Edition 7/24/2020 Page 1/25	Technical Sales Docur - Product Data -	nent	A Rolls-Royce solution
Name	20V4000G63L	Speed [rpm]	1500
Application Group	3B	Nominal power [kW]	2590
Dataset	Ref. 25°C/55°C; 6 ETC	Nominal power [bhp]	3473
		Nominal power [kVA]	-
		Nominal power [kWel]	-
		Frequency [Hz]	50
Exhaust Regulations	Fuel-consumption optimized;		

Reference conditions

No.	Description	Index	Value	Unit
3	MTU data code		6	-
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

 BL
 Reference value: fuel stop power

 Maximum engine power that cannot be run continuously on some applications (stabilization reserve)
 DL

 DL
 Reference value: continuous power

 Engine power that can be run continuously under standard conditions
 Conditions

Actual value must be greater than specified value
 Actual value must be less than specified value

Applicable
 The module is valid for this product type
 Non-applicable
 The module is not valid for this product type
 Nalue not named
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Edition 7/24/2020 Page 2/25	Technical Sales Docui - Product Data -	ment mtu	A Rolls-Royce solution
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		Nominal power [kVA]	-
		Nominal power [kWel]	-
		Frequency [Hz]	50
Exhaust Regulations	Fuel-consumption optimized;		

0. Data-relevant engine design configuration

No.	Description	Index	Value	Unit
	Engine without sequential turbocharging (turbochargers without cut-in/cut-out control)		х	-

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		Nominal power [kVA]	-
		Nominal power [kWel]	-
		Frequency [Hz]	50
Exhaust Regulations	Fuel-consumption optimized;		

1. Power-related data

No.	Description	Index	Value	Unit
1	Engine rated speed	А	1500	rpm
3	Mean piston speed		10.5	m/s
4	Continuous power ISO 3046 (10% overload capability) (design power DIN 6280, ISO 8528)	A	2590	kW
5	Fuel stop power ISO 3046	А	2849	kW
8	Mean effective pressure (MEP) (Continuous power ISO 3046)		21.7	bar
9	Mean effective pressure (MEP) (Fuel stop power ISO 3046)		23.9	bar

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Edition 7/24/2020 Page 4/25	Technical Sales Docu - Product Data -	ment	A Rolls-Royce solution
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Dataset	Ref. 25°C/55°C; 6 ETC	Nominal power [bhp]	3473
		Nominal power [kVA]	-
		Nominal power [kWel]	-
		Frequency [Hz]	50
Exhaust Regulations	Fuel-consumption optimized;		

2. General Conditions (for maximum power)

No.	Description	Index	Value	Unit
46	Individual power calculation (ESCM) required for maximum power		Х	-
1	Intake air depression (new filter)	А	15	mbar
2	Intake air depression, max.	L	50	mbar
51	Exhaust overpressure (total pressure against atmosphere)	A	30	mbar
52	Exhaust overpressure, max. (total pressure against atmosphere)	L	85	mbar
5	Fuel temperature at fuel feed connection	R	25	°C
10	Fuel temperature at fuel feed connection, max.	L	55	°C
18	Fuel temperature at fuel feed connection, min.	L	-	°C

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- Product Data -



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		Nominal power [kVA]	-
		Nominal power [kWel]	-
		Frequency [Hz]	50
Exhaust Regulations	Fuel-consumption optimized;		

3. Consumption

No.	Description	Index	Value	Unit
17	Specific fuel consumption (be) - 100 % CP (+ 5 %; EN 590; 42.8 MJ/kg)	R	192	g/kWh
18	Specific fuel consumption (be) - 75 % CP (+ 5 %; EN 590; 42.8 MJ/kg)	R	192	g/kWh
19	Specific fuel consumption (be) - 50 % CP (+ 5 %; EN 590; 42.8 MJ/kg)	R	200	g/kWh
20	Specific fuel consumption (be) - 25 % CP (+ 5 %; EN 590; 42.8 MJ/kg)	R	224	g/kWh
21	Specific fuel consumption (be) - FSP (+ 5 %; EN 590; 42.8 MJ/kg)	R	196	g/kWh
73	No-load fuel consumption	R	35	kg/h
92	Lube oil consumption after 100 h of operation (B = fuel consumption per hour) Guideline value does not apply for the design of EGAT systems. Please consult the Applications Center with regard to the layout of EGA systems.	R	0.3	% of B
62	Lube oil consumption after 100 h of operation, max. (B = fuel consumption per hour)	L	1.0	% of B

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		Nominal power [kVA]	-
		Nominal power [kWel]	-
		Frequency [Hz]	50
Exhaust Regulations	Fuel-consumption optimized;		

4. Model-related data (basic design)

No.	Description	Index	Value	Unit
3	Engine with exhaust turbocharger (ETC) and intercooler		х	-
4	Exhaust piping, non-cooled		Х	-
5	Exhaust piping, liquid-cooled		-	-
33	Working method: four-cycle, diesel, single-acting		Х	-
34	Combustion method: direct injection		Х	-
36	Cooling system: conditioned water		Х	-
37	Direction of rotation: c.c.w. (facing driving end)		Х	-
6	Number of cylinders		20	-
7	Cylinder configuration: V angle		90	degrees (°)
10	Bore		170	mm
11	Stroke		210	mm
12	Displacement, cylinder		4.77	liter
13	Displacement, total		95.4	liter
14	Compression ratio		16.4	-
40	Cylinder heads: single-cylinder		Х	-
41	Cylinder liners: wet, replaceable		Х	-
42	Piston design: composite piston		-	-
49	Piston design: solid-skirt piston		Х	-
24	Number of inlet valves, per cylinder		2	-
25	Number of exhaust valves, per cylinder		2	-
15	Number of turbochargers		6	-
18	Number of intercoolers		1	-
28	Standard flywheel housing flange (engine main PTO)		00	SAE

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		Nominal power [kVA]	-
		Nominal power [kWel]	-

Exhaust Regulations Fuel-consumption optimized;

	Static bending moment at standard flywheel housing flange, max.	L	15	kNm
	Dynamic bending moment at standard flywheel housing flange, max.	L	75	kNm
43	Flywheel interface (DISC)		21	-

Frequency [Hz]

50

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Dataset	Ref. 25°C/55°C; 6 ETC	Nominal power [bhp]	3473
		Nominal power [kVA]	-
		Nominal power [kWel]	-
		Frequency [Hz]	50
Exhaust Regulations	Fuel-consumption optimized;		

5. Combustion air / exhaust gas

No.	Description	Index	Value	Unit
8	Charge-air pressure before cylinder - CP	R	2.8	bar abs
27	Charge-air pressure before cylinder - FSP	R	3.2	bar abs
9	Combustion air volume flow - CP	R	2.9	m³/s
10	Combustion air volume flow - FSP	R	3.2	m³/s
11	Exhaust volume flow (at exhaust temperature) - CP	R	7.7	m³/s
12	Exhaust volume flow (at exhaust temperature) - FSP	R	8.78	m³/s
15	Exhaust temperature after turbocharger - CP	R	565	°C
16	Exhaust temperature after turbocharger - FSP	R	585	°C

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		Nominal power [kVA]	-
		Nominal power [kWel]	-
		Frequency [Hz]	50

Exhaust Regulations Fuel-consumption optimized;

6. Heat dissipation

No.	Description	Index	Value	Unit
15	Heat dissipated by engine coolant - CP with oil heat, without charge-air heat	R	950	kW
16	Heat dissipated by engine coolant - FSP with oil heat, without charge-air heat	R	1050	kW
26	Charge-air heat dissipation - CP	R	410	kW
27	Charge-air heat dissipation - FSP	R	500	kW
31	Heat dissipated by return fuel flow - CP	R	7.5	kW
32	Heat dissipated by return fuel flow - FSP	R	-	kW
33	Radiation and convection heat, engine - CP	R	105	kW
34	Radiation and convection heat, engine - FSP	R	-	kW

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- Product Data -



Name	20V4000G63L	Speed [rpm]	1500
Application Group	3B	Nominal power [kW]	2590
Dataset	Ref. 25°C/55°C; 6 ETC	Nominal power [bhp]	3473
		Nominal power [kVA]	-
		Nominal power [kWel]	-
		Frequency [Hz]	50
Exhaust Regulations	Fuel-consumption optimized;		

7. Coolant system (high-temperature circuit)

No.	Description	Index	Value	Unit
17	Coolant temperature (at engine outlet to cooling equipment)	А	100	°C
57	Coolant temperature differential after/before engine, from	R	10	К
58	Coolant temperature differential after/before engine, to	R	12	к
23	Coolant temperature differential after/before engine	L	14	К
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	80	m³/h
35	Coolant pump: inlet pressure, min.	L	0.5	bar
36	Coolant pump: inlet pressure, max.	L	2.5	bar
41	Pressure loss in off-engine cooling system, max.	L	0.7	bar
47	Breather valve (expansion tank) 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
73	Coolant level in expansion tank, below min. alarm	L	-	-
74	Coolant level in expansion tank, below min. shutdown	L	Х	-
50	Thermostat, starts to open	R	79	°C
48	Breather valve (expansion tank) opening pressure (depression)	R	-0.1	bar

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

Edition 7/24/2020 Page 11/25

- Product Data -



Name	20V4000G63L	Speed [rpm]	1500
Application Group	3B	Nominal power [kW]	2590
Dataset	Ref. 25°C/55°C; 6 ETC	Nominal power [bhp]	3473
		Nominal power [kVA]	-
		Nominal power [kWel]	-
		Frequency [Hz]	50
Exhaust Regulations	Fuel-consumption optimized;		

8. Coolant system (low-temperature circuit)

No.	Description	Index	Value	Unit
9	Coolant temperature before intercooler (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
54	Coolant temperature differential after/before intercooler, min.	L	10	К
55	Coolant temperature differential after/before intercooler, max.	L	14	К
13	Coolant antifreeze content, max.	L	50	%
17	Charge-air temperature after intercooler, max.	L	80	°C
76	Temperature differential between intake air and charge-air coolant before intercooler	A	30	К
75	Temperature differential between intake air and charge-air coolant before intercooler, max.	L	32	К
45	Charge-air temperature after intercooler, max. for compliance with "TA-Luft" at CP	L	-	°C
20	Cooling equipment: coolant flow rate	Α	32.5	m³/h
21	Intercooler: coolant flow rate	R	32.5	m³/h
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
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	А	2.5	bar

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		Nominal power [kVA]	-
		Nominal power [kWel]	-

Exhaust Regulations Fuel-consumption optimized;

	Coolant level in expansion tank, below min. alarm	L	-	-
	Coolant level in expansion tank, below min. shutdown	L	Х	-
39	Thermostat, starts to open	R	38	C°

Frequency [Hz]

50

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- Product Data -



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		Nominal power [kVA]	-
		Nominal power [kWel]	-
		Frequency [Hz]	50
Exhaust Regulations	Fuel-consumption optimized;		

10. Lube oil system

No.	Description	Index	Value	Unit
1	Lube oil operating temp. before engine, from	R	88	°C
2	Lube oil operating temp. before engine, to	R	98	°C
5	Lube oil temperature before engine, limit 1	L	99	°C
6	Lube oil temperature before engine, limit 2	L	101	°C
8	Lube oil operating press. bef. engine, from	R	4.4	bar
9	Lube oil operating press. bef. engine, to	R	7.2	bar
33	Lube oil pressure before engine, limit 1(speed-related value, consult MTU)	L	3.5	bar
34	Lube oil pressure before engine, limit 2 (speed- related value, consult MTU)	L	3.2	bar
19	Lube oil fine filter (main circuit): number of units		1	-
20	Lube oil fine filter (main circuit): number of elements per unit		5	-
21	Lube oil fine filter (main circuit): particle retention	R	0.014	mm
32	Lube oil fine filter (main circuit): pressure differential, max.	L	1.5	bar

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- Product Data -



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		Nominal power [kVA]	-
		Nominal power [kWel]	-
		Frequency [Hz]	50
Exhaust Regulations	Fuel-consumption optimized;		

11. Fuel system

No.	Description	Index	Value	Unit
1	Fuel pressure at engine fuel feed connection, min. (when engine is starting)	L	-0.1	bar
2	Fuel pressure at engine fuel feed connection, max. (when engine is starting)	L	1.5	bar
65	Fuel pressure at engine fuel feed connection, max. (when engine is running)	L	0.5	bar
37	Fuel supply flow, max.	А	27	liter/min
8	Fuel return flow, max.	А	7	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	А	-	-
17	Fuel prefilter: particle retention	А	-	mm
18	Fuel fine filter (main circuit): number of units	А	1	-
19	Fuel fine filter (main circuit): number of elements per unit	A	1	-
20	Fuel fine filter (main circuit): particle retention	А	0.005	mm
21	Fuel fine filter (main circuit): pressure differential, max.	L	1.0	bar

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Edition 7/24/2020 Page 15/25

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		Nominal power [kVA]	-
		Nominal power [kWel]	-
		Frequency [Hz]	50
Exhaust Regulations	Fuel-consumption optimized;		

12. General operating data

No.	Description	Index	Value	Unit
1	Cold start capability: air temperature (w/o starting aid, w/o preheating) - (case A)	R	10	°C
2	Additional condition (to case A): engine coolant temperature	R	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 (w/o starting aid, w/ preheating) - (case C)	R	0	°C
10	Additional condition (to case C): engine coolant temperature	R	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	9.0	kW
22	Coolant preheating, preheating temperature, min.	L	32	°C
3506	Coolant preheating, preheating temperature, max.	L	55	°C
28	Breakaway torque (without driven machinery) coolant temperature +5°C	R	2600	Nm
30	Breakaway torque (without driven machinery) coolant temperature +40°C	R	2200	Nm
29	Cranking torque at firing speed (without driven machinery) coolant temperature +5°C	R	1400	Nm
31	Cranking torque at firing speed (without driven machinery) coolant temperature +40°C	R	1100	Nm
96	Starting is blocked if the engine coolant temperature is below		0	℃

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 Maximum engine power that cannot be run continuously on some applications (stabilization reserve)
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 Engine power that can be run continuously under standard conditions

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- Product Data -



Name	20V4000G63L	Speed [rpm]	1500
Application Group	3B	Nominal power [kW]	2590
Dataset	Ref. 25°C/55°C; 6 ETC	Nominal power [bhp]	3473
		Nominal power [kVA]	-
		Nominal power [kWel]	-
		Frequency [Hz]	50

Exhaust Regulations Fuel-consumption optimized;

93	Run-up period to rated speed (with driven machinery) (* at general conditions)	R	Ν	S
37	High idling speed, max. (static)	L	1700	rpm
38	Limit speed for overspeed alarm / emergency shutdown	L	1950	rpm
42	Firing speed, from	R	80	rpm
43	Firing speed, to	R	120	rpm
44	Engine coolant temperature before starting full-load operation, recommended min. (for emergency/standby sets with coolant preheating the minimum preheating temperature referred to extended property No.22 is sufficient)	R	60	℃
3515	Minimum continuous load (operation > 10h)	R	30	kW/cyl
50	Engine mass moment of inertia (without flywheel)	R	21.16	kgm²
51	Engine mass moment of inertia (with standard flywheel)	R	34.67	kgm²
69	Speed droop (with electronic governor) adjustable, from	R	0	%
70	Speed droop (with electronic governor) adjustable, to	R	7	%
95	Number of starter ring-gear teeth on engine flywheel		182	-

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- Product Data -



Name	20V4000G63L	Speed [rpm]	1500
Application Group	3B	Nominal power [kW]	2590
Dataset	Ref. 25°C/55°C; 6 ETC	Nominal power [bhp]	3473
		Nominal power [kVA]	-
		Nominal power [kWel]	-
		Frequency [Hz]	50
Exhaust Regulations	Fuel-consumption optimized;		

13. Starting (electric)

No.	Description	Index	Value	Unit
2309	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	A
2316	Power consumption per starter (at an engine speed of 100 rpm)	R	580	A
2317	Internal resistance of power supply + line resistance per starter	A	0.008	Ω
2318	Manufacturer		Bosch	-
2319	Number of starter		2	-
2320	Starter electrically redundant		-	-
2321	Rated power per starter	R	11.3	kW
2322	Starter, rated voltage	R	24	VDC
2323	Rated short-circuit current per starter	L	2190	A
2324	Power consumption per starter (at an engine speed of 100 rpm)	R	750	A
2325	Internal resistance of power supply + line resistance per starter	A	0.0047	Ω
2326	Manufacturer		Prestolite	-
2327	Number of starter		1	-
2328	Starter electrically redundant		-	-
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

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- Product Data -



Name	20V4000G63L	Speed [rpm]	1500
Application Group	3B	Nominal power [kW]	2590
Dataset	Ref. 25°C/55°C; 6 ETC	Nominal power [bhp]	3473
		Nominal power [kVA]	-
		Nominal power [kWel]	-
		Frequency [Hz]	50

Exhaust Regulations Fuel-consumption optimized;

