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Technical Sales Document - Product Data -



Speed [rpm] Name 12V4000G84S 1800 **Application Group** Nominal power [kW] 3D 1910 Dataset Ref. 25°C/55°C Nominal power [bhp] 2561 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 | | | |
| ٥ | (1500/1800 rpm) | | - | - |
| 12 | Engine with sequential turbocharging | | | |
| 12 | (turbochargers with cut-in/cut-out control) | | | - |
| 12 | Engine without sequential turbocharging | | v | |
| 13 | (turbochargers without cut-in/cut-out control) | ^ | | - |

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 | 1910 | kW |
| 0 | Mean effective pressure (MEP) | | 22.3 | la a u |
| 9 | (Fuel stop power ISO 3046) | | 22.3 | 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) | | 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 | D | | ~ /Is\A/b |
| 17 | (+ 5 %; EN 590; 42.8 MJ/kg) | ĸ | - | 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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Technical Sales Document - Product Data -



Speed [rpm] Name 12V4000G84S 1800 **Application Group** Nominal power [kW] 1910 3D Dataset Ref. 25°C/55°C Nominal power [bhp] 2561 Frequency [Hz] 60

Exhaust Regulations Fuel-consumption optimized:

| Exhaust Regulations Fuel-consumption optimized; | | | | |
|---|---|-----|------|----------|
| 18 | Specific fuel consumption (be) - 75 % CP (+ 5 %; EN 590; 42.8 MJ/kg) | R | - | g/kWh |
| 19 | Specific fuel consumption (be) - 50 % CP | R | - | g/kWh |
| | (+ 5 %; EN 590; 42.8 MJ/kg) Specific fuel consumption (be) - 25 % CP | | | |
| 20 | (+ 5 %; EN 590; 42.8 MJ/kg) | R | - | g/kWh |
| 21 | Specific fuel consumption (be) - FSP (+ 5 %; EN 590; 42.8 MJ/kg) | R | - | g/kWh |
| 56 | Specific fuel consumption (be) - 100 % FSP | R | 206 | g/kWh |
| 50 | (+ 5 %; EN 590; 42.8 MJ/kg) | IN. | 200 | g/ KVVII |
| 57 | Specific fuel consumption (be) - 75 % FSP (+ 5 %; EN 590; 42.8 MJ/kg) | R | 198 | g/kWh |
| 58 | Specific fuel consumption (be) - 50 % FSP | R | 208 | g/kWh |
| | (+ 5 %; EN 590; 42.8 MJ/kg) | n | 200 | 6/ KVVII |
| 59 | Specific fuel consumption (be) - 25 % FSP (+ 5 %; EN 590; 42.8 MJ/kg) | R | 236 | g/kWh |
| 73 | No-load fuel consumption | R | 29.0 | kg/h |
| | Lube oil consumption after 100 h of operation | | | |
| | (B = fuel consumption per hour) | R | 0.3 | |
| 92 | Guideline value does not apply for the design | | | % 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. (B = fuel consumption per hour) | L | 1.0 | % of B |

4. Model-related data (basic design)

| 4. IVIO | del-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 | | Х | - |
| 37 | Direction of rotation: c.c.w. (facing driving end) | | Х | - |
| 6 | Number of cylinders | | 12 | - |
| 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 | | 57.2 | liter |
| 14 | Compression ratio | | 16.4 | - |
| 40 | Cylinder heads: single-cylinder | | X | - |
| 41 | Cylinder liners: wet, replaceable | | Х | - |
| 42 | Piston design: composite piston | | - | - |
| 49 | Piston design: solid-skirt piston | | Х | - |
| 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 | - |
| 15 | Number of turbochargers | | 4 | - |

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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

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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Technical Sales Document - Product Data -



Speed [rpm] Name 12V4000G84S 1800 **Application Group** Nominal power [kW] 1910 3D Dataset Ref. 25°C/55°C Nominal power [bhp] 2561 Frequency [Hz]

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 | L | 15 | kNm |
| 50 | flywheel housing flange, max. | | | |
| F1 | Dynamic bending moment at standard | | 75 | Lablace |
| 51 | flywheel housing flange, max. | L | 75 | kNm |
| 20 | Standard flywheel housing flange | | | CAE |
| 29 | (reduction gearbox main PTO) | | - | SAE |
| 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 | 3.4 | bar abs |
| 9 | Combustion air volume flow - CP | R | - | m³/s |
| 10 | Combustion air volume flow - FSP | R | 2.4 | m³/s |
| 11 | Exhaust volume flow (at exhaust temperature) - CP | R | - | m³/s |
| 12 | Exhaust volume flow (at exhaust temperature) - FSP | R | 5.9 | m³/s |
| 13 | Exhaust temperature before turbocharger - CP | R | - | °C |
| 14 | Exhaust temperature before turbocharger - FSP | R | 695 | °C |
| 15 | Exhaust temperature after turbocharger - CP | R | - | °C |
| 16 | Exhaust temperature after turbocharger - FSP | R | 460 | °C |
| 17 | Exhaust temperature after engine - CP | R | - | °C |
| 18 | Exhaust temperature after engine - FSP | R | 460 | °C |

6. Heat dissipation

| No. | Description | Index | Value | Unit |
|-----|---|-------|-------|------|
| 0 | Heat dissipated by engine coolant - CP | D | | kW |
| 9 | with oil heat | R | - | KVV |
| 11 | Heat dissipation by engine coolant - CP | _ | | kW |
| 11 | with oil heat, with charge-air heat | А | | KVV |
| 60 | Heat dissipated by engine coolant - CP | R | | kW |
| 00 | (high-temperature circuit) | K | | KVV |
| 61 | Heat dissipated by engine coolant - CP | В | | kW |
| 01 | (low-temperature circuit) | R | | KVV |
| 13 | Heat dissipated by engine coolant - CP | R | | kW |
| 15 | without oil heat, with charge-air heat | K | - | KVV |
| 15 | Heat dissipated by engine coolant - CP | | - | kW |
| 15 | with oil heat, without charge-air heat | R | | |
| 16 | Heat dissipated by engine coolant - FSP | R | 700 | kW |
| 10 | with oil heat, without charge-air heat | K | | |
| 17 | Heat dissipated by engine coolant - CP | В | | 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 | 480 | kW |
| 38 | Heat dissipated by exhaust gas - CP | R | - | kW |

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Applicable
The module is valid for this product type

Non-applicable
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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 12V4000G84S 1800 **Application Group** Nominal power [kW] 1910 3D Dataset Ref. 25°C/55°C Nominal power [bhp] 2561 Frequency [Hz] 60

Exhaust Regulations Fuel-consumption optimized;

| 31 | Heat dissipated by return fuel flow - CP | R | - | kW |
|----|---|---|----|-----|
| 32 | Heat dissipated by return fuel flow - FSP | R | 5 | kW |
| 33 | Radiation and convection heat, engine - CP | R | - | kW |
| 34 | Radiation and convection heat, engine - FSP | R | 75 | kW |
| 35 | Radiation and convection heat, genset - CP | 2 | | kW |
| 33 | (engine + generator + 10m insulated exhaust pipework) | K | | KVV |

7. Coolant system (high-temperature circuit)

| No. | Description | Index | Value | Unit |
|-----|--|-------|-------|--------------|
| | Coolant temperature | | | |
| 9 | (at engine outlet to cooling equipment; | Α | - | °C |
| | with max. 40% antifreeze) | | | |
| 17 | Coolant temperature | А | 100 | °C |
| 17 | (at engine outlet to cooling equipment) | ^ | 100 | |
| 57 | Coolant temperature differential after/before engine, from | R | 8 | K |
| 58 | Coolant temperature differential after/before engine, to | R | 10 | K |
| 23 | Coolant temperature differential after/before engine | L | 12 | 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 | А | 67 | 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 | 3.0 | har |
| 39 | with thermostat | K | 3.0 | 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. | L | 0.7 | bar |
| 43 | without thermostat | L | 0.7 | bar |
| 70 | Pressure loss in off-engine cooling system, min. | | 0.55 | hau |
| 70 | without thermostat | L | 0.55 | bar |
| 45 | Flow resistance (X) coefficient | | 0.70 | |
| 45 | engine w/ thermostat, w/o cooling equipment | R | 0.78 | mbar/(m³/h)² |
| 47 | 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 | A | 2.5 | bar |
| 70 | Coolant level in expansion tank, below min. | | | |
| 73 | alarm | L | - | - |
| | Coolant level in expansion tank, below min. | i | , | |
| 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 |
|--|-----|-------------|-------|-------|------|
|--|-----|-------------|-------|-------|------|

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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

X Applicable
The module is valid for this product type
Non-applicable
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N Value not named
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Technical Sales Document - Product Data -



Speed [rpm] Name 12V4000G84S 1800 **Application Group** Nominal power [kW] 1910 3D Dataset Ref. 25°C/55°C Nominal power [bhp] 2561 Frequency [Hz] 60

| | | | Frequency [Hz] | 60 |
|------------|--|------|----------------|------|
| Exhau | st Regulations Fuel-consumption optimized; | | | |
| 53 | Coolant temperature | R | 69 | °C |
| 33 | (at engine outlet to cooling equipment) | IX. | 03 | C |
| 9 | Coolant temperature before intercooler | А | 55 | °c |
| 9 | (at engine inlet from cooling equipment) | A | 55 | C |
| 14 | Coolant temperature before intercooler, limit 1 | L | 75 | °C |
| 61 | Coolant temperature before intercooler, shutdown | L | - | °C |
| 15 | Coolant temperature before intercooler, limit 2 | L | - | °C |
| 54 | Coolant temperature differential after/before | L | 12 | к |
| 34 | intercooler, min. | L | 12 | N. |
| 55 | Coolant temperature differential after/before | | 16 | К |
| 55 | intercooler, max. | L | 10 | K |
| 13 | Coolant antifreeze content, max. | L | 50 | % |
| 17 | Charge-air temperature after intercooler, max. | L | 80 | °C |
| 76 | Temperature differential between intake air and | | 30 | V |
| 76 | charge-air coolant before intercooler | А | 30 | K |
| 75 | Temperature differential between intake air and | | 22 | ., |
| 75 | charge-air coolant before intercooler, max. | L | 32 | K |
| 45 | Charge-air temperature after intercooler, max. | | | 0.0 |
| 45 | for compliance with "TA-Luft" at CP | L | - | °C |
| 56 | Coolant pump: flow rate | А | 35 | m³/h |
| 20 | Cooling equipment: coolant flow rate | А | 35 | m³/h |
| 21 | Intercooler: coolant flow rate | R | 35 | m³/h |
| 22 | Coolant pump: pressure differential | R | 2.0 | 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 |
| 24 | Pressure loss in off-engine cooling system, max. | | 0.7 | |
| 31 | without thermostat | L | 0.7 | bar |
| C 2 | Pressure loss in off-engine cooling system, min. | | 0.55 | |
| 63 | without thermostat | L | 0.55 | bar |
| 43 | Cooling equipment: height above engine, max. | L | 15 | m |
| | Breather valve (expansion tank) | | | |
| 36 | opening pressure (excess pressure) | R | 1.0 | bar |
| | Breather valve (expansion tank) | _ | | |
| 37 | opening pressure (depression) | R | -0.1 | bar |
| 42 | Cooling equipment: operating pressure | Α | 2.5 | bar |
| | Coolant level in expansion tank, below min. | | | |
| 67 | alarm | L | - | - |
| co | Coolant level in expansion tank, below min. | | v | |
| 68 | shutdown | L | X | - |
| 39 | Thermostat, starts to open | R | 38 | °C |
| 40 | Thermostat, bypass closed | R | 51 | °C |
| 41 | Thermostat, fully open | R | 51 | °C |
| | 1 1 | 15.5 | | |

