

1500

Name 12V4000G14F Speed [rpm] **Application Group** 3B

Nominal power [kW] 1420 Dataset Ref. 25°C/55°C Nominal power [bhp] 1904 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 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

	TO THE POLICE AND THE				
No.	Description	Index	Value	Unit	
1	Engine rated speed	Α	1500	rpm	
2	Reduction gear - Output speed	Α	-	rpm	
3	Mean piston speed		10.5	m/s	
4	Continuous power ISO 3046 (10% overload capability) (design power DIN 6280, ISO 8528)	А	1420	kW	
5	Fuel stop power ISO 3046	Α	1562	kW	
8	Mean effective pressure (MEP) (Continuous power ISO 3046)		19.9	bar	
9	Mean effective pressure (MEP) (Fuel stop power ISO 3046)		21.8	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	
	required for maximum power		X	-
1	Intake air depression (new filter)	A	15	mbar
2	Intake air depression, max.	L	50	mbar
3	Exhaust back pressure	А	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.			0.0
9	(w/o power reduction)	L	55	'
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 <a> Actual value must be less than specified value

The module is valid for this product type
In Mon-applicable
The module is not valid for this product type
IN 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%)



Name 12V4000G14F

Application Group 3B

Dataset Ref. 25°C/55°C Speed [rpm] 1500 1420 Nominal power [kW] Nominal power [bhp] 1904 Frequency [Hz] 50

Exhaust Regulations Fuel-consumption optimized;

3. Consumption

No.	Description	Index	Value	Unit
17	Specific fuel consumption (be) - 100 % CP	D	189	g/kWh
17	(+ 5 %; EN 590; 42.8 MJ/kg)	R	169	g/kwn
18	Specific fuel consumption (be) - 75 % CP	D	195	-/LAA/b
10	(+ 5 %; EN 590; 42.8 MJ/kg)	R	193	g/kWh
19	Specific fuel consumption (be) - 50 % CP	R	203	g/kWh
19	(+ 5 %; EN 590; 42.8 MJ/kg)	ĸ	203	g/KVVII
20	Specific fuel consumption (be) - 25 % CP	R	235	g/kWh
20	(+ 5 %; EN 590; 42.8 MJ/kg)	n	233	g/KVVII
21	Specific fuel consumption (be) - FSP	R	190	g/kWh
21	(+ 5 %; EN 590; 42.8 MJ/kg)	ĸ	190	g/KVVII
56	Specific fuel consumption (be) - 100 % FSP	R		g/kWh
	(+ 5 %; EN 590; 42.8 MJ/kg)	n		g/KVVII
57	Specific fuel consumption (be) - 75 % FSP	R	_	g/kWh
57	(+ 5 %; EN 590; 42.8 MJ/kg)	n		g/KVVII
58	Specific fuel consumption (be) - 50 % FSP	R		g/kWh
50	(+ 5 %; EN 590; 42.8 MJ/kg)	n		g/ KVVII
59	Specific fuel consumption (be) - 25 % FSP	R		g/kWh
	(+ 5 %; EN 590; 42.8 MJ/kg)	IN.		g/ KVVII
73	No-load fuel consumption	R	21.0	kg/h
	Lube oil consumption after 100 h of operation			
	(B = fuel consumption per hour)		0.3	
92	Guideline value does not apply for the design	R		% 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.		1.0	% of B
02	(B = fuel consumption per hour)	L	1.0	70 UI B

4. Model-related data (basic design)

Description	Index	Value	Unit
Naturally aspirated engine		-	-
Engine with exhaust turbocharger (ETC)		-	-
Engine with exhaust turbocharger (ETC) and intercooler		X	-
Exhaust piping, non-cooled		X	-
Exhaust piping, liquid-cooled		-	-
Working method: four-cycle, diesel, single-acting		Х	-
Combustion method: direct injection		X	-
Cooling system: conditioned water		X	-
Direction of rotation: c.c.w. (facing driving end)		X	-
Number of cylinders		12	-
Cylinder configuration: V angle		90	degrees (°)
Cylinder configuration: in-line vertical		-	-
Bore		170	mm
Stroke		210	mm
	Naturally aspirated engine Engine with exhaust turbocharger (ETC) Engine with exhaust turbocharger (ETC) and intercooler Exhaust piping, non-cooled Exhaust piping, liquid-cooled Working method: four-cycle, diesel, single-acting Combustion method: direct injection Cooling system: conditioned water Direction of rotation: c.c.w. (facing driving end) Number of cylinders Cylinder configuration: V angle Cylinder configuration: in-line vertical Bore	Naturally aspirated engine Engine with exhaust turbocharger (ETC) Engine with exhaust turbocharger (ETC) and intercooler Exhaust piping, non-cooled Exhaust piping, liquid-cooled Working method: four-cycle, diesel, single-acting Combustion method: direct injection Cooling system: conditioned water Direction of rotation: c.c.w. (facing driving end) Number of cylinders Cylinder configuration: V angle Cylinder configuration: in-line vertical Bore	Naturally aspirated engine Engine with exhaust turbocharger (ETC) Engine with exhaust turbocharger (ETC) and intercooler Exhaust piping, non-cooled Exhaust piping, liquid-cooled Working method: four-cycle, diesel, single-acting Combustion method: direct injection Cooling system: conditioned water Direction of rotation: c.c.w. (facing driving end) Number of cylinders Cylinder configuration: V angle Cylinder configuration: in-line vertical Bore

