- Product Data -



Name	20V4000G34F	Speed [rpm]	1500
Application Group	3B	Nominal power [kW]	2590
Dataset	Ref. 25°C/55°C	Nominal power [bhp]	3473
		Frequency [Hz]	50

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
12	Engine without sequential turbocharging		×	
15	(turbochargers without cut-in/cut-out control)		^	-

1. Power-related data

No.	Description	Index	Value	Unit
1	Engine rated speed	А	1500	rpm
2	Reduction gear - Output speed	А	-	rpm
3	Mean piston speed		10.5	m/s
4	Continuous power ISO 3046 (10% overload capability)	•	2590	kW
4	(design power DIN 6280, ISO 8528)	А	2590	ĸvv
5	Fuel stop power ISO 3046	А	2849	kW
0	Mean effective pressure (MEP)		21.7	har
0	(Continuous power ISO 3046)		21.7	bar
0	Mean effective pressure (MEP)		23.9	hau
9	(Fuel stop power ISO 3046)		23.9	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)		×	
40	required for maximum power		^	-
1	Intake air depression (new filter)	А	15	mbar
2	Intake air depression, max.	L	50	mbar
51	Exhaust overpressure	A	30	mbar
71	(total pressure against atmosphere)		30	IIIDai
52	Exhaust overpressure, max.	L	85	mbar
52	(total pressure against atmosphere)		85	IIIDal
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	55	C
10	Fuel temperature at fuel feed connection, max.	L	55	°C
18	Fuel temperature at fuel feed connection, min.	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

 X
 Applicable

 The module is valid for this product type
 Non-applicable

 Ibe module is not valid for this product type
 N

 M
 Value not named

 The value has not yet been named or will not be named
 Non-applicable

Adequate verification not yet available (tolerance +/-10%)
^{an} Adequate verification not yet available (tolerance +/-5%)

- Product Data -



Name	20V4000G34F	Speed [rpm]	1500
Application Group	3B	Nominal power [kW]	2590
Dataset	Ref. 25°C/55°C	Nominal power [bhp]	3473
		Frequency [Hz]	50

Exhaust Regulations

Fuel-consumption optimized;

3. Consumption

No.	Description	Index	Value	Unit
17	Specific fuel consumption (be) - 100 % CP	_	100	(1) + (1)
17	(+ 5 %; EN 590; 42.8 MJ/kg)	R	192	g/kWh
18	Specific fuel consumption (be) - 75 % CP		192	(1) A (1)
19	(+ 5 %; EN 590; 42.8 MJ/kg)	R	192	g/kWh
19	Specific fuel consumption (be) - 50 % CP	D	200	a /////h
19	(+ 5 %; EN 590; 42.8 MJ/kg)	R	200	g/kWh
20	Specific fuel consumption (be) - 25 % CP	R	224	g/kWh
20	(+ 5 %; EN 590; 42.8 MJ/kg)	ĸ	224	g/kvvn
21	Specific fuel consumption (be) - FSP	R	196	g/kWh
21	(+ 5 %; EN 590; 42.8 MJ/kg)	n	190	g/ K VV11
56	Specific fuel consumption (be) - 100 % FSP	R		g/kWh
50	(+ 5 %; EN 590; 42.8 MJ/kg)	n	-	g/ K V V I I
57	Specific fuel consumption (be) - 75 % FSP	R	_	g/kWh
57	(+ 5 %; EN 590; 42.8 MJ/kg)	ĸ		g/ K V V I I
58	Specific fuel consumption (be) - 50 % FSP	R	_	g/kWh
50	(+ 5 %; EN 590; 42.8 MJ/kg)	K	-	g/ K W 11
59	Specific fuel consumption (be) - 25 % FSP	R	_	g/kWh
	(+ 5 %; EN 590; 42.8 MJ/kg)	K		g/ K W 11
73	No-load fuel consumption	R	35	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	70 OI D

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		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 (°)
8	Cylinder configuration: in-line vertical		-	-
10	Bore		170	mm
11	Stroke		210	mm

 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
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Adequate verification not yet available (tolerance +/-10%)
^{an} Adequate verification not yet available (tolerance +/-5%)

- Product Data -



Name 20V4000G34F **Application Group** 3B Dataset

Ref. 25°C/55°C

Speed [rpm]	1500
Nominal power [kW]	2590
Nominal power [bhp]	3473
Frequency [Hz]	50

Exhaust Regulations

Fuel-consumption optimized;

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	-
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		6	-
16	Number of L.P. turbochargers		6	-
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	kNm
50	flywheel housing flange, max.	L	15	KINITI
51	Dynamic bending moment at standard		75	kNm
51	flywheel housing flange, max.	L	/5	KINM
29	Standard flywheel housing flange			CAF
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	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
13	Exhaust temperature before turbocharger - CP	R	700	°C
14	Exhaust temperature before turbocharger - FSP	R	740	°C
15	Exhaust temperature after turbocharger - CP	R	565	°C
16	Exhaust temperature after turbocharger - FSP	R	585	°C
17	Exhaust temperature after engine - CP	R	515	°C
18	Exhaust temperature after engine - FSP	R	535	°C