2332	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		2	-
2336	Starter electrically redundant		Х	-
2337	Rated power per starter	R	15	kW
2338	Starter, rated voltage	R	24	VDC
2339	Rated short-circuit current per starter	L	3000	A
2340	Power consumption per starter (at an engine speed of 100 rpm)	R	1400	A
2341	Internal resistance of power supply + line resistance per starter	A	0.0045	Ω
2347	Generally valid data for starter		Х	-
2342	Rated starting-attempt Duration (at +20°C ambient temperature with battery full)	R	5	S
2343	Interval between starts (at rated starting-attempt duration), min.	L	20	S
2345	Maximum acceptable starting-attempt duration	L	15	S
2344	Interval between starts (when starting-attempt duration > rated starting- attempt duration)	R	60	S
2346	Starting attempts within 30 minutes (at +20°C ambient temperature with battery full), max.	L	6	-
3565	Disengagement of starter pinion at engine Speed Note: Exceeding the guideline value of the disengagement speed will reduce the life cycle of the starter depending on how often and how much the speed has been exceeded	R	400	rpm
3566	Disengagement of starter pinion at engine speed, max.	L	500	rpm

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- Product Data -



Name	20V4000G63L	Speed [rpm]	1500
Application Group	3B	Nominal power [kW]	2590
Dataset	Ref. 25°C/55°C; 6 ETC	Nominal power [bhp]	3473
		Nominal power [kVA]	-
		Nominal power [kWel]	-
		Frequency [Hz]	50
Exhaust Regulations	Fuel-consumption optimized;		

15. Starting (pneumatic/oil pressure starter)

No.	Description	Index	Value	Unit
5	Starting air pressure before starter motor, min.	R	8	bar
6	Starting air pressure before starter motor, max.	R	9	bar
7	Starting air pressure before starter motor, min.	L	8	bar
8	Starting air pressure before starter motor, max.	L	9	bar
18	Start attempt duration (engine preheated)	R	3	S
19	Start attempt duration (engine not preheated)	R	5	S
20	Start attempt duration, max.	L	-	S
114	Air consumption/start attempt (engine preheated) Engine without generator Control with engine controller	R	1.4	m³n
115	Air consumption/start attempt (engine not preheated) Engine without generator Control with engine controller	R	1.6	m³n
116	Air consumption with external control for air-starter (per second	R	0.7	m³n
23	Starting air tank for 3 start attempts (max. 40 bar) (engine preheated)	R	-	liter
24	Starting air tank for 3 start attempts (max. 30 bar) (engine preheated)	R	-	liter
25	Starting air tank for 6 start attempts (max. 40 bar) (engine preheated)	R	-	liter
26	Starting air tank for 6 start attempts (max. 30 bar) (engine preheated)	R	-	liter
27	Starting air tank for 10 start attempts (max. 40 bar) (engine preheated)	R	-	liter
28	Starting air tank for 10 start attempts (max. 30 bar) (engine preheated)	R	-	liter

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Edition 7/24/2020 Page 20/25	Technical Sales Docui - Product Data -	ment mtu	A Rolls-Royce solution
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Application Group	3B	Nominal power [kW]	2590
Dataset	Ref. 25°C/55°C; 6 ETC	Nominal power [bhp]	3473
		Nominal power [kVA]	-
		Nominal power [kWel]	-
		Frequency [Hz]	50
Exhaust Regulations	Fuel-consumption optimized;		

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

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

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- Product Data -



Name	20V4000G63L	Speed [rpm]	1500
Application Group	3B	Nominal power [kW]	2590
Dataset	Ref. 25°C/55°C; 6 ETC	Nominal power [bhp]	3473
		Nominal power [kVA]	-
		Nominal power [kWel]	-
		Frequency [Hz]	50
Exhaust Regulations	Fuel-consumption optimized;		

18. Capacities

No.	Description	Index	Value	Unit
1	Engine coolant capacity (without cooling equipment)	R	205 *	liter
10	Intercooler coolant capacity	R	50	liter
11	On-engine fuel capacity	R	9	liter
14	Engine oil capacity, initial filling (standard oil system) (Option: max. operating inclinations)	R	390 *	liter
20	Oil change quantity, max. (standard oil system) (Option: max. operating inclinations)	R	340 *	liter
28	Oil pan capacity, dipstick mark min. (standard oil system) (Option: max. operating inclinations)	L	268	liter
29	Oil pan capacity, dipstick mark max. (standard oil system) (Option: max. operating inclinations)	L	315	liter

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Edition 7/24/2020 Page 22/25	Technical Sales Docur - Product Data -	ment	A Rolls-Royce solution
Name	20V4000G63L	Speed [rpm]	1500
Application Group	3B	Nominal power [kW]	2590
Dataset	Ref. 25°C/55°C; 6 ETC	Nominal power [bhp]	3473
		Nominal power [kVA]	-
		Nominal power [kWel]	-
		Frequency [Hz]	50
Exhaust Regulations	Fuel-consumption optimized;		