> Actual value must be greater than specified value <a> Actual value must be less than specified value





Name 12V4000G14F

Application Group 3B

Dataset Ref. 25°C/55°C Speed [rpm] 1500 1420 Nominal power [kW] Nominal power [bhp] 1904 Frequency [Hz] 50

Exhaust Regulations Fuel-consumption optimized;

-			ı	
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		X	-
42	Piston design: composite piston		-	-
49	Piston design: solid-skirt piston		X	-
21	Number of piston compression rings		2	-
22	Number of piston oil control rings		1	-
24	Number of inlet valves, per cylinder		2	-
25	Number of exhaust valves, per cylinder		2	-
15	Number of turbochargers		4	-
16	Number of L.P. turbochargers		4	-
17	Number of H.P. turbochargers		-	-
18	Number of intercoolers		1	-
19	Number of L.P. intercoolers		1	-
20	Number of H.P. intercoolers		-	-
28	Standard flywheel housing flange (engine main PTO)		00	SAE
50	Static bending moment at standard		15	I.N.
50	flywheel housing flange, max.	L	15	kNm
51	Dynamic bending moment at standard		75	I.N.
21	flywheel housing flange, max.	L	/5	kNm
29	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	2.6	bar abs
27	Charge-air pressure before cylinder - FSP	R	2.9	bar abs
9	Combustion air volume flow - CP	R	1.6	m³/s
10	Combustion air volume flow - FSP	R	1.8	m³/s
11	Exhaust volume flow (at exhaust temperature) - CP	R	4.0	m³/s
12	Exhaust volume flow (at exhaust temperature) - FSP	R	4.4	m³/s
13	Exhaust temperature before turbocharger - CP	R	655	°C
14	Exhaust temperature before turbocharger - FSP	R	675	°C
15	Exhaust temperature after turbocharger - CP	R	455	°C
16	Exhaust temperature after turbocharger - FSP	R	475	°C
17	Exhaust temperature after engine - CP	R	455	°C
18	Exhaust temperature after engine - FSP	R	475	°C
58	Exhaust temperature after engine (turbocharger), max.	L	-	°C

6. Heat dissipation

No.	Description	Index	Value	Unit
10	Heat dissipated by engine coolant - FSP	В		kW
10	with oil heat	K	-	KVV

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 <a> Actual value must be less than specified value

The module is valid for this product type
In Mon-applicable
The module is not valid for this product type
IN Value not named
The value has not yet been named or will not be named

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

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



Name 12V4000G14F

Application Group 3B

Dataset Ref. 25°C/55°C Speed [rpm] 1500 1420 Nominal power [kW] Nominal power [bhp] 1904 Frequency [Hz] 50

Exhaust Regulations Fuel-consumption optimized;