6. Heat dissipation

No.	Description	Index	Value	Unit
115	Heat dissipated by engine coolant - CP with oil heat, without charge-air heat	R	950	kW

 BL Reference value: fuel stop power

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

 DL Reference value: continuous power

 Engine power that can be run continuously under standard conditions

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

 X Applicable

 The module is valid for this product type

 Non-applicable

 The module is not valid for this product type

 Will applicable Work applicable

 The module is not valid for this product type

 Work applicable

 The walue has not yet been named or will not be named

Adequate verification not yet available (tolerance +/-10%)
^{an} Adequate verification not yet available (tolerance +/-5%)

- Product Data -



Name	20V4000G34F	Speed [rpm]	1500
Application Group	3B	Nominal power [kW]	2590
Dataset	Ref. 25°C/55°C	Nominal power [bhp]	3473
		Frequency [Hz]	50

Exhaust Regulations Fuel-con

Fuel-consumption optimized;

16	Heat dissipated by engine coolant - FSP	Р	1050	kW
10	with oil heat, without charge-air heat	R	1050	ĸvv
18	Heat dissipated by engine coolant - FSP	D		kW
10	without oil heat, without charge-air heat	R	-	ĸvv
23	Heat dissipated by oil - FSP	R	-	kW
25	Charge-air and oil heat dissipation - FSP	R	-	kW
26	Charge-air heat dissipation - CP	R	410	kW
27	Charge-air heat dissipation - FSP	R	500	kW
39	Heat dissipated by exhaust gas - FSP	R	-	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
36	Radiation and convection heat, genset - FSP			1.3.47
30	(engine + generator + 10m insulated exhaust pipework)	R	-	kW

7. Coolant system (high-temperature circuit)

No.	Description	Index	Value	Unit
	Coolant temperature			
9	(at engine outlet to cooling equipment;	А	-	°C
	with max. 40% antifreeze)			
17	Coolant temperature	•	100	20
17	(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
31	Coolant pump: pressure differential	R	2.25	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	1.7	bar
39	with thermostat	ĸ	1.7	Dai
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	bar
45	without thermostat	L	0.7	Ddi
70	Pressure loss in off-engine cooling system, min.	L	0.55	bar
70	without thermostat	L	0.55	Dai
47	Breather valve (expansion tank)		1.0	le e a
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
73	Coolant level in expansion tank, below min.			
15	alarm	L	-	-

 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%)
^{an} Adequate verification not yet available (tolerance +/-5%)

- Product Data -



Name	20V4000G34F	Speed [rpm]	1500
Application Group	3B	Nominal power [kW]	2590
Dataset	Ref. 25°C/55°C	Nominal power [bhp]	3473
		Frequency [Hz]	50

Exhaust Regulations

Fuel-consumption optimized;

74	Coolant level in expansion tank, below min. shutdown	L	x	-
50	Thermostat, starts to open	R	79	°C
51	Thermostat, bypass closed	R	92	°C
52	Thermostat, fully open	R	92	°C
48	Breather valve (expansion tank) 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
53	Coolant temperature	_	66	
53	(at engine outlet to cooling equipment)	R	00	°C
0	Coolant temperature before intercooler		FF	
9	(at engine inlet from cooling equipment)	А	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
E 4	Coolant temperature differential after/before		10	K
54	intercooler, min.	L	10	К
55	Coolant temperature differential after/before		14	K
22	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		30	
76	charge-air coolant before intercooler	А	50	К
75	Temperature differential between intake air and		32	K.
	charge-air coolant before intercooler, max.	L	32	к
45	Charge-air temperature after intercooler, max.		-	°C
45	for compliance with "TA-Luft" at CP	L		C
56	Coolant pump: flow rate	А	32.5	m³/h
18	Coolant pump: flow rate (± 5 %)	R	32.5	m³/h
20	Cooling equipment: coolant flow rate	А	32.5	m³/h
21	Intercooler: coolant flow rate	R	32.5	m³/h
22	Coolant pump: pressure differential	R	1.7	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.	L	0.7	bar
51	without thermostat	L	0.7	Dai
63	Pressure loss in off-engine cooling system, min.	L	0.55	bar
03	without thermostat	L	0.55	Dai
43	Cooling equipment: height above engine, max.	L	15	m
36	Breather valve (expansion tank)	R	1.0	bar
50	opening pressure (excess pressure)	n	1.0	Dai

 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%)
^{an} Adequate verification not yet available (tolerance +/-5%)

- Product Data -



Name	20V4000G34F	Speed [rpm]	1500
Application Group	3B	Nominal power [kW]	2590
Dataset	Ref. 25°C/55°C	Nominal power [bhp]	3473
		Frequency [Hz]	50

Exhaust Regulations Fuel-consumption optimized;

Breather valve (expansion tank) 37 -0.1 R bar opening pressure (depression) 42 Cooling equipment: operating pressure A 2.5 bar Coolant level in expansion tank, below min. 67 L alarm Coolant level in expansion tank, below min. 68 Х L shutdown 39 Thermostat, starts to open R 38 °C Thermostat, bypass closed 40 51 °C R 41 Thermostat, fully open 51 R °C

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
7	Lube oil operating pressure before engine	R	5.4	bar
/	(measuring block)	n	5.4	Dai
8	Lube oil operating press. bef. engine, from	R	4.4	bar
9	Lube oil operating press. bef. engine, to	R	7.2	bar
10	Lube oil pressure before engine, alarm	L	-	bar
33	Lube oil pressure before engine, limit 1(speed-related value, consult Rolls-	L	3.5	bar
11	Lube oil pressure before engine, shutdown	L	-	bar
34	Lube oil pressure before engine, limit 2 (speed-related value, consult Rolls-	L	3.2	bar
17	Lube oil pump(s): oil flow, total	R	835	liter/min
19	Lube oil fine filter (main circuit):		1	
19	number of units		T	-
20	Lube oil fine filter (main circuit):		5	
20	number of elements per unit		5	-
21	Lube oil fine filter (main circuit):	_	0.014	
21	particle retention	R	0.014	mm
22	Lube oil fine filter (main circuit):		1.5	la a u
32	pressure differential, max.	L	1.5	bar
25	Lube oil fine filter (main circuit):		× ·	
35	make (standard): MANN & HUMMEL		Х	-

11. Fuel system

No.	Description	Index	Value	Unit
1	Fuel pressure at engine fuel feed connection, min.		-0.1	bar
1	(when engine is starting)	L	-0.1	bar
2	Fuel pressure at engine fuel feed connection, max.		1.5	bar
2	(when engine is starting)	L	1.5	bar

 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

 X
 Applicable

 The module is valid for this product type

 Image: Second se

Adequate verification not yet available (tolerance +/-10%)
^{an} Adequate verification not yet available (tolerance +/-5%)

- Product Data -



Name	20V4000G34F	Speed [rpm]	1500
Application Group	3B	Nominal power [kW]	2590
Dataset	Ref. 25°C/55°C	Nominal power [bhp]	3473
		Frequency [Hz]	50

Exhaust Regulations

Fuel-consumption optimized;

57	Fuel pressure at engine fuel feed connection, min.		-0.3	
57	(when engine is running)	L	-0.3	bar
65	Fuel pressure at engine fuel feed connection, max.		0.5	har
05	(when engine is running)	L	0.5	bar
4211	Max. fuel supply volume	А	20.1	liter/min
4211	Normal mode	А	20.1	inter/min
4212	Max. fuel supply volume	А	22.6	liter/min
4212	Failure mode	A	22.0	inter/min
4	Fuel pressure before injection pump, from	R	6.0	bar
4	(high-pressure pump)	ĸ	0.0	Dar
5	Fuel pressure before injection pump, to	R	11.0	bar
5	(high-pressure pump)	ĸ	11.0	Dar
6	Fuel pressure before injection pump, min.		5.0	har
0	(high-pressure pump)	L	5.0	bar
7	Fuel pressure before injection pump		1.5	bar
/	with engine not running, max. (high-pressure pump)	L	1.5	Dar
4213	Max. fuel return volume	А	5.5	liter/min
4215	Normal mode	А	5.5	inter/min
4214	Max. fuel return volume	А	21.8	liter/min
4214	Failure mode	А	21.0	inter/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	A	-	-
16	Fuel prefilter: number of elements per unit	A	-	-
17	Fuel prefilter: particle retention	A	-	mm
29	Fuel prefilter: make (standard): MANN & HUMMEL		-	-
18	Fuel fine filter (main circuit): number of units	A	1	-
19	Fuel fine filter (main circuit): number of elements per unit	A	1	-
20	Fuel fine filter (main circuit): particle retention	A	0.005	mm
21	Fuel fine filter (main circuit): pressure differential, max.	L	1.0	bar
32	Fuel fine filter (main circuit):		x	-
	make (standard): MANN & HUMMEL			

12. General operating data

No.	Description	Index	Value	Unit
1	Cold start capability: air temperature	D	10	°C
	(w/o starting aid, w/o preheating) - (case A)	ĸ	10	C
2	Additional condition (to case A):	P	10	**
	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	15W40	SAE
0	Cold start capability: air temperature	D	0	°C
9	(w/o starting aid, w/ preheating) - (case C)	R	0	C
10	Additional condition (to case C):	D	40	°C
	engine coolant temperature	R	40	L
11	Additional condition (to case C): lube oil temperature	R	-10	°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

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

- Product Data -



Name 20V4000G34F Application Group 3B Dataset Ref. 25°C/55°C

Speed [rpm]	1500
Nominal power [kW]	2590
Nominal power [bhp]	3473
Frequency [Hz]	50

Exhaust Regulations

Fuel-consumption optimized;

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
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
	Lube oil priming pump: cut-in interval			
26	pump cut-in every minutes	R	N	min
27	Lube oil priming pump: cut-in duration	R	N	min
	Breakaway torque (without driven machinery)			
28	coolant temperature +5°C	R	2600	Nm
	Breakaway torque (without driven machinery)			
30	coolant temperature +40°C	R	2200	Nm
	Cranking torque at firing speed (without driven machinery)			
29	coolant temperature +5°C	R	1400	Nm
	Cranking torque at firing speed (without driven machinery)			
31	coolant temperature +40°C	R	1100	Nm
	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
	Run-up period to rated speed			
93	(with driven machinery)	R	N	s
	(* at general conditions)			-
37	High idling speed, max. (static)	L	1700	rpm
38	Limit speed for overspeed alarm / emergency shutdown	L	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
44	Engine coolant temperature before starting full-load operation, recommended	_	60	
44	min.	R	60	°C
3515	Minimum continuous load (operation > 10h)	R	30	kW/cyl
49	Extended low or no-load operation possible		x	
49	(consultation required)		^	-
50	Engine mass moment of inertia		21.16	1
30	(without flywheel)	R	21.10	kgm²
52	Standard flywheel mass moment of inertia	R	10.51	kgm²
F1	Engine mass moment of inertia	_	24.67	
51	(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	-

13. Starting (electric)

No.	Description	Index	Value	Unit
2309	Manufacturer		Delco	-

 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%)
^{an} Adequate verification not yet available (tolerance +/-5%)

- Product Data -



Name Application Group Dataset

20V4000G34F 3B Ref. 25°C/55°C

Speed [rpm]	1500
Nominal power [kW]	2590
Nominal power [bhp]	3473
Frequency [Hz]	50

Exhaust Regulations

Fuel-consumption optimized;

4101	Туре		50MT	_
2310	Number of starter		2	_
2312	Starter electrically redundant		-	
2312	Rated power per starter	R	9	kW
2314	Starter, rated voltage	R	24	VDC
2315	Rated short-circuit current per starter		1900	A
2315	Power consumption per starter	L	1500	~
2316	(at an engine speed of 100 rpm)	R	580	A
2317	Internal resistance of power supply + line resistance per starter	A	0.008	Ω
2317	Manufacturer	A	Bosch	Ω
4118	Туре		HEP	-
2319	Number of starter		2	-
2319	Starter electrically redundant		2	-
2320	Rated power per starter	R	- 11.3	- kW
2321	Starter, rated voltage	R	24	VDC
2322	Rated short-circuit current per starter	ĸ	2190	
2323	Power consumption per starter	L	2130	Α
2324		R	750	А
2225	(at an engine speed of 100 rpm)		0.0047	
2325	Internal resistance of power supply + line resistance per starter	A	0.0047	Ω
2326	Manufacturer		Prestolite	-
4119	Type		S-152	-
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
2332	Power consumption per starter	R	1400	А
	(at an engine speed of 100 rpm)			
2333	Internal resistance of power supply + line resistance per starter	A	0.0045	Ω
2334	Manufacturer		Prestolite	-
4120	Туре		S-152	-
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	R	1400	А
	(at an engine speed of 100 rpm)	i v		~
2341	Internal resistance of power supply + line resistance per starter	А	0.0045	Ω
4104	Manufacturer		Prestolite	-
4105	Туре		M128R	-
4106	Number of starter		2	-
4107	Starter electrically redundant		-	-
4108	Rated power per starter	R	9.4	kW
4109	Starter, rated voltage	R	24	VDC
4110	Rated short-circuit current per starter	L	2000	A
4110 4111		L	2000	A

 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
 Image: Applicable

 The module is not valid for this product type
 Image: Applicable

 The module and the module is not valid for this product type
 Image: Applicable

 Notation to mamed
 The value has not yet been named or will not be named

Adequate verification not yet available (tolerance +/-10%)
^{an} Adequate verification not yet available (tolerance +/-5%)

- Product Data -



Name Application Group Dataset

20V4000G34F 3B Ref. 25°C/55°C

Speed [rpm]	1500
Nominal power [kW]	2590
Nominal power [bhp]	3473
Frequency [Hz]	50

Exhaust Regulations

Fuel-consumption optimized;

	-			
4112	Power consumption per starter	R		٨
4112	(at an engine speed of 100 rpm, SAE0)	n		A
4113	Power consumption per starter			•
4115	(at an engine speed of 100 rpm, SAE1)	R	-	A
4114	Internal resistance of power supply + line resistance per starter	А	0.008	Ω
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	
2545	(at rated starting-attempt duration), min.	L	20	3
2345	Maximum acceptable starting-attempt duration	L	15	S
2344	Interval between starts		60	
2544	(when starting-attempt duration > rated starting-attempt duration)	R	00	S
2246	Starting attempts within 30 minutes		6	
2346	(at +20°C ambient temperature with battery full), max.	L	0	-
3565	Disengagement of starter pinion at engine Speed		400	
3000	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)

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	P		liter
25	(max. 40 bar) (engine preheated)	R	-	liter
26	Starting air tank for 3 start attempts			124
26	(max. 30 bar) (engine preheated)	R	-	liter
27	Starting air tank for 6 start attempts	_		
27	(max. 40 bar) (engine preheated)	R	-	liter
28	Starting air tank for 6 start attempts	_	-	
28	(max. 30 bar) (engine preheated)	R		liter
20	Starting air tank for 10 start attempts	_		
29	(max. 40 bar) (engine preheated)	R	-	liter
20	Starting air tank for 10 start attempts	_		
30	(max. 30 bar) (engine preheated)	R	-	liter
	Starting air tank for 3 start attempts	_		
31	(max. 40 bar) (engine not preheated)	R	-	liter
22	Starting air tank for 3 start attempts	_		
32	(max. 30 bar) (engine not preheated)	R	-	liter
	Starting air tank for 6 start attempts	_		
33	(max. 40 bar) (engine not preheated)	R	-	liter

 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

 X
 Applicable

 The module is valid for this product type
 Image: Applicable

 The module is not valid for this product type
 Image: Applicable

 The module and the module is not valid for this product type
 Image: Applicable

 Notation and the module is not valid for this product type
 Image: Applicable

 Notation and the module is not valid for this product type
 Image: Applicable

 Notation and the module is not valid for this product type
 Image: Applicable

Adequate verification not yet available (tolerance +/-10%)
^{an} Adequate verification not yet available (tolerance +/-5%)

- Product Data -



Name	20V4000G34F	Speed [rpm]	1500
Application Group	3B	Nominal power [kW]	2590
Dataset	Ref. 25°C/55°C	Nominal power [bhp]	3473
		Frequency [Hz]	50

Exhaust Regulations Fue

Fuel-consumption optimized;

34	Starting air tank for 6 start attempts (max. 30 bar) (engine not preheated)	R	-	liter
35	Starting air tank for 10 start attempts (max. 40 bar) (engine not preheated)	R	-	liter
36	Starting air tank for 10 start attempts (max. 30 bar) (engine not preheated)	R	-	liter

15. Starting (pneumatic/oil pressure starter)

35 Pneumatic starter: make Gali - - 36 Pneumatic starter: make TDI X - 36 Pneumatic starter: make TDI X - 36 Starting air pressure before starter motor, max. R 9 bar 6 Starting air pressure before starter motor, max. L 8 bar 7 Starting air pressure before starter motor, max. L 9 bar 8 Starting air pressure before starter motor, max. L 9 bar 18 Start attempt duration (engine preheated) R 3 s 20 Start attempt duration, max. L - s 114 (engine preheated) R S s 20 Start attempt duration, max. L - s 114 (engine not preheated) R 1.4 m³n 115 (engine not preheated) R 1.6 m³n 116 Air consumption/start attempts R - iiter 123 Starting air tank for 3 start attempts R - iiter <th></th> <th></th> <th></th> <th></th> <th></th>					
36 Pneumatic starter: make TDI X - 5 Starting air pressure before starter motor, max. R 8 bar 7 Starting air pressure before starter motor, max. L 8 bar 8 Starting air pressure before starter motor, max. L 9 bar 8 Starting air pressure before starter motor, max. L 9 bar 8 Start attempt duration (engine preheated) R 3 s 9 Start attempt duration (engine preheated) R 5 s 20 Start attempt duration (engine not preheated) R 5 s 214 (engine preheated) R 1.4 m³n 214 (engine preheated) R 1.4 m³n 215 Engine without generator R 1.6 m³n 216 for airstarter (per second R 0.7 m³n 213 Starting air tank for 3 start attempts R - ilter 23 Starting air tank for 3 start attempts R - ilter 24 Max - A0 bar) (engine preheated) R - ilter 25 Starting air tank for 5 start attempts R - ilter	No.		Index	Value	Unit
5 Starting air pressure before starter motor, max. R 8 bar 6 Starting air pressure before starter motor, max. R 9 bar 7 Starting air pressure before starter motor, max. L 8 bar 8 Starting air pressure before starter motor, max. L 9 bar 18 Start attempt duration (engine preheated) R 3 s 20 Start attempt duration (engine not preheated) R 5 s 20 Start attempt duration, max. L - s 214 (engine preheated) R 1.4 m³n 215 (engine not preheated) R 1.6 m³n 216 Air consumption/start attempt R 1.6 m³n 217 (engine not preheated) R 1.6 m³n 218 Starting air tank for 3 start attempts R - ilter 229 Starting air tank for 3 start attempts R - ilter 226 Starting air tank for 10 start attempts R - ilter 227 Starting air tank for 6 start attempts R - ilter 238 Starting air tank for 6 start attempts R -				-	-
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 3 s 20 Start attempt duration, max. L - s 114 Engine without generator kir consumption/start attempt s s 114 Engine without generator R 1.4 m ³ n 115 Engine without generator R 1.6 m ³ n 20 Starting air tank for 3 start attempt R 1.6 m ⁴ n 23 Starting air tank for 3 start attempts R - ilter 24 Starting air tank for 3 start attempts R - ilter 25 Starting air tank for 6 start attempts R - ilter 26 Starting air tank for 6 start attempts R - ilter 27 Starting air tank for 10 start attempts R - ilter 28 Starting air tank for 10 start a					-
7 Starting air pressure before starter motor, max. 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 preheated) R 5 s 20 Start attempt duration, max. L - s 114 (engine preheated) R 1.4 - s 114 (engine preheated) R 1.4 m ^a n Control with engine controller R 1.4 m ^a n 115 (engine not preheated) R 1.6 m ^a n 116 Air consumption with external control R 0.7 m ^a n 23 Starting air tank for 3 start attempts (max. 40 bar) (engine preheated) R - ilter 24 Starting air tank for 6 start attempts (max. 40 bar) (engine preheated) R - ilter 25 Starting air tank for 10 start attempts (max. 40 bar) (engine preheated) R - ilter 25 Starting air tank for 6 start attempts (max. 40 bar) (engine preheated) R - ilter 26 Starting air tank for 10 start attempts (max. 40 bar) (engine preheated) R <td>-</td> <td></td> <td></td> <td></td> <td>bar</td>	-				bar
8 Starting air pressure before starter motor, max. L 9 bar 18 Start attempt duration (engine preheated) R 3 s s 19 Start attempt duration (engine not preheated) R 5 s s 20 Start attempt duration, max. L - s s 114 Engine without generator R 1.4 m³n 114 Engine without generator R 1.4 m³n 115 Engine without generator R 1.6 m³n 116 Air consumption/start attempt R 1.6 m³n 116 Air consumption with external control for air-starter (per second R 0.7 m³n 123 Starting air tank for 3 start attempts (max. 40 bar) (engine preheated) R - ilter 24 Starting air tank for 3 start attempts (max. 30 bar) (engine preheated) R - ilter 25 Starting air tank for 6 start attempts (max. 40 bar) (engine preheated) R - ilter 26 Starting air tank for 10 start attempts (max. 40 bar) (engine preheated) R -			R		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 (max. 40 bar) (engine preheated) R 0.7 m³n 23 Starting air tank for 3 start attempts (max. 30 bar) (engine preheated) R - liter 24 Starting air tank for 5 start attempts (max. 40 bar) (engine preheated) R - liter 25 Starting air tank for 5 start attempts (max. 30 bar) (engine preheated) R - liter 27 Starting air tank for 10 start attempts (max. 30 bar) (engine preheated) R - liter 28 Starting air tank for 10 start attempts (max. 40 bar) (engine preheated) R - liter 29 Starting air tank for 3 start attempt	-		L		bar
19 Start attempt duration (engine not preheated) R 5 s 20 Start attempt duration, max. L - s 114 Gengine preheated) R 1.4 m³n 114 Gengine preheated) R 1.4 m³n 115 Gengine not preheated) R 1.4 m³n 115 Gengine not preheated) R 1.6 m³n 116 Air consumption/start attempt R 1.6 m³n 115 Gengine not preheated) R 0.7 m³n 116 Air consumption with external control R 0.7 m³n 123 Starting air tank for 3 start attempts R - liter 124 Starting air tank for 3 start attempts R - liter 125 Starting air tank for 6 start attempts R - liter 125 Starting air tank for 10 start attempts R - liter 126 (max. 40 bar) (engine preheated) R - liter 127 Starting air tank for 10 start attempts <td< td=""><td></td><td></td><td>L</td><td></td><td>bar</td></td<>			L		bar
20 Start attempt duration, max. L - s Air consumption/start attempt (engine preheated) Engine without generator Control with engine controller R 1.4 m³n 114 Air consumption/start attempt (engine not preheated) Engine without generator Control with engine controller R 1.4 m³n 115 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 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. 40 bar) (engine preheated) R - liter 26 Starting air tank for 10 start attempts (max. 40 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 3 start attempts (max. 40 bar) (engine preheated)					S
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114Engine without generator Control with engine controllerR1.4manAir consumption/start attempt (engine not preheated) Engine without generator Control with engine controllerR1.6man115Air consumption with external control for air-starter (per second (max. 40 bar) (engine preheated)R0.7man23Starting air tank for 3 start attempts (max. 40 bar) (engine preheated)R0.7min24Starting air tank for 3 start attempts (max. 40 bar) (engine preheated)R-liter25Starting air tank for 6 start attempts (max. 40 bar) (engine preheated)R-liter26Starting air tank for 6 start attempts (max. 40 bar) (engine preheated)R-liter27Starting air tank for 10 start attempts (max. 30 bar) (engine preheated)R-liter28Starting air tank for 10 start attempts (max. 30 bar) (engine preheated)R-liter29Starting air tank for 3 start attempts (max. 40 bar) (engine preheated)RNliter30Starting air tank for 3 start attempts (max. 40 bar) (engine preheated)R-liter		Air consumption/start attempt			
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115(engine not preheated) Engine without generator Control with engine controllerR1.6m³n116Air consumption with external control for air-starter (per secondR0.7m³n23Starting air tank for 3 start attempts (max. 40 bar) (engine preheated)R-liter24Starting air tank for 3 start attempts (max. 30 bar) (engine preheated)R-liter25Starting air tank for 6 start attempts (max. 40 bar) (engine preheated)R-liter26Starting air tank for 6 start attempts (max. 30 bar) (engine preheated)R-liter26Starting air tank for 6 start attempts (max. 30 bar) (engine preheated)R-liter27Starting air tank for 10 start attempts (max. 40 bar) (engine preheated)R-liter28Starting air tank for 10 start attempts (max. 30 bar) (engine preheated)R-liter29Starting air tank for 3 start attempts (max. 40 bar) (engine not preheated)RNliter30Starting air tank for 3 start attempts (max. 40 bar) (engine not preheated)RNliter		Control with engine controller			
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28 Starting air tank for 10 start attempts (max. 30 bar) (engine preheated) R - liter 29 Starting air tank for 3 start attempts (max. 40 bar) (engine not preheated) R N liter 30 Starting air tank for 3 start attempts (max. 30 bar) (engine not preheated) R N liter	27		R	-	liter
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29 Starting air tank for 3 start attempts (max. 40 bar) (engine not preheated) R N liter 30 Starting air tank for 3 start attempts (max. 30 bar) (engine not preheated) R N liter	28		R	-	liter
29 (max. 40 bar) (engine not preheated) R N liter 30 Starting air tank for 3 start attempts (max. 30 bar) (engine not preheated) R N liter			1_		
30 Starting air tank for 3 start attempts (max. 30 bar) (engine not preheated) R N liter	29	5	R	N	liter
(max. 30 bar) (engine not preheated)			_		
	30		R	N	liter
Starting air tank for 6 start attempts		Starting air tank for 6 start attempts			
31 (max. 40 bar) (engine not preheated) R N liter	31		R	N	liter