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 |
| 3 | Lube oil operating temp. after engine, from | R | 98 | °C |
| 4 | Lube oil operating temp. after engine, to | R | 108 | °C |
| 5 | Lube oil temperature before engine, limit 1 | L | 99 | °C |
| 6 | Lube oil temperature before engine, limit 2 | L | 101 | °C |

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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
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Technical Sales Document - Product Data -



Speed [rpm] Name 12V4000G84S 1800 **Application Group** Nominal power [kW] 1910 3D Dataset Ref. 25°C/55°C Nominal power [bhp] 2561 Frequency [Hz] 60

Exhaust Regulations Fuel-consumption ontimized.

| LAIIaus | ruel-consumption optimized; | | | |
|---------|---|----|-------|-----------|
| 7 | Lube oil operating pressure before engine (measuring block) | R | 6.5 | bar |
| 8 | Lube oil operating press. bef. engine, from | R | 5.0 | bar |
| 9 | Lube oil operating press. bef. engine, to | R | 7.0 | 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 |
| 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 | 749 | liter/min |
| 19 | Lube oil fine filter (main circuit): | | E | |
| 19 | number of units | | 3 | |
| 20 | Lube oil fine filter (main circuit): | | 1 | |
| 20 | number of elements per unit | | | |
| 21 | Lube oil fine filter (main circuit): | R | 0.014 | mm |
| 21 | particle retention | N. | 0.014 | mm |
| 32 | Lube oil fine filter (main circuit): | | 1.5 | har |
| 32 | pressure differential, max. | L | 1.5 | bar |
| 35 | Lube oil fine filter (main circuit): | | v | |
| 33 | make (standard): MANN & HUMMEL | | X | |

11. Fuel system

| No. | Description | Index | Value | Unit |
|-----|--|-------|-------|-----------|
| | Fuel pressure at fuel feed connection, min. | l. | 0.4 | i. |
| 1 | (when engine is starting) | L | -0.1 | bar |
| | Fuel pressure at fuel feed connection, min. | | 0.0 | |
| 57 | (when engine is running) | L | -0.3 | bar |
| 2 | Fuel pressure at fuel feed connection, max. | | 1.5 | h |
| 2 | (when engine is starting) | L | 1.5 | bar |
| 65 | Fuel pressure at fuel feed connection, max. | | 0.5 | hau |
| 05 | (permanent) | L | 0.5 | bar |
| 37 | Fuel supply flow, max. | А | 16 | liter/min |
| 1 | Fuel pressure before injection pump, from | R | 6.0 | bar |
| 4 | (high-pressure pump) | N | 0.0 | Dai |
| 5 | Fuel pressure before injection pump, to | R | 7.5 | bar |
| J | (high-pressure pump) | N. | 7.5 | Dai |
| 6 | Fuel pressure before injection pump, min. | L | 5.0 | bar |
| 5 | (high-pressure pump) | _ | 5.0 | Dai |
| 7 | Fuel pressure before injection pump | L | 1.5 | bar |
| , | with engine not running, max. (high-pressure pump) | L . | 1.5 | Dai |
| 8 | Fuel return flow, max. | Α | 5 | liter/min |
| 10 | Fuel pressure at return connection on engine, max. | L | 0.5 | bar |
| 12 | Fuel temperature differential before/after engine | R | 30 | K |
| 38 | Fuel temperature after high-pressure pump, alarm | L | 100 | °C |
| 15 | Fuel prefilter: number of units | Α | - | - |
| 16 | Fuel prefilter: number of elements per unit | Α | - | - |
| 17 | Fuel prefilter: particle retention | Α | - | mm |
| 29 | Fuel prefilter: make (standard): MANN & HUMMEL | | - | - |
| 18 | Fuel fine filter (main circuit): number of units | Α | 1 | - |
| 19 | Fuel fine filter (main circuit): number of elements per unit | A | 1 | - |
| 20 | Fuel fine filter (main circuit): particle retention | A | 0.005 | mm |
| 21 | Fuel fine filter (main circuit): pressure differential, max. | L | 1.0 | bar |
| 32 | Fuel fine filter (main circuit): | | x | _ |
| | make (standard): MANN & HUMMEL | | | |

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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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Technical Sales Document - Product Data -



Name 12V4000G84S **Application Group** 3D

Dataset Ref. 25°C/55°C

Speed [rpm] 1800 Nominal power [kW] 1910 Nominal power [bhp] 2561 Frequency [Hz] 60

Exhaust Regulations Fuel-consumption optimized;

12. General operating data

| 12. Ger | neral operating data | | | |
|----------|--|----------|-------|-----------|
| No. | Description | Index | Value | Unit |
| 1 | Cold start capability: air temperature | R | 10 | °C |
| 1 | (w/o starting aid, w/o preheating) - (case A) | N. | 10 | C |
| 2 | Additional condition (to case A): | R | 10 | °C |
| 2 | engine coolant temperature | N | 10 | C |
| 3 | Additional condition (to case A): lube oil temperature | R | 10 | °C |
| 4 | Additional condition (to case A): lube oil viscosity | R | 30 | SAE |
| 9 | Cold start capability: air temperature | R | 0 | °C |
| , | (w/o starting aid, w/ preheating) - (case C) | IX. | O | C |
| 10 | Additional condition (to case C): | R | 40 | °C |
| 10 | engine coolant temperature | N | 40 | C |
| 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 | °C |
| 3506 | Coolant preheating, preheating temperature, max. | L | 55 | °C |
| 23 | Lube oil priming pump: flow rate | R | N | liter/min |
| 24 | Lube oil priming pump: pressure | R | N | bar |
| 25 | Lube oil priming pump: rated power | R | N | kW |
| 26 | Lube oil priming pump: cut-in interval | R | N | min |
| 20 | pump cut-in every minutes | K | IN . | min |
| 27 | Lube oil priming pump: cut-in duration | R | N | min |
| 28 | Breakaway torque (without driven machinery) | R | 1650 | Nim |
| 20 | coolant temperature +5°C | K | 1030 | Nm |
| 30 | Breakaway torque (without driven machinery) | D | 1300 | Nima |
| 30 | coolant temperature +40°C | R | 1300 | Nm |
| 29 | Cranking torque at firing speed (without driven machinery) | 0 | 900 | Nima |
| 29 | coolant temperature +5°C | R | 900 | Nm |
| 24 | Cranking torque at firing speed (without driven machinery) | | cco | Nima |
| 31 | coolant temperature +40°C | R | 660 | Nm |
| 0.0 | Starting is blocked if the engine coolant temperature is | | | 0.0 |
| 96 | below | | 0 | °C |
| 00 | Run-up period to rated speed | _ | | |
| 92 | (without driven machinery) | R | N | S |
| | Run-up period to rated speed | | | |
| 93 | (with driven machinery) | R | 6 | S |
| | (* at general conditions) | | | |
| 37 | High idling speed, max. (static) | L | 1900 | rpm |
| 38 | Limit speed for overspeed alarm / emergency shutdown | i i | 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 | | | • |
| 44 | min. | R | 60 | °C |
| 3515 | Minimum continuous load (operation > 10h) | R | 30 | kW/cyl |
| | Extended low or no-load operation possible | | | , -, |
| 49 | (consultation required) | | X | - |
| | Engine mass moment of inertia | | | _ |
| 50 | (without flywheel) | R | 9.7 | kgm² |
| 52 | Standard flywheel mass moment of inertia | R | 10.25 | kgm² |
| <u>-</u> | personal of the control of the contr | 1., | 20.20 | יייסייו |

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%)

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Technical Sales Document - Product Data -



Speed [rpm] Name 12V4000G84S 1800 **Application Group** Nominal power [kW] 1910 3D Dataset Ref. 25°C/55°C Nominal power [bhp] 2561 Frequency [Hz]

Exhaust Regulations Fuel-consumption optimized;

| 51 | Engine mass moment of inertia (with standard flywheel) | R | 19.95 | kgm² |
|----|---|---|-------|------|
| 69 | Speed droop (with electronic governor) adjustable, from | R | 0 | % |
| 70 | Speed droop (with electronic governor) adjustable, to | R | 8 | % |
| 95 | Number of starter ring-gear teeth on engine flywheel | | 182 | - |