12	Heat dissipation by engine coolant - FSP	R	-	kW
	with oil heat, with charge-air heat			
62	Heat dissipated by engine coolant - FSP	R	-	kW
02	(high-temperature circuit)	1		KVV
63	Heat dissipated by engine coolant - FSP	R	_	kW
03	(low-temperature circuit)	N.		KVV
14	Heat dissipated by engine coolant - FSP	R	_	kW
14	without oil heat, with charge-air heat	ĸ		KVV
15	Heat dissipated by engine coolant - CP	R	540	kW
13	with oil heat, without charge-air heat	K	340	KVV
16	Heat dissipated by engine coolant - FSP	R	580	kW
10	with oil heat, without charge-air heat	ĸ	380	KVV
18	at dissipated by engine coolant - FSP	D	-	kW
10	without oil heat, without charge-air heat	N.		KVV
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	200	kW
27	Charge-air heat dissipation - FSP	R	260	kW
39	Heat dissipated by exhaust gas - FSP	R	-	kW
31	Heat dissipated by return fuel flow - CP	R	5	kW
32	Heat dissipated by return fuel flow - FSP	R	-	kW
33	Radiation and convection heat, engine - CP	R	75	kW
34	Radiation and convection heat, engine - FSP	R	75	kW
36	Radiation and convection heat, genset - FSP	D		kW
30	(engine + generator + 10m insulated exhaust pipework)	R		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	۸	100	°C
17	(at engine outlet to cooling equipment)	A	100	C
57	Coolant temperature differential after/before engine, from	R	7	K
58	Coolant temperature differential after/before engine, to	R	9	K
23	Coolant temperature differential after/before engine	L	11	K
20	Coolant temperature after engine, limit 1	L	102	°C
21	Coolant temperature after engine, limit 2	L	104	°C
25	Coolant antifreeze content, max.	L	50	%
30	Cooling equipment: coolant flow rate	Α	56	m³/h
31	Coolant pump: pressure differential	R	2.5	bar
35	Coolant pump: inlet pressure, min.	L	0.5	bar
36	Coolant pump: inlet pressure, max.	L	2.5	bar
39	Engine: coolant pressure differential	R	2.0	har
39	with thermostat	l K	2.0	bar
41	Pressure loss in off-engine cooling system, max.	L	0.7	bar
72	Pressure loss in off-engine cooling system, min.	L	0.55	bar

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



Name 12V4000G14F

Application Group 3B

Dataset Ref. 25°C/55°C Speed [rpm] 1500 1420 Nominal power [kW] Nominal power [bhp] 1904 Frequency [Hz] 50

Exhaust Regulations Fuel-consumption optimized;

43	Pressure loss in off-engine cooling system, max.		0.7	bar
43	without thermostat	L	0.7	Dai
70	Pressure loss in off-engine cooling system, min.		0.55	bar
70	without thermostat	L L	0.55	Dar
45	Flow resistance (X) coefficient	R	0.80	mbar/(m³/h)²
45	engine w/ thermostat, w/o cooling equipment	ĸ	0.80	mbar/(m²/n)²
47	Breather valve (expansion tank)	R	1.0	bar
47	opening pressure (excess pressure)	K	1.0	Dai
54	Cooling equipment: height above engine, max.	L	15	m
53	Cooling equipment: operating pressure	А	2.5	bar
73	Coolant level in expansion tank, below min.			
/3	alarm	L	-	-
74	Coolant level in expansion tank, below min.		l _x	
/4	shutdown	L	^	-
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)	ь	-0.1	la a s
40	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	р	62	°C
55	(at engine outlet to cooling equipment)	R	02	
0	Coolant temperature before intercooler		55	°C
9	(at engine inlet from cooling equipment)	A	33	°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		6	V
J 4	intercooler, min.	L	U	K
55	Coolant temperature differential after/before	1	9	V
3 3	intercooler, max.	L	9	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	К
70	charge-air coolant before intercooler	A		K
75	Temperature differential between intake air and	1	32	V
/3	charge-air coolant before intercooler, max.	Ŀ		K
45	Charge-air temperature after intercooler, max.			°C
43	for compliance with "TA-Luft" at CP	L	-	C
56	Coolant pump: flow rate	А	30	m³/h
20	Cooling equipment: coolant flow rate	А	30	m³/h
21	Intercooler: coolant flow rate	R	30	m³/h
22	Coolant pump: pressure differential	R	1.4	bar
24	Coolant pump: inlet pressure, min.	L	0.5	bar

> 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%)



Name 12V4000G14F

Application Group 3B

Dataset Ref. 25°C/55°C Speed [rpm] 1500 1420 Nominal power [kW] Nominal power [bhp] 1904 Frequency [Hz] 50

Exhaust Regulations Fuel-consumption optimized;

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.		0.7	han
31	without thermostat	L	0.7	bar
62	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
36	Breather valve (expansion tank)		1.0	h.a.r
30	opening pressure (excess pressure)	R		bar
37	Breather valve (expansion tank)	6	-0.1	la a u
5/	opening pressure (depression)	R		bar
42	Cooling equipment: operating pressure	А	2.5	bar
<i>c</i> 7	Coolant level in expansion tank, below min.			
67	alarm	L	-	-
68	Coolant level in expansion tank, below min.		v	
80	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

10. Lube oil system

	c on system			
No.	Description	Index	Value	Unit
1	Lube oil operating temp. before engine, from	R	88	°C
2	Lube oil operating temp. before engine, to	R	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	5.9	har
,	(measuring block)	ĸ	3.9	bar
8	Lube oil operating press. bef. engine, from	R	5.0	bar
9	Lube oil operating press. bef. engine, to	R	6.0	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	625	liter/min
19	Lube oil fine filter (main circuit):		1	
19	number of units		*	-
20	Lube oil fine filter (main circuit):		5	
20	number of elements per unit		3	-
21	Lube oil fine filter (main circuit):	D	0.014	m.m
21	particle retention	R	0.014	mm
22	Lube oil fine filter (main circuit):		1.5	l
32	pressure differential, max.	L	1.5	bar



Name 12V4000G14F

Application Group 3B

Dataset Ref. 25°C/55°C Speed [rpm] 1500 1420 Nominal power [kW] Nominal power [bhp] 1904 Frequency [Hz] 50

Exhaust Regulations Fuel-consumption optimized;

25	Lube oil fine filter (main circuit):	v	
33	make (standard): MANN & HUMMEL	^	-

11. Fuel system

	system			
No.	Description	Index	Value	Unit
1	Fuel pressure at engine fuel feed connection, min.	L	-0.1	har
1	(when engine is starting)	L	-0.1	bar
2	Fuel pressure at engine fuel feed connection, max.	L	1.5	bar
2	(when engine is starting)	L	1.5	Dai
57	Fuel pressure at engine fuel feed connection, min.	L	-0.3	bar
57	(when engine is running)		-0.5	Dai
65	Fuel pressure at engine fuel feed connection, max.	L	0.5	bar
05	(when engine is running)	L	0.5	Dai
4211	Max. fuel supply volume	А	12.1	liter/min
	Normal mode	^	12.1	inter/illin
4212	Max. fuel supply volume	А	22.6	liter/min
4212	Failure mode	A	22.0	iitei/iiiii
4	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
,	(high-pressure pump)	K	7.5	Dai
6	Fuel pressure before injection pump, min.	L	5.0	bar
	(high-pressure pump)	L	5.0	Dai
7	Fuel pressure before injection pump	L	1.5	bar
,	with engine not running, max. (high-pressure pump)		1.5	Dai
4213	Max. fuel return volume	А	3.8	liter/min
7213	Normal mode	^	3.0	inter/illin
4214	Max. fuel return volume	А	22.3	liter/min
4214	Failure mode	A		inter/illin
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	-	-
	Fuel prefilter: number of elements per unit	Α	-	-
	Fuel prefilter: particle retention	Α	-	mm
29	Fuel prefilter: make (standard): MANN & HUMMEL		-	-
	Fuel fine filter (main circuit): number of units	Α	1	-
	Fuel fine filter (main circuit): number of elements per unit	A	1	-
20	Fuel fine filter (main circuit): particle retention	Α	0.005	mm
21	Fuel fine filter (main circuit): pressure differential, max.	L	1.0	bar
32	Fuel fine filter (main circuit):		x	-
	make (standard): MANN & HUMMEL			

12. General operating data

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

<sup>The module is valid for this product type
In Mon-applicable
The module is not valid for this product type
IN Value not named
The value has not yet been named or will not be named</sup>



Name 12V4000G14F

Application Group 3B

Dataset Ref. 25°C/55°C Speed [rpm] 1500 1420 Nominal power [kW] Nominal power [bhp] 1904 Frequency [Hz] 50

Exhaust Regulations Fuel-consumption optimized;

-				1
1	Cold start capability: air temperature	R	10	°C
	(w/o starting aid, w/o preheating) - (case A)			Č
2	Additional condition (to case A):	R	10	°C
	engine coolant temperature			
3	Additional condition (to case A): lube oil temperature	R	10	°C
4	Additional condition (to case A): lube oil viscosity	R	15W40	SAE
9	Cold start capability: air temperature	R	0	°C
3	(w/o starting aid, w/ preheating) - (case C)	11	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	N.	IN .	111111
27	Lube oil priming pump: cut-in duration	R	N	min
28	Breakaway torque (without driven machinery)		1650	Nime
20	coolant temperature +5°C	R	1030	Nm
30	Breakaway torque (without driven machinery)		1300	Nine
30	coolant temperature +40°C	R	1300	Nm
29	Cranking torque at firing speed (without driven machinery)	R	900	Nime
29	coolant temperature +5°C	K	900	Nm
31	Cranking torque at firing speed (without driven machinery)		660	Nim
31	coolant temperature +40°C	R	660	Nm
06	Starting is blocked if the engine coolant temperature is		0	86
96	below		0	°C
02	Run-up period to rated speed	_	A.	
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)	1	1700	rpm
38	Limit speed for overspeed alarm / emergency shutdown	ī	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			, 0,.
49	(consultation required)		X	-
	Engine mass moment of inertia			_
50	(without flywheel)	R	9.7	kgm²
	(

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



Name 12V4000G14F

Application Group 3B

Dataset Ref. 25°C/55°C

 Speed [rpm]
 1500

 Nominal power [kW]
 1420

 Nominal power [bhp]
 1904

 Frequency [Hz]
 50

Exhaust Regulations Fuel-consumption optimized;

52	Standard flywheel mass moment of inertia	R	10.25	kgm²
F1	Engine mass moment of inertia	R	R 19.95	kgm²
51	(with standard flywheel)			
69	Speed droop (with electronic governor) adjustable, from	R	0	%
70	Speed droop (with electronic governor) adjustable, to	R	10	%
95	Number of starter ring-gear teeth on engine flywheel		182	-

13. Starting (electric)

Manufacturer Delco	13. Sta	rting (electric)			
Type	No.	Description	Index	Value	Unit
Number of starter	2309	Manufacturer		Delco	-
Starter electrically redundant R Starter electrically redundant Starter electrically redundant R Starter electrically redundant R Starter electrically redundant	4101	Туре		50MT	-
Rated power per starter Rated power per starter Rated Starter, rated voltage Rated short-circuit current per starter Lated short-circuit current per starter Lated short-circuit current per starter Lated short-circuit current per starter Rated short-circuit current per starter Lated short-circuit current per starter Lated short-circuit current per starter Rated short-circuit curren	2310	Number of starter		2	-
Starter, rated voltage	2312	Starter electrically redundant		-	-
Power consumption per starter L 1900 A	2313	Rated power per starter	R		kW
Power consumption per starter (at an engine speed of 100 rpm)	2314		R	24	VDC
A A A A A A A A A A	2315	Rated short-circuit current per starter	L	1900	Α
(at an engine speed of 100 rpm)	2216	Power consumption per starter	l _D	E00	Δ.
Bosch -	2310		l n	360	A
HEP	2317	Internal resistance of power supply + line resistance per starter	А	0.008	Ω
Number of starter 2	2318	Manufacturer		Bosch	-
Starter electrically redundant Company	4118	Туре		HEP	-
Rated power per starter Rated power per starter Rated power per starter Rated power per starter Rated short-circuit current per starter Lated power consumption per starter Lated power p	2319	Number of starter		2	-
Starter, rated voltage Rated short-circuit current per starter Luly 2190 Rated short-circuit current per starter (at an engine speed of 100 rpm) Rated should resistance of power supply + line resistance per starter Annual resistance of power supply + line resistance per starter Rated short-circuit current per starter An 0.0045 Rated short-circuit current per starter An 0.0045 Rated short-circuit current per starter An 0.0045 Rated short-circuit current per starter Rated short-circ	2320	Starter electrically redundant		-	-
Rated short-circuit current per starter Rated short-circuit current per starter (at an engine speed of 100 rpm) Rated short-circuit current per starter (at an engine speed of 100 rpm) Rated short-circuit current per starter Rated short-circui	2321	Rated power per starter	R	11.3	kW
Power consumption per starter (at an engine speed of 100 rpm) R 750 A A 0.0047 Ω Internal resistance of power supply + line resistance per starter A 0.0047 Ω Manufacturer Prestolite	2322	Starter, rated voltage	R	24	VDC
R 750 A	2323	Rated short-circuit current per starter	L	2190	А
(at an engine speed of 100 rpm)	2224	Power consumption per starter		750	Δ.
2326 Manufacturer Prestolite -	2324	(at an engine speed of 100 rpm)	l n	750	A
Type	2325	Internal resistance of power supply + line resistance per starter	А	0.0047	Ω
2327Number of starter1-2328Starter electrically redundant2329Rated power per starterR15kW2330Starter, rated voltageR24VDC2331Rated short-circuit current per starterL3000A2332Power consumption per starter (at an engine speed of 100 rpm)R1400A2333Internal resistance of power supply + line resistance per starterA0.0045Ω2334ManufacturerPrestolite-4120TypeS-152-2335Number of starter2-2336Starter electrically redundantX-2337Rated power per starterR15kW2338Starter, rated voltageR24VDC	2326	Manufacturer		Prestolite	-
Starter electrically redundant Rated power per starter Rated power per starter Rated short-circuit current per starter Rated short-circuit current per starter Later an engine speed of 100 rpm) Rated manufacturer An engine speed of 100 rpm) Rated short-circuit current per starter Rated short-circuit current per starter Rated short-circuit current per starter Later an engine speed of 100 rpm) Rated short-circuit current per starter Rated short-circuit current per starter Later an engine speed of 100 rpm) An engine speed of 100 rpm) An engine speed of 100 rpm) An engine speed of 100 rpm An engin	4119	Туре		S-152	-
2329Rated power per starterR15kW2330Starter, rated voltageR24VDC2331Rated short-circuit current per starterL3000A2332Power consumption per starter (at an engine speed of 100 rpm)R1400A2333Internal resistance of power supply + line resistance per starterA0.0045Ω2334ManufacturerPrestolite-4120TypeS-152-2335Number of starter2-2336Starter electrically redundantX-2337Rated power per starterR15kW2338Starter, rated voltageR24VDC	2327	Number of starter		1	-
2330Starter, rated voltageR24VDC2331Rated short-circuit current per starterL3000A2332Power consumption per starter (at an engine speed of 100 rpm)R1400A2333Internal resistance of power supply + line resistance per starterA0.0045Ω2334ManufacturerPrestolite-4120TypeS-152-2335Number of starter2-2336Starter electrically redundantX-2337Rated power per starterR15kW2338Starter, rated voltageR24VDC	2328	Starter electrically redundant		-	-
2331Rated short-circuit current per starterL3000A2332Power consumption per starter (at an engine speed of 100 rpm)R1400A2333Internal resistance of power supply + line resistance per starterA0.0045Ω2334ManufacturerPrestolite-4120TypeS-152-2335Number of starter2-2336Starter electrically redundantX-2337Rated power per starterR15kW2338Starter, rated voltageR24VDC	2329		R	15	kW
Power consumption per starter (at an engine speed of 100 rpm) 2332 Internal resistance of power supply + line resistance per starter A 0.0045 C 2334 Manufacturer A Prestolite - 4120 Type S-152 - 2335 Number of starter 2 2 - 2336 Starter electrically redundant X - 2337 Rated power per starter R 15 kW 2338 Starter, rated voltage R 24 VDC	2330	Starter, rated voltage	R	24	VDC
R 1400 A	2331	Rated short-circuit current per starter	L	3000	Α
(at an engine speed of 100 rpm) 0.0045 Ω 2333 Internal resistance of power supply + line resistance per starter A 0.0045 Ω 2334 Manufacturer Prestolite - 4120 Type S-152 - 2335 Number of starter 2 - 2336 Starter electrically redundant X - 2337 Rated power per starter R 15 kW 2338 Starter, rated voltage R 24 VDC	2222	Power consumption per starter	_	1400	Δ.
2334 Manufacturer Prestolite - 4120 Type S-152 - 2335 Number of starter 2 - 2336 Starter electrically redundant X - 2337 Rated power per starter R 15 kW 2338 Starter, rated voltage R 24 VDC	2332	(at an engine speed of 100 rpm)	K	1400	A
4120 Type S-152 - 2335 Number of starter 2 - 2336 Starter electrically redundant X - 2337 Rated power per starter R 15 kW 2338 Starter, rated voltage R 24 VDC	2333	Internal resistance of power supply + line resistance per starter	А	0.0045	Ω
2335 Number of starter 2 - 2336 Starter electrically redundant X - 2337 Rated power per starter R 15 kW 2338 Starter, rated voltage R 24 VDC	2334	Manufacturer		Prestolite	-
2336 Starter electrically redundant X - 2337 Rated power per starter R 15 kW 2338 Starter, rated voltage R 24 VDC	4120	Туре		S-152	-
2337 Rated power per starter R 15 kW 2338 Starter, rated voltage R 24 VDC	2335	Number of starter		2	-
2338 Starter, rated voltage R 24 VDC	2336	Starter electrically redundant		X	-
	2337		R	15	kW
2339 Rated short-circuit current per starter I 3000 A	2338	Starter, rated voltage	R	24	VDC
	2339	Rated short-circuit current per starter	L	3000	Α

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



Name 12V4000G14F

Application Group 3B

Dataset Ref. 25°C/55°C Speed [rpm] 1500 1420 Nominal power [kW] Nominal power [bhp] 1904 Frequency [Hz] 50

Exhaust Regulations Fuel-consumption optimized;

2240	Power consumption per starter		1 100	1.
2340	(at an engine speed of 100 rpm)	R	1400	Α
2341	Internal resistance of power supply + line resistance per starter	Α	0.0045	Ω
3374	Manufacturer		Prestolite	-
4121	Туре		MS7	-
3375	Number of starter		2	-
3376	Starter electrically redundant		-	-
3377	Rated power per starter	R	9	kW
3378	Starter, rated voltage	R	24	VDC
3379	Rated short-circuit current per starter	L	1900	А
2200	Power consumption per starter	_	500	
3380	(at an engine speed of 100 rpm)	R	530	Α
3383	Internal resistance of power supply + line resistance per starter	Α	0.005	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	Α
4444	Power consumption per starter		500	
4111	(at an engine speed of 100 rpm)	R	600	Α
4440	Power consumption per starter	_		
4112	(at an engine speed of 100 rpm, SAE0)	R	-	Α
	Power consumption per starter			
4113	(at an engine speed of 100 rpm, SAE1)	R	-	Α
4114	Internal resistance of power supply + line resistance per starter	Α	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
22.42	Interval between starts	1.	20	
2343	(at rated starting-attempt duration), min.	L	20	S
2345	Maximum acceptable starting-attempt duration	L	15	S
	Interval between starts	_		
2344	(when starting-attempt duration > rated starting-attempt duration)	R	60	S
	Starting attempts within 30 minutes	1.		
2346	(at +20°C ambient temperature with battery full), max.	L	6	-
	Disengagement of starter pinion at engine Speed			
3565	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
		- 1		

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

> 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
 The module is not valid for this product type
 Nolue 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%)



Name 12V4000G14F

Application Group 3B

Dataset Ref. 25°C/55°C Speed [rpm] 1500 1420 Nominal power [kW] Nominal power [bhp] 1904 Frequency [Hz] 50

Exhaust Regulations Fuel-consumption optimized;

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			lia
25	(max. 40 bar) (engine preheated)	R	-	liter
26	Starting air tank for 3 start attempts	Б		lia
20	(max. 30 bar) (engine preheated)	R	-	liter
27	Starting air tank for 6 start attempts	ь		lia
21	(max. 40 bar) (engine preheated)	R	-	liter
28	Starting air tank for 6 start attempts			liter
20	(max. 30 bar) (engine preheated)	R	-	
29	Starting air tank for 10 start attempts	ь		lia
29	(max. 40 bar) (engine preheated)	R	-	liter
30	Starting air tank for 10 start attempts	ь		lia
30	(max. 30 bar) (engine preheated)	R	-	liter
31	Starting air tank for 3 start attempts	ь	-	liter
31	(max. 40 bar) (engine not preheated)	R		
32	Starting air tank for 3 start attempts	D	-	liter
32	(max. 30 bar) (engine not preheated)	R		
33	Starting air tank for 6 start attempts	R		liter
33	(max. 40 bar) (engine not preheated)	ĸ	-	iiter
34	Starting air tank for 6 start attempts	ь		liter
34	(max. 30 bar) (engine not preheated)	R	-	liter
35	Starting air tank for 10 start attempts	R		liter
33	(max. 40 bar) (engine not preheated)	ĸ	-	
36	Starting air tank for 10 start attempts	D		litor
30	(max. 30 bar) (engine not preheated)	R]-	liter

15. Starting (pneumatic/oil pressure starter)

101 014	ting (pricamatic) on pressure starter)			
No.	Description	Index	Value	Unit
35	Pneumatic starter: make Gali		-	-
36	Pneumatic starter: make TDI		X	-
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
	Air consumption/start attempt			
111	(engine preheated)		1 1	3
114	Engine without generator	R	1.1	m³n
	Control with engine controller			



Name 12V4000G14F

Application Group 3B

Dataset Ref. 25°C/55°C Speed [rpm] 1500 Nominal power [kW] 1420 Nominal power [bhp] 1904 Frequency [Hz] 50

Exhaust Regulations Fuel-consumption optimized;

	Air consumption/start attempt			
	(engine not preheated)			
115	Engine without generator	R	1.2	m³n
	Control with engine controller			
	Air consumption with external control			
116	for air-starter (per second	R	0.6	m³n
	Starting air tank for 3 start attempts			
23	-	R	-	liter
	(max. 40 bar) (engine preheated)			
24	Starting air tank for 3 start attempts	R	-	liter
	(max. 30 bar) (engine preheated)			
25	Starting air tank for 6 start attempts	R	-	liter
	(max. 40 bar) (engine preheated)			
26	Starting air tank for 6 start attempts	R	-	liter
	(max. 30 bar) (engine preheated)	-		
27	Starting air tank for 10 start attempts	R	_	liter
	(max. 40 bar) (engine preheated)			iii.ci
28	Starting air tank for 10 start attempts	R	_	liter
20	(max. 30 bar) (engine preheated)	I'\		inter
29	Starting air tank for 3 start attempts	R	N	liter
23	(max. 40 bar) (engine not preheated)	IX.	N .	iitei
30	Starting air tank for 3 start attempts	R	N	liter
	(max. 30 bar) (engine not preheated)	IX.		iitei
31	Starting air tank for 6 start attempts	R	N	liter
31	(max. 40 bar) (engine not preheated)	I ^K	IN .	liter
32	Starting air tank for 6 start attempts	_	N	likan
32	(max. 30 bar) (engine not preheated)	R	IN .	liter
33	Starting air tank for 10 start attempts	R	N	Da
33	(max. 40 bar) (engine not preheated)	K	IN .	liter
34	Starting air tank for 10 start attempts		N	1
34	(max. 30 bar) (engine not preheated)	R	IN	liter
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
105	Starting oil pressure before starter motor, max.	L	207	bar
107	Start attempt duration (engine not preheated)	R	N	s
108	Start attempt duration, max.	L	N	S
100	Hydraulic oil consumption / start attempt	_	N	lia
109	(engine preheated)	R	N	liter
	Hydraulic oil consumption / start attempt		1	
110	(engine not preheated)	R	N	liter
111	Minimum specification of hydraulic oil viscosity	R	MilSpec 5606	-

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

INO. IDESCRIPTION IIINEE IVALUE IIINEE	No.	Description	Index Value	Unit
--	-----	-------------	-------------	------

> Actual value must be greater than specified value <a> Actual value must be less than specified value



Name 12V4000G14F

Application Group 3B

Dataset Ref. 25°C/55°C Speed [rpm] 1500 Nominal power [kW] 1420 Nominal power [bhp] 1904 Frequency [Hz] 50

Exhaust Regulations Fuel-consumption optimized;

	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	dograps (°)
19	(Option: max. operating inclinations)	L	10	degrees (°)
20	Transverse inclination, temporary max.		-	dograps (°)
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	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	
-----	-------------	-------	-------	------	--

> Actual value must be greater than specified value <a> Actual value must be less than specified value





Name 12V4000G14F

Application Group 3B

Dataset Ref. 25°C/55°C Speed [rpm] 1500 1420 Nominal power [kW] Nominal power [bhp] 1904 Frequency [Hz] 50

Exhaust Regulations Fuel-consumption optimized;

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

21. Exhaust emissions

No.	Description	Index	Value	Unit
1072	Emissions data sheet:		v	
1972	Fuel-consumption optimized		^	-

22. Acoustics

Description	Index	Value	Unit
Exhaust noise, unsilenced - CP			
(free-field sound-pressure level Lp, 1m distance,	R	111	dB(A)
ISO 6798, +3dB(A) tolerance)			
Exhaust noise, unsilenced - CP	D	124	dB(A)
(sound power level LW, ISO 6798, +3dB(A) tolerance)	N	124	ub(A)
Exhaust noise, unsilenced - FSP			
(free-field sound-pressure level Lp, 1m distance,	R	-	dB(A)
	D	-	dB(A)
	IX.		ub(A)
Exhaust noise, unsilenced - CP			
(free-field sound-pressure level Lp, 1m distance,	D	7336600	
ISO 6798)	N	7330006	-
Spectrum No.			
Exhaust noise,unsilenced - CP			
(sound power level LW, ISO 6798)	R	N	-
Spectrum No.			
Exhaust noise, unsilenced - FSP			
(free-field sound-pressure level Lp, 1m distance,	R	-	-
ISO 6798) Spectrum No.			
Exhaust noise,unsilenced - FSP			
(sound power level LW, ISO 6798)	R	-	-
Spectrum No.			
Engine surface noise with attenuated			
intake noise (filter) - CP	В	102	dB(A)
(free-field sound-pressure level Lp, 1m distance,	K	102	ub(A)
ISO 6798, +2dB(A) tolerance)			
Engine surface noise with attenuated			
intake noise (filter) - CP	R	120	dB(A)
(sound power level LW, ISO 6798, +2dB(A) tolerance)			
Engine surface noise with attenuated			
intake noise (filter) - FSP			-ID(A)
(free-field sound-pressure level Lp, 1m distance,	K	-	dB(A)
ISO 6798, +2dB(A) tolerance)			
	Exhaust noise, unsilenced - CP (free-field sound-pressure level Lp, 1m distance, ISO 6798, +3dB(A) tolerance) Exhaust noise, unsilenced - CP (sound power level LW, ISO 6798, +3dB(A) tolerance) Exhaust noise, unsilenced - FSP (free-field sound-pressure level Lp, 1m distance, ISO 6798, +3dB(A) tolerance) Exhaust noise, unsilenced - FSP (sound power level LW, ISO 6798, +3dB(A) tolerance) Exhaust noise, unsilenced - CP (free-field sound-pressure level Lp, 1m distance, ISO 6798) Spectrum No. Exhaust noise, unsilenced - CP (sound power level LW, ISO 6798) Spectrum No. Exhaust noise, unsilenced - FSP (free-field sound-pressure level Lp, 1m distance, ISO 6798) Spectrum No. Exhaust noise, unsilenced - FSP (sound power level LW, ISO 6798) Spectrum No. Exhaust noise, unsilenced - FSP (sound power level LW, ISO 6798) