant pump: flow rate A 35.5 m³/h Dar 21 Dar 21 Dar 22 Coolant pump: pressure differential R 2.1 bar Dar 21 Dar 22 Coolant pump: inlet pressure, min. L 0.5 bar Pressure loss in off-engine cooling system, max. L 0.7 bar Dar 25 Coolant pump: inlet pressure, max. L 0.7 bar Pressure loss in off-engine cooling system, max. L 0.7 bar Dar 25 Pressure loss in off-engine cooling system, max. L 0.7 bar Dar 25 Dar 26 Pressure loss in off-engine cooling system, max. L 0.7 bar Dar 27 Dar 28 Dar 29 Pressure loss in off-engine cooling system, max. L 0.7 bar Dar 29 Pressure loss in off-engine cooling system, max. L 0.7 bar Dar 20 Dar 2	55	intercooler, max.	L	17	K
Temperature differential between intake air and charge-air coolant before intercooler Temperature differential between intake air and charge-air coolant before intercooler Temperature differential between intake air and charge-air coolant before intercooler, max. L 32 K K L 32 C L	13	Coolant antifreeze content, max.	L	50	%
charge-air coolant before intercooler Temperature differential between intake air and charge-air coolant before intercooler, max. L 32 K Secondary and the fore intercooler, max. L 32 K Secondary and the fore intercooler, max. L 32 K Secondary and the fore intercooler, max. Secondary and the fore intercooler and the fore intercooler, max. Secondary and the fore intercooler, max. Secondary and the fore intercooler and the fore intercool	17	Charge-air temperature after intercooler, max.	L	80	°C
Charge-air coolant betore intercooler Charge-air coolant between intake air and charge-air coolant before intercooler, max.	7.0	Temperature differential between intake air and		20	
Charge-air coolant before intercooler, max. Charge-air temperature after intercooler, max. for compliance with "TA-Luft" at CP Coolant pump: flow rate Coolant pump: flow rate Coolant pump: pressure differential Coolant pump: inlet pressure, min. Coolant pump: inlet pressure, min. Coolant pump: inlet pressure, max. Coolant pump: inlet pressure, min. Coolant pump: inlet pressure, max. Loof. Pressure loss in off-engine cooling system, max. Pressure loss in off-engine cooling system, min. Cooling equipment: height above engine, max. Breather valve (expansion tank) opening pressure (excess pressure) Pressure (excess pressure) Roof. Coolant level in expansion tank, below min. alarm Coolant level in expansion tank, below min. shutdown Roof. Coolant level in expansion tank, below min. shutdown Roof.	76	charge-air coolant before intercooler	Α	30	K
Charge-air coolant before intercooler, max. Charge-air temperature after intercooler, max. for compliance with "TA-Luft" at CP Coolant pump: flow rate Cooling equipment: coolant flow rate Cooling equipment: coolant flow rate Coolant pump: pressure differential Coolant pump: pressure differential Coolant pump: inlet pressure, min. Coolant pump: inlet pressure, min. Coolant pump: inlet pressure, max. Coolant pump: inlet pressure, max. Pressure loss in off-engine cooling system, max. Pressure loss in off-engine cooling system, max. Pressure loss in off-engine cooling system, max. Cooling equipment: height above engine, max. Cooling equipment: height above engine, max. Breather valve (expansion tank) opening pressure (excess pressure) Breather valve (expansion tank) opening pressure (depression) Coolant level in expansion tank, below min. Coolant level in expansion tank, below min. An	75	Temperature differential between intake air and		22	.,
for compliance with "TA-Luft" at CP Coolant pump: flow rate Coolant pump: flow rate Coolant pump: flow rate Coolant pump: pressure differential Coolant pump: pressure differential Coolant pump: inlet pressure, min. Coolant pump: inlet pressure, max. L 0.5 bar Pressure loss in off-engine cooling system, max. L 0.7 bar Pressure loss in off-engine cooling system, min. L 0.55 bar Pressure loss in off-engine cooling system, min. L 0.55 bar Pressure loss in off-engine cooling system, min. L 0.55 bar Pressure loss in off-engine cooling system, min. L 0.55 bar Coolant pump: help the system, min. L 0.55 bar Breather valve (expansion tank) opening pressure (excess pressure) R 1.0 bar Breather valve (expansion tank) opening pressure (excess pressure) R 2.5 bar Coolant level in expansion tank, below min. alarm Coolant level in expansion tank, below min. shutdown L X Thermostat, bypass closed R 38 °C Thermostat, bypass closed R 38 °C Thermostat, bypass closed	/5	charge-air coolant before intercooler, max.	L	32	K
for compliance with "IA-Luft" at CP Coolant pump: flow rate Cooling equipment: coolant flow rate R 35.5 m³/h 1 intercooler: coolant flow rate R 35.5 m³/h 1 intercooler: coolant flow rate R 35.5 m³/h 1 intercooler: coolant flow rate R 35.5 m³/h 2 Coolant pump: pressure differential R 2.1 bar Coolant pump: inlet pressure, min. Coolant pump: inlet pressure, max. L 2.5 bar Pressure loss in off-engine cooling system, max. R 2.1 0.7 bar Coolant pump: inlet pressure, max. L 0.7 bar Pressure loss in off-engine cooling system, min. Pressure loss in off-engine cooling system, min. R 2.5 bar Coolant pump: inlet pressure, max. L 0.7 bar Dar Dar Dar Dar Dar Dar Dar		Charge-air temperature after intercooler, max.			
20 Cooling equipment: coolant flow rate 21 Intercooler: coolant flow rate 22 Coolant pump: pressure differential 23 Coolant pump: pressure differential 24 Coolant pump: inlet pressure, min. 25 Coolant pump: inlet pressure, max. 26 Pressure loss in off-engine cooling system, max. 27 Pressure loss in off-engine cooling system, max. 28 Pressure loss in off-engine cooling system, max. 30 Pressure loss in off-engine cooling system, max. 31 Pressure loss in off-engine cooling system, max. 32 Pressure loss in off-engine cooling system, max. 33 Pressure loss in off-engine cooling system, max. 34 Cooling equipment: height above engine, max. 35 Breather valve (expansion tank) opening pressure (excess pressure) 36 Breather valve (expansion tank) opening pressure (excess pressure) 37 Breather valve (expansion tank) opening pressure (depression) 42 Cooling equipment: operating pressure 43 Coolant level in expansion tank, below min. 44 Cooling equipment: operating pressure 45 Coolant level in expansion tank, below min. 46 Coolant level in expansion tank, below min. 47 Coolant level in expansion tank, below min. 48 Coolant level in expansion tank, below min. 49 Thermostat, starts to open 40 Thermostat, starts to open 41 Thermostat, bypass closed 42 Thermostat, bypass closed	45	for compliance with "TA-Luft" at CP	L	-	٠