13. Starting (electric)

| | ting (electric) | | | |
|----------------------|---|--------|----------------------|----------------|
| | Description | Index | Value | Unit |
| | Manufacturer | | Delco | - |
| 2310 | Number of starter | | 2 | - |
| 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 |
| 2246 | Power consumption per starter | _ | 500 | |
| 2316 | (at an engine speed of 100 rpm) | R | 580 | Α |
| 2317 | Internal resistance of power supply + line resistance per starter | Α | 0.008 | Ω |
| 2318 | Manufacturer | | Bosch | - |
| 2319 | Number of starter | | 2 | - |
| | Starter electrically redundant | | - | - |
| | Rated power per starter | R | 11.3 | kW |
| 2322 | Starter, rated voltage | R | 24 | VDC |
| | Rated short-circuit current per starter | i | 2190 | A |
| | Power consumption per starter | - | | |
| 2324 | (at an engine speed of 100 rpm) | R | 750 | Α |
| 2325 | Internal resistance of power supply + line resistance per starter | А | 0.0047 | Ω |
| 2326 | Manufacturer | A | Prestolite | |
| | Number of starter | | 1 | - |
| 2328 | Starter electrically redundant | | 1 | - |
| | Rated power per starter | R | 15 | kW |
| | Starter, rated voltage | R | 24 | VDC |
| | Rated short-circuit current per starter | K | 3000 | A |
| 2331 | | L | 3000 | A |
| 2332 | Power consumption per starter | R | 1400 | Α |
| 2222 | (at an engine speed of 100 rpm) | | 0.0045 | - |
| 2333 | Internal resistance of power supply + line resistance per starter | A | 0.0045 | Ω |
| 2334 | Manufacturer | | Prestolite | - |
| | Number of starter | | 2 | - |
| 2336 | Starter electrically redundant | | Х | - |
| | Rated power per starter | R | 15 | kW |
| | Starter, rated voltage | R | 24 | VDC |
| 2339 | Rated short-circuit current per starter | L | 3000 | А |
| 2340 | Power consumption per starter | R | 1400 | A |
| 2540 | (at an engine speed of 100 rpm) | 1 | 1400 | 7 |
| 2341 | Internal resistance of power supply + line resistance per starter | Α | 0.0045 | Ω |
| 3374 | Manufacturer | | Prestolite | - |
| | | | 2 | - |
| 2276 | Number of starter | | | |
| 3376 | Number of starter Starter electrically redundant | | - | - |
| | | R | - 9 | - kW |
| | Starter electrically redundant | R R | - | - kW VDC |
| 3377 3378 | Starter electrically redundant Rated power per starter Starter, rated voltage | | 9 | |
| 3377 3378 3379 | Starter electrically redundant Rated power per starter Starter, rated voltage Rated short-circuit current per starter | R L | - 9 24 1900 | VDC A |
| 3377 3378 | Starter electrically redundant Rated power per starter Starter, rated voltage | R | - 9 24 | VDC |

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 12V4000G84S 1800 **Application Group** Nominal power [kW] 1910 3D Dataset Ref. 25°C/55°C Nominal power [bhp] 2561 Frequency [Hz]

Exhaust Regulations Fuel-consumption optimized;

| | r del-consumption optimized, | | | |
|------|--|---|-----|-----|
| 2347 | Generally valid data for starter | | Х | - |
| 2342 | Rated starting-attempt Duration (at +20°C ambient temperature with battery | R | 5 | s |
| 2343 | Interval between starts | | 20 | |
| 2343 | (at rated starting-attempt duration), min. | l | 20 | S |
| 2345 | Maximum acceptable starting-attempt duration | L | 15 | s |
| 2344 | Interval between starts | 0 | 60 | |
| 2344 | (when starting-attempt duration > rated starting-attempt duration) | R | 80 | 5 |
| 2346 | Starting attempts within 30 minutes | | 6 | |
| 2340 | (at +20°C ambient temperature with battery full), max. | L | О | - |
| 3565 | Disengagement of starter pinion at engine Speed | 0 | 400 | |
| 3303 | Note: Exceeding the guideline value of the disengagement speed will reduce | R | 400 | rpm |
| 3566 | Disengagement of starter pinion at engine speed, max. | L | 500 | rpm |

14. Starting (air in cylinder)

| 14. St | arting (air in cylinder) | | | |
|--------|---|-------|-------|--------|
| No. | Description | Index | Value | Unit |
| 1 | Starting air pressure before engine, min. | R | - | bar |
| 2 | Starting air pressure before engine, max. | R | - | bar |
| 3 | Starting air pressure before engine, min. | L | - | bar |
| 4 | Starting air pressure before engine, max. | L | - | bar |
| 20 | Start attempt duration (engine preheated) | R | - | S |
| 21 | Start attempt duration (engine not preheated) | R | - | S |
| 22 | Start attempt duration | L | - | S |
| 23 | Air consumption / start attempt (engine preheated) | R | - | m³n |
| 24 | Air consumption / start attempt (engine not preheated) | R | - | m³n |
| 25 | Starting air tank for 3 start attempts (max. 40 bar) (engine preheated) | R | - | liter |
| | Starting air tank for 3 start attempts | | | |
| 26 | (max. 30 bar) (engine preheated) | R | - | liter |
| | Starting air tank for 6 start attempts | | | |
| 27 | (max. 40 bar) (engine preheated) | R | | liter |
| 28 | Starting air tank for 6 start attempts | В | | lian |
| 20 | (max. 30 bar) (engine preheated) | R | [| liter |
| 29 | Starting air tank for 10 start attempts | D | | liter |
| 29 | (max. 40 bar) (engine preheated) | R | | inter |
| 30 | Starting air tank for 10 start attempts | R | | liter |
| 30 | (max. 30 bar) (engine preheated) | N | | iitei |
| 31 | Starting air tank for 3 start attempts | R | | liter |
| 31 | (max. 40 bar) (engine not preheated) | ĸ | - | liter |
| 32 | Starting air tank for 3 start attempts | D | | lika a |
| 32 | (max. 30 bar) (engine not preheated) | R | [| liter |
| 33 | Starting air tank for 6 start attempts | | | lia |
| 33 | (max. 40 bar) (engine not preheated) | R | - | liter |
| 34 | Starting air tank for 6 start attempts | | | lia |
| 34 | (max. 30 bar) (engine not preheated) | R | - | liter |
| 35 | Starting air tank for 10 start attempts | D | | litor |
| 22 | (max. 40 bar) (engine not preheated) | R | | liter |
| 36 | Starting air tank for 10 start attempts | В | | litor |
| 30 | (max. 30 bar) (engine not preheated) | R | [| liter |

15. Starting (pneumatic/oil pressure starter)

| Ī | No. | Description | Index | Value | Unit |
|---|------|-------------|--------|-------|-------|
| | INO. | Description | illuex | value | UIIIL |

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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Technical Sales Document - Product Data -



Speed [rpm] Name 12V4000G84S 1800 **Application Group** Nominal power [kW] 1910 3D Dataset Ref. 25°C/55°C Nominal power [bhp] 2561 Frequency [Hz] 60

| Exhaust Regulations Fuel-consumption optimized; 35 Pneumatic starter: make Gali | ar ar ar ar |
|--|----------------------------|
| Starting air pressure before starter motor, min. R | ar ar ar ar |
| Starting air pressure before starter motor, min. Starting air pressure before starter motor, max. Starting air pressure before starter motor, min. Starting air pressure before starter motor, min. Starting air pressure before starter motor, max. L 9 bar Start attempt duration (engine preheated) Start attempt duration (engine preheated) Start attempt duration (engine not preheated) Start attempt duration (engine not preheated) Start attempt duration, max. L - s S Air consumption/start attempt (engine preheated) Engine without generator Control with engine controller Air consumption/start attempt (engine not preheated) Engine without generator Control with engine controller Air consumption with external control for air-starter (per second) Starting air tank for 3 start attempts (max. 40 bar) (engine preheated) Starting air tank for 3 start attempts (max. 40 bar) (engine preheated) Starting air tank for 5 start attempts (max. 40 bar) (engine preheated) Starting air tank for 5 start attempts (max. 40 bar) (engine preheated) Starting air tank for 6 start attempts (max. 40 bar) (engine preheated) Starting air tank for 6 start attempts (max. 40 bar) (engine preheated) Starting air tank for 6 start attempts (max. 40 bar) (engine preheated) Starting air tank for 10 start attempts (max. 40 bar) (engine preheated) Starting air tank for 10 start attempts (max. 40 bar) (engine preheated) Starting air tank for 10 start attempts (max. 40 bar) (engine preheated) Starting air tank for 10 start attempts (max. 40 bar) (engine preheated) R - lite (max. 30 bar) (engine preheated) R - lite Starting air tank for 10 start attempts (max. 40 bar) (engine preheated) R - lite (max. 30 bar) (engine preheated) R - lite (max. 30 bar) (engine preheated) | ar ar ar ar |
| 6 Starting air pressure before starter motor, max. 7 Starting air pressure before starter motor, min. 8 Starting air pressure before starter motor, min. 1 L 8 bar 8 Starting air pressure before starter motor, min. 1 L 8 bar 8 Starting air pressure before starter motor, max. 1 L 9 bar 18 Start attempt duration (engine preheated) R 3 S 19 Start attempt duration (engine not preheated) R 5 S 20 Start attempt duration, max. L - s Air consumption/start attempt (engine preheated) Engine without generator Control with engine controller Air consumption/start attempt (engine not preheated) Engine without generator Control with engine controller Air consumption with external control for air-starter (per second R 0.6 m³s Starting air tank for 3 start attempts (max. 40 bar) (engine preheated) R - lite Starting air tank for 3 start attempts (max. 30 bar) (engine preheated) R - lite Starting air tank for 6 start attempts (max. 30 bar) (engine preheated) R - lite Starting air tank for 6 start attempts (max. 30 bar) (engine preheated) R - lite Starting air tank for 6 start attempts (max. 30 bar) (engine preheated) R - lite Starting air tank for 10 start attempts (max. 30 bar) (engine preheated) R - lite Starting air tank for 10 start attempts (max. 30 bar) (engine preheated) R - lite Starting air tank for 10 start attempts (max. 30 bar) (engine preheated) R - lite Starting air tank for 10 start attempts (max. 30 bar) (engine preheated) R - lite Starting air tank for 10 start attempts (max. 30 bar) (engine preheated) R - lite Starting air tank for 10 start attempts (max. 30 bar) (engine preheated) R - lite Starting air tank for 10 start attempts (max. 30 bar) (engine preheated) R - lite Starting air tank for 10 start attempts (max. 30 bar) (engine preheated) R - lite | ar ar ar ar |
| Starting air pressure before starter motor, min. L 8 bar | ar ar ³ n |
| 8 Starting air pressure before starter motor, max. 18 Start attempt duration (engine preheated) 19 Start attempt duration (engine not preheated) 19 Start attempt duration, max. 10 Start attempt duration, max. 10 L - Start attempt duration, max. 11 Air consumption/start attempt 114 (engine preheated) Engine without generator Control with engine controller Air consumption/start attempt (engine not preheated) Engine without generator Control with engine controller Air consumption with external control Engine without generator Control with engine controller 116 Air consumption with external control for air-starter (per second 23 Starting air tank for 3 start attempts (max. 40 bar) (engine preheated) 24 Starting air tank for 3 start attempts (max. 30 bar) (engine preheated) 25 Starting air tank for 6 start attempts (max. 40 bar) (engine preheated) 26 Starting air tank for 6 start attempts (max. 40 bar) (engine preheated) 27 Starting air tank for 6 start attempts (max. 40 bar) (engine preheated) 28 Starting air tank for 10 start attempts (max. 40 bar) (engine preheated) 29 Starting air tank for 10 start attempts (max. 40 bar) (engine preheated) R - lite 10 Starting air tank for 10 start attempts (max. 40 bar) (engine preheated) R - lite 116 Starting air tank for 10 start attempts (max. 40 bar) (engine preheated) R - lite 127 Starting air tank for 10 start attempts (max. 40 bar) (engine preheated) R - lite 128 Starting air tank for 10 start attempts (max. 40 bar) (engine preheated) R - lite 129 Starting air tank for 3 start attempts R - lite 130 Starting air tank for 10 start attempts (max. 40 bar) (engine preheated) R - lite 140 Starting air tank for 10 start attempts (max. 40 bar) (engine preheated) R - lite 15 Starting air tank for 10 start attempts (max. 40 bar) (engine preheated) R - lite 16 Starting air tank for 10 start attempts (max. 40 bar) (engine preheated) R - lite 17 Starting air tank for 10 start attempts (max. 40 bar) (engine preheated) | ar ³ n |
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| Starting air tank for 6 start attempts (max. 40 bar) (engine preheated) R - lite Starting air tank for 6 start attempts (max. 30 bar) (engine preheated) Starting air tank for 10 start attempts (max. 40 bar) (engine preheated) R - lite Starting air tank for 10 start attempts (max. 40 bar) (engine preheated) R - lite Starting air tank for 10 start attempts (max. 30 bar) (engine preheated) R - lite Starting air tank for 3 start attempts (max. 30 bar) (engine preheated) | er |
| Compared to the compared of | |
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| (max. 30 bar) (engine preheated) 27 Starting air tank for 10 start attempts (max. 40 bar) (engine preheated) 28 Starting air tank for 10 start attempts (max. 30 bar) (engine preheated) 29 Starting air tank for 3 start attempts R N lite | er |
| 27 (max. 40 bar) (engine preheated) R - lite 28 Starting air tank for 10 start attempts (max. 30 bar) (engine preheated) R - lite R - lite | |
| (max. 40 bar) (engine preheated) 28 Starting air tank for 10 start attempts (max. 30 bar) (engine preheated) R - lite 29 Starting air tank for 3 start attempts R N lite | or |
| 28 (max. 30 bar) (engine preheated) R - lite 29 Starting air tank for 3 start attempts R N lite | |
| (max. 30 bar) (engine preheated) Starting air tank for 3 start attempts R N | |
| 179 I IR IN HITE | .er |
| (max. 40 bar) (engine not preheated) | |
| | .er |
| Starting air tank for 3 start attempts | |
| 30 (max. 30 bar) (engine not preheated) | .er |
| Starting air tank for 6 start attemnts | |
| 31 (max. 40 bar) (engine not preheated) | er |
| Starting air tank for 6 start attempts | |
| 32 (max. 30 bar) (engine not preheated) | er |
| Starting air tank for 10 start attempts | |
| 133 I Grand IIII III III III III III III III III | er |
| (max. 40 bar) (engine not preheated) | |
| Starting air tank for 10 start attempts R N lite | er |
| (max. 30 bar) (engine not preneated) | |
| 101 Hydraulic starter: make Huegli X - | |
| 102 Starting oil pressure before starter motor, min. R 107 bar | |
| 103 Starting oil pressure before starter motor, max. R 207 bar | |
| 104 Starting oil pressure before starter motor, min. L 107 bar | ar |
| 105 Starting oil pressure before starter motor, max. L 207 bar | ar |
| 107 Start attempt duration (engine not preheated) R N s | ar ar |
| 108 Start attempt duration, max. L N s | ar ar |
| Hydraulic oil consumption / start attempt | ar ar |
| 109 (engine preheated) | ar ar ar |