 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
 Image: Applicable

 The module is not valid for this product type
 Image: Applicable

 The module and the module is not valid for this product type
 Image: Applicable

 Notation to mamed
 The value has not yet been named or will not be named

Adequate verification not yet available (tolerance +/-10%)
^{an} Adequate verification not yet available (tolerance +/-5%)

- Product Data -



Name	20V4000G34F	Speed [rpm]	1500
Application Group	3B	Nominal power [kW]	2590
Dataset	Ref. 25°C/55°C	Nominal power [bhp]	3473
		Frequency [Hz]	50

Exhaust Regulations Fuel-consumption optimized;

37	Starting air tank for 6 start attempts (max. 30 bar) (engine not preheated)	R	Ν	liter
33	Starting air tank for 10 start attempts (max. 40 bar) (engine not preheated)	R	Ν	liter
34	Starting air tank for 10 start attempts (max. 30 bar) (engine not preheated)	R	Ν	liter

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

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

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	205 *	liter
10	Intercooler coolant capacity	R	50	liter
11	On-engine fuel capacity	R	9	liter
	Engine oil capacity, initial filling			
14	(standard oil system)	R	390 *	liter
	(Option: max. operating inclinations)			
	Oil change quantity, max.			
20	(standard oil system)	R	340 *	liter
	(Option: max. operating inclinations)			

 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
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Adequate verification not yet available (tolerance +/-10%)
^{an} Adequate verification not yet available (tolerance +/-5%)

- Product Data -



Name	20V4000G34F	Speed [rpm]	1500
Application Group	3B	Nominal power [kW]	2590
Dataset	Ref. 25°C/55°C	Nominal power [bhp]	3473
		Frequency [Hz]	50

Exhaust Regulations Fuel-consumption optimized;

28	Oil pan capacity, dipstick mark min. (standard oil system) (Option: max. operating inclinations)	L	268	liter
	Oil pan capacity, dipstick mark max.			
29	(standard oil system)	L	315	liter
	(Option: max. operating inclinations)			

19. Masses / dimensions

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

21. Exhaust emissions

No.	Description	Index	Value	Unit
1972	Emissions data sheet:		×	
1972	Fuel-consumption optimized		^	-