Intercooler: coolant flow rate R 35.5 m³/h	56	Coolant pump: flow rate	А	35.5	m³/h
22Coolant pump: pressure differentialR2.1bar24Coolant pump: inlet pressure, min.L0.5bar25Coolant pump: inlet pressure, max.L2.5bar29Pressure loss in off-engine cooling system, max.L0.7bar62Pressure loss in off-engine cooling system, min.L0.55bar31Pressure loss in off-engine cooling system, max. without thermostatL0.7bar63Pressure loss in off-engine cooling system, min. without thermostatL0.55bar43Cooling equipment: height above engine, max.L15m43Cooling equipment: height above engine, max.L15m43Breather valve (expansion tank) opening pressure (excess pressure)R1.0bar36Breather valve (expansion tank) opening pressure (depression)R-0.1bar42Coolant level in expansion tank, below min. alarmL68Coolant level in expansion tank, below min. shutdownLX-39Thermostat, starts to openR38°C40Thermostat, bypass closedR51°C	20	Cooling equipment: coolant flow rate	А	35.5	
22 Coolant pump: pressure differential R 2.1 bar 24 Coolant pump: inlet pressure, min. L 0.5 bar 25 Coolant pump: inlet pressure, max. L 2.5 bar 29 Pressure loss in off-engine cooling system, max. L 0.7 bar 62 Pressure loss in off-engine cooling system, min. L 0.55 bar 31 Pressure loss in off-engine cooling system, max. without thermostat L 0.7 bar 43 Cooling equipment: height above engine, max. L 15 m 43 Cooling equipment: height above engine, max. L 15 m 43 Breather valve (expansion tank) opening pressure (excess pressure) R 1.0 bar 43 Breather valve (expansion tank) opening pressure (excess pressure) R 1.0 bar 42 Cooling equipment: operating pressure A 2.5 bar 42 Coolant level in expansion tank, below min. alarm L X - 68 Coolant level in expansion tank, below min. shutdown L X - 39 Thermostat, starts to open R 38 °C 40 Thermostat, bypass closed R 51	21	Intercooler: coolant flow rate	R	35.5	m³/h
25 Coolant pump: inlet pressure, max. 29 Pressure loss in off-engine cooling system, max. 29 Pressure loss in off-engine cooling system, max. 20 Pressure loss in off-engine cooling system, min. 20 Pressure loss in off-engine cooling system, max. 31 Pressure loss in off-engine cooling system, max. 32 Without thermostat 33 Pressure loss in off-engine cooling system, min. 34 Without thermostat 43 Cooling equipment: height above engine, max. 43 Cooling equipment: height above engine, max. 44 L 15 m 45 Breather valve (expansion tank) 46 opening pressure (excess pressure) 47 Breather valve (expansion tank) 48 Ocolant level in expansion tank, below min. 49 Coolant level in expansion tank, below min. 40 Coolant level in expansion tank, below min. 41 Sx 42 Sy 43 Coolant level in expansion tank, below min. 44 Shutdown 45 Sy 46 Thermostat, starts to open 46 Thermostat, bypass closed 47 Coolant level in expansion tank, below min. 48 Sy 49 Thermostat, bypass closed	22	Coolant pump: pressure differential	R	2.1	bar
29Pressure loss in off-engine cooling system, max.L0.7bar62Pressure loss in off-engine cooling system, min.L0.55bar31Pressure loss in off-engine cooling system, max. without thermostatL0.7bar63Pressure loss in off-engine cooling system, min. without thermostatL0.55bar43Cooling equipment: height above engine, max.L15m36Breather valve (expansion tank) opening pressure (excess pressure)R1.0bar37Breather valve (expansion tank) opening pressure (depression)R-0.1bar42Cooling equipment: operating pressureA2.5bar67Coolant level in expansion tank, below min. alarmLX-68Coolant level in expansion tank, below min. shutdownLX-39Thermostat, starts to openR38°C40Thermostat, bypass closedR51°C	24	Coolant pump: inlet pressure, min.	L	0.5	bar
62 Pressure loss in off-engine cooling system, min. L 0.55 bar 31 Pressure loss in off-engine cooling system, max. without thermostat L 0.7 bar 63 Pressure loss in off-engine cooling system, min. without thermostat L 0.55 bar 43 Cooling equipment: height above engine, max. L 15 m 36 Breather valve (expansion tank) opening pressure (excess pressure) R 1.0 bar 37 Breather valve (expansion tank) opening pressure (depression) R -0.1 bar 42 Cooling equipment: operating pressure A 2.5 bar 67 Coolant level in expansion tank, below min. alarm L - - 68 Coolant level in expansion tank, below min. shutdown L X - 39 Thermostat, starts to open R 38 °C 40 Thermostat, bypass closed R 51 °C	25	Coolant pump: inlet pressure, max.	L	2.5	bar
Pressure loss in off-engine cooling system, max. without thermostat Pressure loss in off-engine cooling system, min. without thermostat Cooling equipment: height above engine, max. Breather valve (expansion tank) opening pressure (excess pressure) Breather valve (expansion tank) opening pressure (excess pressure) Pressure loss in off-engine cooling system, min. L. 15 mm 15 mm 10 bar Pressure loss in off-engine cooling system, max. L. 15 mm Pressure loss in off-engine cooling system, max. L. 15 mm Pressure loss in off-engine cooling system, max. L. 15 mm Pressure loss in off-engine cooling system, max. L. 15 mm Pressure loss in off-engine cooling system, max. L. 15 mm Pressure loss in off-engine cooling system, max. L. 15 mm Pressure loss in off-engine cooling system, max. L. 15 mm Pressure loss in off-engine cooling system, max. L. 15 mm Pressure loss in off-engine cooling system, max. L. 15 mm Pressure loss in off-engine cooling system, min. Bar 2.5 bar Pressure loss in off-engine cooling system, min. L. 2.5 bar Pressure loss in off-engine cooling system, min. L. 2.5 bar Pressure loss in off-engine cooling system, min. Bar 2.5 bar Pressure loss in off-engine cooling system, min. Bar 2.5 bar Pressure loss in off-engine cooling system, min. Bar 2.5 bar Pressure loss in off-engine cooling system, min. Bar 2.5 bar Pressure loss in off-engine cooling system, min. Bar 2.5 bar Pressure loss in off-engine coling pressure Bar 2.5 bar Pressure loss in off-engine coling pressure Bar 2.5 bar Pressure loss in off-engine coling pressure Bar 2.5 bar Pressure loss in off-engine coling pressure Bar 2.5 bar Pressure loss in off-engine coling pressure Bar 2.5 bar Pressure loss in off-engine coling pressure Bar 2.5 bar Pressure loss in oft-engine pressure Bar 2.5 bar Pressure loss in off-engine pressure Bar 2.5 bar Pressur	29	Pressure loss in off-engine cooling system, max.	L	0.7	bar
without thermostat Pressure loss in off-engine cooling system, min. without thermostat Cooling equipment: height above engine, max. Breather valve (expansion tank) opening pressure (excess pressure) Breather valve (expansion tank) opening pressure (depression) Cooling equipment: operating pressure Cooling equipment: operating pressure A 2.5 bar Coolant level in expansion tank, below min. alarm Coolant level in expansion tank, below min. shutdown Thermostat, starts to open R 38 % Coolant level in expansion tank, below min. shutdown R 38 % Coolant level in expansion tank, below min. shutdown R 38 % Coolant level in expansion tank, below min. shutdown R 38 % COOlant level in expansion tank, below min. shutdown R 38 % COOlant level in expansion tank, below min. shutdown R 38 % COOlant level in expansion tank, below min. shutdown R 38 % COOlant level in expansion tank, below min. shutdown R 38 % COOlant level in expansion tank, below min. shutdown R 38 % COOlant level in expansion tank, below min. shutdown R 38 % COOlant level in expansion tank, below min. shutdown R 38 % COOlant level in expansion tank, below min. shutdown R 38 % CO	62	Pressure loss in off-engine cooling system, min.	L	0.55	bar
without thermostat Pressure loss in off-engine cooling system, min. without thermostat Cooling equipment: height above engine, max. Breather valve (expansion tank) opening pressure (excess pressure) Breather valve (expansion tank) opening pressure (excess pressure) Resident valve (expansion tank) opening pressure (depression) Cooling equipment: operating pressure Coolant level in expansion tank, below min. alarm Coolant level in expansion tank, below min. shutdown Thermostat, starts to open Resident valve (expansion tank, below min. alarm Resident valve (expansion tank) bar Breather	21	Pressure loss in off-engine cooling system, max.			l
without thermostat 43 Cooling equipment: height above engine, max. 44 Looling equipment: height above engine, max. 45 Breather valve (expansion tank) opening pressure (excess pressure) 46 Breather valve (expansion tank) opening pressure (excess pressure) 47 Breather valve (expansion tank) opening pressure (depression) 48 Cooling equipment: operating pressure 49 Coolant level in expansion tank, below min. alarm 40 Coolant level in expansion tank, below min. shutdown 40 Thermostat, starts to open 41 A Sass 42 Coolant level in expansion tank, below min. Shutdown 43 Sass 44 Coolant level in expansion tank, below min. Shutdown 45 Sass 46 Sass 47 Coolant level in expansion tank, below min. Shutdown 48 Sass 49 Coolant level in expansion tank, below min. Shutdown 49 Thermostat, starts to open 40 Thermostat, bypass closed	31	without thermostat	L L	0.7	bar
Without thermostat 43 Cooling equipment: height above engine, max. 43 Ereather valve (expansion tank) opening pressure (excess pressure) 44 Pressure (expansion tank) opening pressure (excess pressure) 45 Pressure (excess pressure) 46 Cooling equipment: operating pressure 47 Coolant level in expansion tank, below min. alarm 48 Coolant level in expansion tank, below min. shutdown 49 Coolant level in expansion tank, below min. alarm 40 Thermostat, starts to open 40 Thermostat, bypass closed 41 Discovery and the pressure of the p	62	Pressure loss in off-engine cooling system, min.		0.55	
Breather valve (expansion tank) opening pressure (excess pressure) 37 Breather valve (expansion tank) opening pressure (depression) 42 Cooling equipment: operating pressure 43 Coolant level in expansion tank, below min. alarm 44 Coolant level in expansion tank, below min. shutdown 45 Coolant level in expansion tank, below min. shutdown 46 Coolant level in expansion tank, below min. shutdown 47 R R R R R R R R R R R R R R R R R R R	63	without thermostat	L	0.55	bar
opening pressure (excess pressure) Breather valve (expansion tank) opening pressure (depression) Cooling equipment: operating pressure Coolant level in expansion tank, below min. alarm Coolant level in expansion tank, below min. shutdown Thermostat, starts to open Thermostat, bypass closed R 1.0 Bar 1.0 Bar -0.1 Bar Bar Bar -0.1 Bar Bar Bar Bar Bar Bar Bar Ba	43	Cooling equipment: height above engine, max.	L	15	m
opening pressure (excess pressure) 37 Breather valve (expansion tank) opening pressure (depression) 42 Cooling equipment: operating pressure 67 Coolant level in expansion tank, below min. alarm 68 Coolant level in expansion tank, below min. shutdown 39 Thermostat, starts to open 40 Thermostat, bypass closed 68 Pressure (depression) A 2.5 Bar	26	Breather valve (expansion tank)		4.0	
opening pressure (depression) 42 Cooling equipment: operating pressure 63 Coolant level in expansion tank, below min. alarm 64 Coolant level in expansion tank, below min. shutdown 65 Thermostat, starts to open 66 Thermostat, bypass closed 67 Coolant level in expansion tank, below min. Shutdown 68 R SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS	36	opening pressure (excess pressure)	K	1.0	bar
opening pressure (depression) 42 Cooling equipment: operating pressure 63 Coolant level in expansion tank, below min. alarm 64 Coolant level in expansion tank, below min. shutdown 65 Thermostat, starts to open 66 Thermostat, bypass closed 67 R 51 Coolant level in expansion tank, below min. Shutdown 68 R 51 Coolant level in expansion tank, below min. Shutdown 68 R 51 COOlant level in expansion tank, below min. Shutdown 68	a=	Breather valve (expansion tank)	_	0.4	
Coolant level in expansion tank, below min. alarm Coolant level in expansion tank, below min. Coolant level in expansion tank, below min. shutdown Thermostat, starts to open R 38 C 40 Thermostat, bypass closed R 51 C *C	3/	opening pressure (depression)	R	-0.1	bar
alarm Coolant level in expansion tank, below min. shutdown Thermostat, starts to open Thermostat, bypass closed L X X - 38 CC R 51 C C C C C C C C C C C C C	42	Cooling equipment: operating pressure	Α	2.5	bar
alarm 68 Coolant level in expansion tank, below min. shutdown 39 Thermostat, starts to open 40 Thermostat, bypass closed R 38 °C C °C	67	Coolant level in expansion tank, below min.			
68 shutdownL ShutdownX-39Thermostat, starts to openR38°C40Thermostat, bypass closedR51°C	67	alarm	L	-	-
68 shutdownL ShutdownX-39Thermostat, starts to openR38°C40Thermostat, bypass closedR51°C	60	Coolant level in expansion tank, below min.		,	
39 Thermostat, starts to open R 38 °C 40 Thermostat, bypass closed R 51 °C	68	·	L	X	-
40 Thermostat, bypass closed R 51 °C	39		R	38	°C
					_
	41			51	