19. Masses / dimensions

No.	Description	Index	Value	Unit
	Engine mass, dry (basic engine configuration acc. to scope of supply specification)	R	9290	kg

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Edition 7/24/2020 Page 23/25	Technical Sales Docur - Product Data -	ment	A Rolls-Royce solution
Name	20V4000G63L	Speed [rpm]	1500
Application Group	3B	Nominal power [kW]	2590
Dataset	Ref. 25°C/55°C; 6 ETC	Nominal power [bhp]	3473
		Nominal power [kVA]	-
		Nominal power [kWel]	-
		Frequency [Hz]	50
Exhaust Regulations	Fuel-consumption optimized;		

21. Exhaust emissions

No.	Description	Index	Value	Unit
1972	Emissions data sheet: Fuel-consumption optimized		EDS 40000461	-

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Edition 7/24/2020 Page 24/25

- Product Data -



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Dataset	Ref. 25°C/55°C; 6 ETC	Nominal power [bhp]	3473
		Nominal power [kVA]	-
		Nominal power [kWel]	-
		Frequency [Hz]	50
Exhaust Regulations	Fuel-consumption optimized;		

22. Acoustics

No.	Description	Index	Value	Unit
101	Exhaust noise, unsilenced - CP (free-field sound-pressure level Lp, 1m distance, ISO 6798, +3dB(A) tolerance)	R	114	dB(A)
201	Exhaust noise, unsilenced - CP (sound power level LW, ISO 6798, +3dB(A) tolerance)	R	127	dB(A)
102	Exhaust noise, unsilenced - FSP (free-field sound-pressure level Lp, 1m distance, ISO 6798, +3dB(A) tolerance)	R	-	dB(A)
202	Exhaust noise, unsilenced - FSP (sound power level LW, ISO 6798, +3dB(A) tolerance)	R	-	dB(A)
103	Exhaust noise, unsilenced - CP (free-field sound-pressure level Lp, 1m distance, ISO 6798) Spectrum No.	R	735825e	-
203	Exhaust noise,unsilenced - CP (sound power level LW, ISO 6798) Spectrum No.	R	N	-
104	Exhaust noise, unsilenced - FSP (free-field sound-pressure level Lp, 1m distance, ISO 6798) Spectrum No.	R	-	-
204	Exhaust noise,unsilenced - FSP (sound power level LW, ISO 6798) Spectrum No.	R	-	-
109	Engine surface noise with attenuated intake noise (filter) - CP (free-field sound-pressure level Lp, 1m distance, ISO 6798, +2dB(A) tolerance)	R	106	dB(A)
209	Engine surface noise with attenuated intake noise (filter) - CP (sound power level LW, ISO 6798, +2dB(A) tolerance)	R	126	dB(A)

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Edition 7/24/2020 Page 25/25	Technical Sales Docur - Product Data -	ment	A Rolls-Royce solution
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Application Group	3B	Nominal power [kW]	2590
Dataset	Ref. 25°C/55°C; 6 ETC	Nominal power [bhp]	3473
		Nominal power [kVA]	-
		Nominal power [kWel]	-
		Frequency [Hz]	50

Exhaust Regulations Fuel-consumption optimized;

110	Engine surface noise with attenuated intake noise (filter) - FSP (free-field sound-pressure level Lp, 1m distance, ISO 6798, +2dB(A) tolerance)	R	-	dB(A)
210	Engine surface noise with attenuated intake noise (filter) - FSP (sound power level LW, ISO 6798, +2dB(A) tolerance)	R	-	dB(A)
111	Engine surface noise with attenuated intake noise (filter) - CP (free-field sound-pressure level Lp, 1m distance, ISO 6798) Spectrum No.	R	735803e	-
211	Engine surface noise with attenuated intake noise (filter) - CP (sound power level LW, ISO 6798) Spectrum No.	R	Ν	-
112	Engine surface noise with attenuated intake noise (filter) - FSP (free-field sound-pressure level Lp, 1m distance, ISO 6798) Spectrum No.	R	-	-
212	Engine surface noise with attenuated intake noise (filter) - FSP (sound power level LW, ISO 6798) Spectrum No.	R	-	-
125	Structure borne noise at engine mounting brackets in vertical direction above resilient engine mounts - CP Spectrum No.	R	735847e	-
126	Structure borne noise at engine mounting brackets in vertical direction above resilient engine mounts - FSP Spectrum No.	R	-	-

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