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 -



Speed [rpm] Name 12V4000G84S 1800 **Application Group** Nominal power [kW] 3D 1910 Dataset Ref. 25°C/55°C Nominal power [bhp] 2561 Frequency [Hz]

Exhaust Regulations Fuel-consumption optimized;

| | 110 | Hydraulic oil consumption / start attempt | D | N | liter |
|---|-----|--|-----|--------------|-------|
| ľ | 110 | (engine not preheated) | IN. | | iitei |
| | 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. | | 5 | |
| 17 | driving end up | L | | degrees (°) |
| | (Option: max. operating inclinations) | | | |
| | Longitudinal inclination, temporary max. | | | |
| 18 | driving end up | L | | degrees (°) |
| | (Option: max. operating inclinations) | | | |
| 19 | Transverse inclination, continuous max. | | 10 | dograps (°) |
| 19 | (Option: max. operating inclinations) | L | | degrees (°) |
| 20 | Transverse inclination, temporary max. | | - | degrees (°) |
| 20 | (Option: max. operating inclinations) | L | | uegrees () |

17. Inclinations - special oil system (ref.: waterline)

| No. | Description | Index | Value | Unit |
|-----|---|-------|-------|-------------|
| 1 | Longitudinal inclination, continuous max. | L | - | degrees (°) |
| 7 | Transverse inclination, continuous max. | L | - | degrees (°) |