10. Lube oil system

	abe on 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	95	°C
3	Lube oil operating temp. after engine, from	R	100	°C
4	Lube oil operating temp. after engine, to	R	110	°C
5	Lube oil temperature before engine, limit 1	L	99	°C
6	Lube oil temperature before engine, limit 2	L	101	°C
7	Lube oil operating pressure before engine (measuring block)	R	5.2	bar
8	Lube oil operating press. bef. engine, from	R	4.7	bar
9	Lube oil operating press. bef. engine, to	R	6.5	bar
10	Lube oil pressure before engine, alarm	L	-	bar
33	Lube oil pressure before engine, limit 1(speed-related value, consult MTU)	L	3.9	bar

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
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 16V4000G74S 1800 **Application Group** Nominal power [kW] 2280 3D Dataset Ref. 25°C/55°C Nominal power [bhp] 3058 Frequency [Hz] 60

Exhaust Regulations Fuel-consumption optimized;

	The second process of			
11	Lube oil pressure before engine, shutdown	L	-	bar
34	Lube oil pressure before engine, limit 2 (speed-related value, consult MTU)	L	3.6	bar
17	Lube oil pump(s): oil flow, total	R	840	liter/min
19	Lube oil fine filter (main circuit):		F	
19	number of units		3	-
20	Lube oil fine filter (main circuit):		1	
20	number of elements per unit		1	-
21	Lube oil fine filter (main circuit):	_	0.014	mm
21	particle retention	R		
32	Lube oil fine filter (main circuit):		1 5	h a u
32	pressure differential, max.	L	1.5	bar
25	Lube oil fine filter (main circuit):		v	
35	make (standard): MANN & HUMMEL		X	- I

11. Fuel system

	lei system			1
No.	Description	Index	Value	Unit
1	Fuel pressure at fuel feed connection, min.	lı lı	-0.1	bar
_	(when engine is starting)	_	0.1	Dai
57	Fuel pressure at fuel feed connection, min.	L	-0.3	bar
3,	(when engine is running)	-	0.5	Dai
2	Fuel pressure at fuel feed connection, max.	L	1.5	bar
2	(when engine is starting)	L	1.5	Dai
65	Fuel pressure at fuel feed connection, max.	L	0.5	bar
3	(permanent)	L	0.5	Dai
37	Fuel supply flow, max.	Α	20	liter/min
4	Fuel pressure before injection pump, from	R	5.0	bar
4	(high-pressure pump)	l n	5.0	Dai
_	Fuel pressure before injection pump, to		8.1	la
5	(high-pressure pump)	R	8.1	bar
_	Fuel pressure before injection pump, min.		F 0	la a se
6	(high-pressure pump)	L	5.0	bar
7	Fuel pressure before injection pump		1.5	la
/	with engine not running, max. (high-pressure pump)	L		bar
8	Fuel return flow, max.	Α	6	liter/min
10	Fuel pressure at return connection on engine, max.	L	0.5	bar
12	Fuel temperature differential before/after engine	R	30	К
38	Fuel temperature after high-pressure pump, alarm	L	100	°C
15	Fuel prefilter: number of units	А	-	-
16	Fuel prefilter: number of elements per unit	Α	-	-
17	Fuel prefilter: particle retention	А	-	mm
29	Fuel prefilter: make (standard): MANN & HUMMEL		-	-
18	Fuel fine filter (main circuit): number of units	А	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
22	Fuel fine filter (main circuit):		х	
32	make (standard): MANN & HUMMEL		^	_

12. General operating data

No.	Description	Index	Value	Unit	
-----	-------------	-------	-------	------	--

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
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%)

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

Technical Sales Document - Product Data -



Speed [rpm] Name 16V4000G74S 1800 **Application Group** Nominal power [kW] 2280 3D Dataset Ref. 25°C/55°C Nominal power [bhp] 3058 Frequency [Hz] 60

	- 1.0		Frequency [Hz]	60
Exhaust	Regulations Fuel-consumption optimized;	1		T
1	Cold start capability: air temperature	R	10	°C
	(w/o starting aid, w/o preheating) - (case A)			
2	Additional condition (to case A):	R	10	°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	15W40	SAE
9	Cold start capability: air temperature	R	0	°C
	(w/o starting aid, w/ preheating) - (case C)			
10	Additional condition (to case C):	R	40	°C
4.4	engine coolant temperature		10	0.0
11	Additional condition (to case C): lube oil temperature	R	-10	°C
12	Additional condition (to case C): lube oil viscosity	R	15W40	SAE
21	Coolant preheating, heater performance (standard)	R	9	kW
22	Coolant preheating, preheating temperature, min.	L	32 55	°C
3506 23	Coolant preheating, preheating temperature, max.	L	N N	
24	Lube oil priming pump: flow rate	R	N	liter/min
25	Lube oil priming pump: pressure Lube oil priming pump: rated power	R R	N	bar
25	Lube oil priming pump: cut-in interval	К	IN	kW
26	pump cut-in every minutes	R	N	min
27	,	n	N	
21	Lube oil priming pump: cut-in duration Breakaway torque (without driven machinery)	R	IN	min
28	coolant temperature +5°C	R	2200	Nm
	'			
30	Breakaway torque (without driven machinery)	R	1750	Nm
	coolant temperature +40°C			
29	Cranking torque at firing speed (without driven machinery)	R	1200	Nm
	coolant temperature +5°C			
31	Cranking torque at firing speed (without driven machinery)	R	880	Nm
	coolant temperature +40°C Starting is blocked if the engine coolant temperature is			
96	below		0	°C
	Run-up period to rated speed			
92	(without driven machinery)	R	N	S
02	Run-up period to rated speed		6	
93	(with driven machinery)	R	6	S
27	(* at general conditions) High idling speed, max. (static)		1000	
37 38	Limit speed for overspeed alarm / emergency shutdown	L	1900 1950	rpm
39	Limit speed for overspeed alarm	L	1950	rpm
42	Firing speed, from	R	80	rpm
43	Firing speed, to	R	120	rpm
	Engine coolant temperature before starting full-load operation, recommended	N	120	rpm
44	min.	R	60	°C
3515	Minimum continuous load (operation > 10h)	R	30	kW/cyl
	Extended low or no-load operation possible	IX		KVV/Cyl
49	(consultation required)		х	-
	Engine mass moment of inertia			
50	(without flywheel)	R	12.7	kgm²
52	Standard flywheel mass moment of inertia	R	10.4	kgm²
	Engine mass moment of inertia	IV.		ngili
51	(with standard flywheel)	R	23.1	kgm²
69	Speed droop (with electronic governor) adjustable, from	R	0	%
70	Speed droop (with electronic governor) adjustable, from	R	8	%
95	Number of starter ring-gear teeth on engine flywheel	N	182	/0
33	Inditional of starter fing-gear reeffi on engine nywneer	1	104	<u> -</u>