22. Acoustics

No.	Description	Index	Value	Unit
	Exhaust noise, unsilenced - CP			
101	(free-field sound-pressure level Lp, 1m distance,	R	114	dB(A)
	ISO 6798, +3dB(A) tolerance)			
201	Exhaust noise, unsilenced - CP	R	127	dB(A)
201	(sound power level LW, ISO 6798, +3dB(A) tolerance)	n	127	UB(A)
	Exhaust noise, unsilenced - FSP			
102	(free-field sound-pressure level Lp, 1m distance,	R	-	dB(A)
	ISO 6798, +3dB(A) tolerance)			
202	Exhaust noise, unsilenced - FSP	R		dB(A)
202	(sound power level LW, ISO 6798, +3dB(A) tolerance)	ĸ	-	UB(A)
	Exhaust noise, unsilenced - CP			
103	(free-field sound-pressure level Lp, 1m distance,	D	735825e	
105	ISO 6798)	R	7556256	-
	Spectrum No.			
	Exhaust noise, unsilenced - CP			
203	(sound power level LW, ISO 6798)	R	N	-
	Spectrum No.			
	Exhaust noise, unsilenced - FSP			
104	(free-field sound-pressure level Lp, 1m distance,	R	-	-
	ISO 6798) Spectrum No.			
	Exhaust noise, unsilenced - FSP			
204	(sound power level LW, ISO 6798)	R	-	-
	Spectrum No.			

 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
 Image: Applicable

 The module is not valid for this product type
 Image: Applicable

 The module and the module is not valid for this product type
 Image: Applicable

 Notation and the module is not valid for this product type
 Image: Applicable

 Notation and the module is not valid for this product type
 Image: Applicable

 Notation and the module is not valid for this product type
 Image: Applicable

Adequate verification not yet available (tolerance +/-10%)
^{an} Adequate verification not yet available (tolerance +/-5%)

- Product Data -



Name	20V4000G34F	Speed [rpm]	1500
Application Group	3B	Nominal power [kW]	2590
Dataset	Ref. 25°C/55°C	Nominal power [bhp]	3473
		Frequency [Hz]	50

Exhaust Regulations Fuel-consumption optimized;

Engine surface noise with attenuated intake noise (filter) - CP 109 R 109 dB(A) (free-field sound-pressure level Lp, 1m distance, ISO 6798, +2dB(A) tolerance) Engine surface noise with attenuated 209 intake noise (filter) - CP R 128 dB(A) (sound power level LW, ISO 6798, +2dB(A) tolerance) Engine surface noise with attenuated intake noise (filter) - FSP 110 R dB(A) (free-field sound-pressure level Lp, 1m distance, ISO 6798, +2dB(A) tolerance) Engine surface noise with attenuated 210 intake noise (filter) - FSP R dB(A) (sound power level LW, ISO 6798, +2dB(A) tolerance) Engine surface noise with attenuated intake noise (filter) - CP 738 668e 111 R (free-field sound-pressure level Lp, 1m distance, ISO 6798) Spectrum No. Engine surface noise with attenuated intake noise (filter) - CP 211 R N (sound power level LW, ISO 6798) Spectrum No. Engine surface noise with attenuated intake noise (filter) - FSP 112 R (free-field sound-pressure level Lp, 1m distance, ISO 6798) Spectrum No. Engine surface noise with attenuated intake noise (filter) - FSP 212 R (sound power level LW, ISO 6798) Spectrum No. Engine surface noise, without intake noise - FSP 132 (free-field sound-pressure level Lp, 1m distance, R dB(A) ISO 6798, +2dB(A) tolerance) Engine surface noise, without intake noise - FSP 232 R dB(A) (sound power level LW, ISO 6798, +2dB(A) tolerance) Engine surface noise, without intake noise - FSP 134 R (free-field sound-pressure level Lp, 1m distance, ISO 6798) Spectrum No. Engine surface noise, without intake noise - FSP 234 (sound power level LW, ISO 6798) R Spectrum No. Intake noise, unsilenced - FSP 118 (free-field sound-pressure level Lp, 1m distance, R dB(A) ISO 6798) Intake noise, unsilenced - FSP 218 R dB(A) (sound power level LW, ISO 6798)

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

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
 Non-applicable

 The module is not valid for this product type
 Non-applicable

 The module is not valid for this product type
 Non-applicable

 The module is not valid for this product type
 Non-applicable

 The module is not named
 Non-applicable

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

- Product Data -



Name	20V4000G34F	Speed [rpm]	1500
Application Group	3B	Nominal power [kW]	2590
Dataset	Ref. 25°C/55°C	Nominal power [bhp]	3473
		Frequency [Hz]	50

Exhaust Regulations Fuel-co

Fuel-consumption optimized;

	Intake noise, unsilenced - FSP (free-field sound-pressure level Lp, 1m distance,			
120	ISO 6798)	R	-	-
	Spectrum No.			
	Intake noise, unsilenced - FSP			
220	(sound power level LW, ISO 6798)	R	-	-
	Spectrum No.			
	Structure borne noise at engine mounting brackets			
125	in vertical direction above resilient engine mounts - CP	R	735847e	-
	Spectrum No.			
	Structure borne noise at engine mounting brackets			
126	in vertical direction above resilient engine mounts - FSP	R	-	-
	Spectrum No.			
	Structure born noise, vertically below the resilient engine			
128	mounts - FSP	R	-	-
	Spectrum No.			

 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

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^{an} Adequate verification not yet available (tolerance +/-5%)