18. Capacities

| No. | Description | Index | Value | Unit |
|-----|---|-------|-------|-------|
| 1 | Engine coolant capacity (without cooling equipment) | R | 160 | liter |
| 10 | Intercooler coolant capacity | R | 40 | liter |
| 11 | On-engine fuel capacity | R | 7 | liter |
| | Engine oil capacity, initial filling | | | |
| 14 | (standard oil system) | R | 260 | liter |
| | (Option: max. operating inclinations) | | | |
| | Oil change quantity, max. | | | |
| 20 | (standard oil system) | R | 200 | liter |
| | (Option: max. operating inclinations) | | | |
| | Oil pan capacity, dipstick mark min. | | | |
| 28 | (standard oil system) | L | 160 | liter |
| | (Option: max. operating inclinations) | | | |
| | Oil pan capacity, dipstick mark max. | | | |
| 29 | (standard oil system) | L | 200 | liter |
| | (Option: max. operating inclinations) | | | |

19. Masses / dimensions

| 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

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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Technical Sales Document - Product Data -



Speed [rpm] Name 12V4000G84S 1800 **Application Group** Nominal power [kW] 1910 3D Dataset Ref. 25°C/55°C Nominal power [bhp] 2561 Frequency [Hz]

Exhaust Regulations Fuel-consumption optimized;

| | | Engine mass, dry | | | |
|---|---|-------------------------------------|---|--------|----|
| | 9 | (basic engine configuration acc. to | R | 6200 * | kg |
| L | | scope of supply specification) | | | |

21. Exhaust emissions

| No. | Description | Index | Value | Unit |
|------|----------------------------|-------|---------------|------|
| 1072 | Emissions data sheet: | | EDS 4000 1216 | |
| 1972 | Fuel-consumption optimized | | 1210 | - |

22. Acoustics

| No. | Description | Index | Value | Unit |
|-----|---|-------|---------|-------|
| | Exhaust noise, unsilenced - CP | | | |
| 101 | (free-field sound-pressure level Lp, 1m distance, | R | _ | dB(A) |
| | ISO 6798, +3dB(A) tolerance) | | | , |
| 204 | Exhaust noise, unsilenced - CP | | | 10/4) |
| 201 | (sound power level LW, ISO 6798, +3dB(A) tolerance) | R | - | dB(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 | R | 129 | dB(A) |
| 202 | (sound power level LW, ISO 6798, +3dB(A) tolerance) | K | 129 | ub(A) |
| | Exhaust noise, unsilenced - CP | | | |
| 103 | (free-field sound-pressure level Lp, 1m distance, | R | | - |
| 103 | ISO 6798) | K | - | |
| | 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 | 733663e | - |
| | ISO 6798) Spectrum No. | | | |
| | Exhaust noise,unsilenced - FSP | | | |
| 204 | (sound power level LW, ISO 6798) | R | N | - |
| | Spectrum No. | | | |
| | Engine surface noise with attenuated | | | |
| 109 | intake noise (filter) - CP | R | - | dB(A) |
| 103 | (free-field sound-pressure level Lp, 1m distance, | IX. | | |
| | ISO 6798, +2dB(A) tolerance) | | | |
| | Engine surface noise with attenuated | | - | |
| 209 | intake noise (filter) - CP | R | | dB(A) |
| | (sound power level LW, ISO 6798, +2dB(A) tolerance) | | | |
| | Engine surface noise with attenuated | | 105 | |
| 110 | intake noise (filter) - FSP | R | | dB(A) |
| 110 | (free-field sound-pressure level Lp, 1m distance, | IX. | | |
| | ISO 6798, +2dB(A) tolerance) | | | |
| | Engine surface noise with attenuated | | | |
| 210 | intake noise (filter) - FSP | R | 124 | dB(A) |
| | (sound power level LW, ISO 6798, +2dB(A) tolerance) | | | |

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Applicable
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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

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Technical Sales Document - Product Data -



Speed [rpm] Name 12V4000G84S 1800 **Application Group** Nominal power [kW] 1910 3D Dataset Ref. 25°C/55°C Nominal power [bhp] 2561

| | 3, 22 3 | | Frequency [Hz] | 60 |
|---------|---|----|----------------|---------|
| Exhaust | Regulations Fuel-consumption optimized; | | | |
| | Engine surface noise with attenuated | | | |
| 111 | intake noise (filter) - CP | | | |
| 111 | (free-field sound-pressure level Lp, 1m distance, | R | - | - |
| | ISO 6798) Spectrum No. | | | |
| | Engine surface noise with attenuated | | | |
| 211 | intake noise (filter) - CP | | | |
| 211 | (sound power level LW, ISO 6798) | R | - | - |
| | Spectrum No. | | | |
| | Engine surface noise with attenuated | | | |
| 112 | intake noise (filter) - FSP | | 7226770 | |
| 112 | (free-field sound-pressure level Lp, 1m distance, | R | 733677e | - |
| | ISO 6798) Spectrum No. | | | |
| | Engine surface noise with attenuated | | | |
| 212 | intake noise (filter) - FSP | | N | |
| 212 | (sound power level LW, ISO 6798) | R | IN . | - |
| | 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) | | | |
| 231 | Engine surface noise, without intake noise - CP | р | | 4D(A) |
| 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) | | | |
| 217 | Intake noise, unsilenced - CP | R | _ | dB(A) |
| | (sound power level LW, ISO 6798) | ., | | GB() () |
| | 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. | | | |
| 126 | Structure borne noise at engine mounting brackets | | | |
| 126 | in vertical direction above resilient engine mounts - FSP | R | 733715e | - |
| | Spectrum No. | | | |
| 1 | Structure born noise, vertically below the resilient engine | | | |
| 127 | mounts - CP | R | - | - |
| | Spectrum No. | | | |

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