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

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

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Technical Sales Document - Product Data -



Name 16V4000G74S

Application Group 3D

Dataset Ref. 25°C/55°C Speed [rpm] 1800 Nominal power [kW] 2280 Nominal power [bhp] 3058 Frequency [Hz] 60

Exhaust Regulations Fuel-consumption optimized;

13. Starting (electric)

No. Description Index Value Unit					1
2 2 2 2 2 2 2 2 2 2		·	Index	_	Unit
Starter electrically redundant					-
Sated power per starter R S Second Starter, rated voltage R 24 VDC				2	-
Starter, rated voltage R 24 VOC		,		-	-
A sated short-circuit current per starter 1		·	R		kW
Power consumption per starter (at an engine speed of 100 rpm) R 3211 Internal resistance of power supply + line resistance per starter A 0.008 Q 2318 Manufacturer B 321	2314		R	24	VDC
A	2315		L	1900	A
lat an engine speed of 100 rpm	2216	Power consumption per starter	D	590	Λ.
Manufacturer	2310	(at an engine speed of 100 rpm)	I.	360	A
Number of starter	2317	Internal resistance of power supply + line resistance per starter	Α	0.008	Ω
Starter electrically redundant Alter of power per starter Reference of the starter of the star	2318	Manufacturer		Bosch	-
Rated power per starter	2319	Number of starter		2	-
Starter, rated voltage	2320	Starter electrically redundant		-	-
3232 Rated short-circuit current per starter L 2190 A 2324 (at an engine speed of 100 rpm) R 750 A 32325 Internal resistance of power supply + line resistance per starter A 0.0047 0 32326 Manufacturer L Prestolite - 32327 Number of starter 1 - - 32328 Starter electrically redundant L - - 2329 Rated power per starter R 15 kW 2330 Starter, rated voltage R 24 VDC 2331 Rated short-circuit current per starter L 3000 A 2332 (at an engine speed of 100 rpm) R 1400 A 23331 Internal resistance of power supply + line resistance per starter A 0.0045 Ω 23332 Internal resistance of power supply + line resistance per starter A 0.0045 Ω 23334 Manufacturer Prestolite - 23337 Rated power per starter R 15 kW 23338 Starter, rated voltage R 15 kW 23340 Manufacturer R 14 VDC <	2321	Rated power per starter	R	11.3	kW
3232 Rated short-circuit current per starter L 2190 A 2324 (at an engine speed of 100 rpm) R 750 A 32325 Internal resistance of power supply + line resistance per starter A 0.0047 0 32326 Manufacturer L Prestolite - 32327 Number of starter 1 - - 32328 Starter electrically redundant L - - 2329 Rated power per starter R 15 kW 2330 Starter, rated voltage R 24 VDC 2331 Rated short-circuit current per starter L 3000 A 2332 (at an engine speed of 100 rpm) R 1400 A 23331 Internal resistance of power supply + line resistance per starter A 0.0045 Ω 23332 Internal resistance of power supply + line resistance per starter A 0.0045 Ω 23334 Manufacturer Prestolite - 23337 Rated power per starter R 15 kW 23338 Starter, rated voltage R 15 kW 23340 Manufacturer R 14 VDC <	2322	Starter, rated voltage	R	24	VDC
A A A A A A A A A A	2323		L	2190	A
A A A A A A A A A A		Power consumption per starter	_		
2325 Internal resistance of power supply + line resistance per starter	2324		R	750	A
Prestolite	2325	1, ,	Α	0.0047	Ω
Number of starter				Prestolite	-
Starter electrically redundant					-
Rated power per starter Rated short-circuit current per starter Lated short-circuit current per starter L				-	_
2330Starter, rated voltageR24VDC2331Rated short-circuit current per starterL3000A2332Power consumption per starter (at an engine speed of 100 rpm)R1400A2333Internal resistance of power supply + line resistance per starterA0.0045Ω2334ManufacturerPrestolite2335Number of starter22336Starter electrically redundantX2337Rated power per starterR15kW2338Starter, rated voltageR24VDC2339Rated short-circuit current per starterL3000A2340Power consumption per starter (at an engine speed of 100 rpm)R1400A2341Internal resistance of power supply + line resistance per starterA0.0045Ω2341Internal resistance of power supply + line resistance per starterA0.0045Ω2376Starter electrically redundant3377Rated power per starterR9kW3378Starter, rated voltageR24VDC3379Rated short-circuit current per starter (at an engine speed of 100 rpm)R530A3380Power consumption per starter (at an engine speed of 100 rpm)R530A3381Internal resistance of power supply + line resistance per starter (at an engine speed of 100 rpm)A0.			R	15	k\M
2331Rated short-circuit current per starter (at an engine speed of 100 rpm)L3000A2332Power consumption per starter (at an engine speed of 100 rpm)R1400A2333Internal resistance of power supply + line resistance per starterA0.0045Q2334ManufacturerPrestolite-2335Number of starter2-2336Starter electrically redundantIX-2337Rated power per starterR15kW2338Starter, rated voltageR24VDC2339Rated short-circuit current per starter (at an engine speed of 100 rpm)R1400A2340Power consumption per starter (at an engine speed of 100 rpm)R1400A2341Internal resistance of power supply + line resistance per starterA0.0045Q2347ManufacturerPrestolite-2375Number of starter23376Starter electrically redundant3377Rated power per starterR9kW3378Starter, rated voltageR24VDC3379Rated short-circuit current per starterL1900A3380Power consumption per starter (at an engine speed of 100 rpm)R530A3381Internal resistance of power supply + line resistance per starterA0.005Q2347Generally valid data for starterX					
Power consumption per starter (at an engine speed of 100 rpm) R 1400 A 2333 Internal resistance of power supply + line resistance per starter A 0.0045 Ω 2334 Manufacturer Prestolite - 2335 Number of starter 2336 Starter electrically redundant R 15 KW 2337 Rated power per starter R 15 Mountain engine speed of 100 rpm) R 1400 A 24 VDC 2339 Rated short-circuit current per starter (at an engine speed of 100 rpm) R 1400 A 240 Q 251 Q 261 Q 272 Q 273 Q 283 Starter, rated voltage R 24 VDC 2839 Rated short-circuit current per starter (at an engine speed of 100 rpm) R 1400 A 2840 Power consumption per starter (at an engine speed of 100 rpm) R 1400 A 2841 Internal resistance of power supply + line resistance per starter A 0.0045 Ω 2837 Number of starter R 2 Q 2837 Starter electrically redundant R 2 Q 3376 Starter electrically redundant R 2 Q 3377 Rated power per starter R 9 KW 3378 Starter, rated voltage R 24 VDC 3379 Rated short-circuit current per starter R 9 KW 3379 Rated short-circuit current per starter R 9 KW 3370 Rated short-circuit current per starter R 9 KW 3380 Internal resistance of power supply + line resistance per starter R 9 KW 3381 Internal resistance of power supply + line resistance per starter R 530 A A 3383 Internal resistance of power supply + line resistance per starter R 5 S 340 Rated short-circuit current per starter R 5 S 351 Signal A A 0.005 Q 3524 Rated starting-attempt Duration (at +20°C ambient temperature with battery R 5 S Interval between starts (at rated starting-attempt duration), min.			1,		
A A A A A A A A A A	2331		-	3000	^
2333Internal resistance of power supply + line resistance per starterA0.0045Ω2334ManufacturerPrestolite-2335Number of starter2-2336Starter electrically redundantX-2337Rated power per starterR15kW2338Starter, rated voltageR24VDC2339Rated short-circuit current per starterL3000A(at an engine speed of 100 rpm)R1400A2341Internal resistance of power supply + line resistance per starterA0.0045Ω3374ManufacturerPrestolite-3375Number of starter2-3376Starter electrically redundant3377Rated power per starterR9kW3378Starter, rated voltageR24VDC3379Rated short-circuit current per starterL1900A3380Power consumption per starter (at an engine speed of 100 rpm)R530A3383Internal resistance of power supply + line resistance per starterA0.005Ω2347Generally valid dat for starterX-2342Rated starting-attempt Duration (at +20°C ambient temperature with battery (at rated starting-attempt duration), min.L20s	2332		R	1400	A
2334ManufacturerPrestolite-2335Number of starter2-2336Starter electrically redundantX-2337Rated power per starterR15kW2338Starter, rated voltageR24VDC2339Rated short-circuit current per starterL3000A2340Power consumption per starter (at an engine speed of 100 rpm)R1400A2341Internal resistance of power supply + line resistance per starterA0.0045Ω3374ManufacturerPrestolite-3375Number of starter2-3376Starter electrically redundant3377Rated power per starterR9kW3378Starter, rated voltageR24VDC3379Rated short-circuit current per starterL1900A3380Power consumption per starterL1900A3383Internal resistance of power supply + line resistance per starterA0.005Ω2347Generally valid data for starterX-2342Rated starting-attempt Duration (at +20°C ambient temperature with battery (at rated starting-attempt duration), min.L20s	2222		^	0.0045	0
Starter electrically redundant Starter Starter electrically redundant Starter electrically redundant Starter electrically redundant Starter electrically redundant Starter, rated voltage R 15 kW		1 11 / 1	A		122
2336Starter electrically redundantX-2337Rated power per starterR15kW2338Starter, rated voltageR24VDC2339Rated short-circuit current per starterL3000A2340Power consumption per starter (at an engine speed of 100 rpm)R1400A2341Internal resistance of power supply + line resistance per starterA0.0045Ω3374ManufacturerPrestolite-3375Number of starter2-3376Starter electrically redundant3377Rated power per starterR9kW3378Starter, rated voltageR24VDC3379Rated short-circuit current per starterL1900A3380Power consumption per starter (at an engine speed of 100 rpm)R530A3381Internal resistance of power supply + line resistance per starterA0.005Ω2347Generally valid data for starterX-2342Rated starting-attempt Duration (at +20°C ambient temperature with batteryR5s2343Interval between starts (at rated starting-attempt duration), min.L20s					-
2337Rated power per starterR15kW2338Starter, rated voltageR24VDC2339Rated short-circuit current per starterL3000A2340Power consumption per starter (at an engine speed of 100 rpm)R1400A2341Internal resistance of power supply + line resistance per starterA0.0045Ω3374ManufacturerA0.0045Ω3375Number of starter23376Starter electrically redundant3377Rated power per starterR9kW3378Starter, rated voltageR24VDC3379Rated short-circuit current per starterL1900A3380Power consumption per starter (at an engine speed of 100 rpm)R530A3383Internal resistance of power supply + line resistance per starterA0.005Ω2347Generally valid data for starterX-2342Rated starting-attempt Duration (at +20°C ambient temperature with battery (at rated starting-attempt Duration), min.L20s					-
2338Starter, rated voltageR24VDC2339Rated short-circuit current per starterL3000A2340Power consumption per starter (at an engine speed of 100 rpm)R1400A2341Internal resistance of power supply + line resistance per starterA0.0045Ω3374ManufacturerPrestolite-3375Number of starterZ-3376Starter electrically redundant3377Rated power per starterR9kW3378Starter, rated voltageR24VDC3379Rated short-circuit current per starterL1900A3380Power consumption per starter (at an engine speed of 100 rpm)R530A3383Internal resistance of power supply + line resistance per starterA0.005Ω2347Generally valid data for starterX-2342Rated starting-attempt Duration (at +20°C ambient temperature with batteryR5s2343Interval between starts (at rated starting-attempt duration), min.L20s		·	В		- LAA/
Rated short-circuit current per starter 2340 Power consumption per starter (at an engine speed of 100 rpm) R 1400 A R 1400					
2340Power consumption per starter (at an engine speed of 100 rpm)R1400A2341Internal resistance of power supply + line resistance per starterA0.0045Ω3374ManufacturerPrestolite-3375Number of starter2-3376Starter electrically redundant3377Rated power per starterR9kW3378Starter, rated voltageR24VDC3379Rated short-circuit current per starterL1900A3380Power consumption per starter (at an engine speed of 100 rpm)R530A3383Internal resistance of power supply + line resistance per starterA0.005Ω2347Generally valid data for starterX-2342Rated starting-attempt Duration (at +20°C ambient temperature with battery (at rated starting-attempt duration), min.L20s			I I		-
Cat an engine speed of 100 rpm R 1400 A	2333		<u> </u>	3000	A
2341Internal resistance of power supply + line resistance per starterA0.0045Ω3374ManufacturerPrestolite-3375Number of starter2-3376Starter electrically redundant3377Rated power per starterR9kW3378Starter, rated voltageR24VDC3379Rated short-circuit current per starterL1900A3380Power consumption per starter (at an engine speed of 100 rpm)R530A3383Internal resistance of power supply + line resistance per starterA0.005Ω2347Generally valid data for starterX-2342Rated starting-attempt Duration (at +20°C ambient temperature with battery (at rated starting-attempt duration), min.L20s	2340		R	1400	Α
3374ManufacturerPrestolite-3375Number of starter2-3376Starter electrically redundant3377Rated power per starterR9kW3378Starter, rated voltageR24VDC3379Rated short-circuit current per starterL1900A3380Power consumption per starter (at an engine speed of 100 rpm)R530A3383Internal resistance of power supply + line resistance per starterA0.005Ω2347Generally valid data for starterX-2342Rated starting-attempt Duration (at +20°C ambient temperature with battery (at rated starting-attempt duration), min.L20s	22.44			0.0045	
Starter electrically redundant			А		Ω
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 530 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 5 s 2343 Interval between starts (at rated starting-attempt duration), min. L 20 s					-
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 530 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 5 s 2343 Interval between starts (at rated starting-attempt duration), min. L 20 s				2	-
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 530 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 5 s 2343 Interval between starts (at rated starting-attempt duration), min. L 20 s		,	-	-	-
3379 Rated short-circuit current per starter L 1900 A 3380 Power consumption per starter (at an engine speed of 100 rpm) R 530 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 5 s 2343 Interval between starts (at rated starting-attempt duration), min. L 20 s					
3380 Power consumption per starter (at an engine speed of 100 rpm) R 530 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 5 s 2343 Interval between starts (at rated starting-attempt duration), min. L 20 s			R		-
Cat an engine speed of 100 rpm R S30 A	3379		L	1900	Α
(at an engine speed of 100 rpm) Control (at an engine speed of 100 rpm) 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 5 s 2343 Interval between starts (at rated starting-attempt duration), min. L 20 s	3380		R	530	A
2347 Generally valid data for starter 2342 Rated starting-attempt Duration (at +20°C ambient temperature with battery R 5 s 2343 Interval between starts (at rated starting-attempt duration), min.		1 7			
2342 Rated starting-attempt Duration (at +20°C ambient temperature with battery R 5 5 s 2343 Interval between starts (at rated starting-attempt duration), min.			Α		Ω
2343 Interval between starts (at rated starting-attempt duration), min.		·			-
2343 (at rated starting-attempt duration), min.	2342		R	5	S
(at rated starting-attempt duration), min.	2242	Interval between starts		20	
2345 Maximum acceptable starting-attempt duration L 15 s	2343	(at rated starting-attempt duration), min.	L	20	5
	2345	Maximum acceptable starting-attempt duration	L	15	S

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

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

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Technical Sales Document - Product Data -



16V4000G74S Speed [rpm] Name 1800 **Application Group** Nominal power [kW] 2280 3D Dataset Ref. 25°C/55°C Nominal power [bhp] 3058 Frequency [Hz]

Exhaust Regulations Fuel-consumption optimized;

2344	Interval between starts	D	60	
	(when starting-attempt duration > rated starting-attempt duration)	K	80	5
2346	Starting attempts within 30 minutes		6	
2340	(at +20°C ambient temperature with battery full), max.	L	0	-
3565	Disengagement of starter pinion at engine Speed	R	400	rpm
3303	Note: Exceeding the guideline value of the disengagement speed will reduce		400	
3566	Disengagement of starter pinion at engine speed, max.	L	500	rpm

15. Starting (pneumatic/oil pressure starter)

No.	Description	Index	Value	Unit
35	Pneumatic starter: make Gali	muex	-	-
36	Pneumatic starter: make TDI		X	_
5	Starting air pressure before starter motor, min.	R	8	bar
	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
	Start attempt duration (engine not preheated)	R	5	S
20	Start attempt duration, max.	L	-	S
	Air consumption/start attempt	_		-
	(engine preheated)			
114	Engine without generator	R	1.1	m³n
	Control with engine controller			
	Air consumption/start attempt			
	(engine not preheated)			
115	Engine without generator	R	1.2	m³n
	Control with engine controller			
	<u> </u>			
116	Air consumption with external control	R	0.6	m³n
	for air-starter (per second			
23	Starting air tank for 3 start attempts	R	-	liter
	(max. 40 bar) (engine preheated)			
24	Starting air tank for 3 start attempts	R	-	liter
	(max. 30 bar) (engine preheated)			
25	Starting air tank for 6 start attempts	R	-	liter
	(max. 40 bar) (engine preheated)			
26	Starting air tank for 6 start attempts	R	-	liter
	(max. 30 bar) (engine preheated)			
27	Starting air tank for 10 start attempts	R	-	liter
	(max. 40 bar) (engine preheated)	.,		
28	Starting air tank for 10 start attempts	R	_	liter
	(max. 30 bar) (engine preheated)	.,		ii cei
29	Starting air tank for 3 start attempts	R	N	liter
	(max. 40 bar) (engine not preheated)	.`		incer
30	Starting air tank for 3 start attempts	R	N	liter
30	(max. 30 bar) (engine not preheated)	IX.		inter
31	Starting air tank for 6 start attempts	R	N	liter
	(max. 40 bar) (engine not preheated)	١,		III.CI
32	Starting air tank for 6 start attempts	R	N	liter
32	(max. 30 bar) (engine not preheated)	11		IILEI
33	Starting air tank for 10 start attempts	R	N	liter
33	(max. 40 bar) (engine not preheated)	11	1	litei

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
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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Technical Sales Document - Product Data -



Speed [rpm] Name 16V4000G74S 1800 **Application Group** Nominal power [kW] 2280 3D Dataset Ref. 25°C/55°C Nominal power [bhp] 3058 Frequency [Hz] 60

Exhaust Regulations Fuel-consumption optimized;

34	Starting air tank for 10 start attempts	D	N	liter
34	(max. 30 bar) (engine not preheated)	R	IN .	
101	Hydraulic starter: make Huegli		X	-
102	Starting oil pressure before starter motor, min.	R	120	bar
103	Starting oil pressure before starter motor, max.	R	207	bar
104	Starting oil pressure before starter motor, min.	L	120	bar
105	Starting oil pressure before starter motor, max.	L	207	bar
107	Start attempt duration (engine not preheated)	R	N	S
108	Start attempt duration, max.	L	N	S
109	Hydraulic oil consumption / start attempt	0	N	Ph
109	(engine preheated)	R	IV.	liter
110	Hydraulic oil consumption / start attempt	0	N	likan
110	(engine not preheated)	R	N	liter
111	Minimum specification of hydraulic oil viscosity	R	MilSpec 5606	-

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, temporary max.			
16	driving end down	L	-	degrees (°)
	(Option: max. operating inclinations)			
	Longitudinal inclination, continuous max.			degrees (°)
17	driving end up	L	5	
	(Option: max. operating inclinations)			
	Longitudinal inclination, temporary max.			degrees (°)
18	driving end up	L	-	
	(Option: max. operating inclinations)			
19	Transverse inclination, continuous max.		10	dograps (°)
19	(Option: max. operating inclinations)	L	10	degrees (°)
20	Transverse inclination, temporary max.			degrees (°)
(Option: max. operating inclinations)	(Option: max. operating inclinations)	l l		

18. Capacities

No.	Description	Index	Value	Unit
NO.		index		
1	Engine coolant capacity (without cooling equipment)	R	175	liter
10	Intercooler coolant capacity	R	50	liter
11	On-engine fuel capacity	R	8	liter
	Engine oil capacity, initial filling			
14	(standard oil system)	R	300	liter
	(Option: max. operating inclinations)			
	Oil change quantity, max.			
20	(standard oil system)	R	240	liter
	(Option: max. operating inclinations)			
28	Oil pan capacity, dipstick mark min.			
	(standard oil system)	L	210	liter
	(Option: max. operating inclinations)			
	Oil pan capacity, dipstick mark max.			
29	(standard oil system)	L	240	liter
	(Option: max. operating inclinations)			

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Maximum engine power that cannot be run continuously on
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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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Technical Sales Document - Product Data -



Speed [rpm] Name 16V4000G74S 1800 **Application Group** Nominal power [kW] 2280 3D Dataset Ref. 25°C/55°C Nominal power [bhp] 3058 Frequency [Hz] 60

Exhaust Regulations Fuel-consumption optimized;

19. Masses / dimensions

No.	Description	Index	Value	Unit
	Engine mass, dry			
9	(basic engine configuration acc. to	R	7700	kg
	scope of supply specification)			

21. Exhaust emissions

No.	Description	Index	Value	Unit
1972	Emissions data sheet:		EDS 4000 1224	
	Fuel-consumption optimized		ED3 4000 1224	-

22. Acoustics

	coustics	1	le i	I
No.	Description	Index	Value	Unit
101	Exhaust noise, unsilenced - CP			
	(free-field sound-pressure level Lp, 1m distance,	R	-	dB(A)
	ISO 6798, +3dB(A) tolerance)			
201	Exhaust noise, unsilenced - CP	R		dB(A)
201	(sound power level LW, ISO 6798, +3dB(A) tolerance)	n		ub(A)
	Exhaust noise, unsilenced - FSP			
102	(free-field sound-pressure level Lp, 1m distance,	R	116	dB(A)
	ISO 6798, +3dB(A) tolerance)			
202	Exhaust noise, unsilenced - FSP	,	120	15(4)
202	(sound power level LW, ISO 6798, +3dB(A) tolerance)	R	129	dB(A)
	Exhaust noise, unsilenced - CP			
	(free-field sound-pressure level Lp, 1m distance,	_	-	-
103	ISO 6798)	R		
	Spectrum No.			
	Exhaust noise, unsilenced - CP			
203	(sound power level LW, ISO 6798)	R	-	_
	Spectrum No.			
	Exhaust noise, unsilenced - FSP			
104	(free-field sound-pressure level Lp, 1m distance,	R	733624e	_
	ISO 6798) Spectrum No.			
	Exhaust noise,unsilenced - FSP			
204	(sound power level LW, ISO 6798)	R	N	-
	Spectrum No.			
	Engine surface noise with attenuated			
	intake noise (filter) - CP		-	dB(A)
109	(free-field sound-pressure level Lp, 1m distance,	R		
	ISO 6798, +2dB(A) tolerance)			
	Engine surface noise with attenuated			
209	intake noise (filter) - CP	R	_	dB(A)
203	(sound power level LW, ISO 6798, +2dB(A) tolerance)			GD(A)
	Engine surface noise with attenuated			
	intake noise (filter) - FSP			
110	(free-field sound-pressure level Lp, 1m distance,	R	106	dB(A)
	ISO 6798, +2dB(A) tolerance)			
	130 0730, TZUD(A) (Ulerance)			

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some applications (stabilization reserve)
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Applicable
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Non-applicable
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Adequate verification not yet available (tolerance +/-5%)

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Technical Sales Document - Product Data -



Speed [rpm] Name 16V4000G74S 1800 **Application Group** Nominal power [kW] 2280 3D Dataset Ref. 25°C/55°C Nominal power [bhp] 3058 Frequency [Hz] 60

Exhaust Regulation

Exhaust	Exhaust Regulations Fuel-consumption optimized;				
210	Engine surface noise with attenuated				
	intake noise (filter) - FSP	R	125	dB(A)	
	(sound power level LW, ISO 6798, +2dB(A) tolerance)				
111	Engine surface noise with attenuated				
	intake noise (filter) - CP	D	-	-	
111	(free-field sound-pressure level Lp, 1m distance,	R			
	ISO 6798) Spectrum No.				
	Engine surface noise with attenuated				
244	intake noise (filter) - CP	R	-	-	
211	(sound power level LW, ISO 6798)				
	Spectrum No.				
	Engine surface noise with attenuated				
440	intake noise (filter) - FSP	R	733611e	-	
112	(free-field sound-pressure level Lp, 1m distance,				
	ISO 6798) Spectrum No.				
	Engine surface noise with attenuated				
	intake noise (filter) - FSP		N	-	
212	(sound power level LW, ISO 6798)	R			
	Spectrum No.				
	Engine surface noise, without intake noise - CP				
131	(free-field sound-pressure level Lp, 1m distance,	R	_	dB(A)	
	ISO 6798, +2dB(A) tolerance)			()	
	Engine surface noise, without intake noise - CP				
231	(sound power level LW, ISO 6798, +2dB(A) tolerance)	R	-	dB(A)	
	Engine surface noise, without intake noise - CP				
133	(free-field sound-pressure level Lp, 1m distance,	R	-	-	
	ISO 6798) Spectrum No.				
	Engine surface noise, without intake noise - CP				
233	(sound power level LW, ISO 6798)	R	-	-	
	Spectrum No.				
	Intake noise, unsilenced - CP				
117	(free-field sound-pressure level Lp, 1m distance,	R	-	dB(A)	
	ISO 6798)			5-(-,	
	Intake noise, unsilenced - CP			1-1-1	
217	(sound power level LW, ISO 6798)	R	-	dB(A)	
	Intake noise, unsilenced - FSP				
119	(free-field sound-pressure level Lp, 1m distance,	R	-	-	
	ISO 6798) Spectrum No.				
	Intake noise, unsilenced - CP				
219	(sound power level LW, ISO 6798)		-	-	
	Spectrum No.				
	Structure borne noise at engine mounting brackets				
125	in vertical direction above resilient engine mounts - CP	R	-	-	
	Spectrum No.				
	Structure borne noise at engine mounting brackets				
126	in vertical direction above resilient engine mounts - FSP	R	733637e	-	
	Spectrum No.				
	Structure born noise, vertically below the resilient engine				
127	mounts - CP	R	-	-	
	Spectrum No.				
	I ·	1	1		

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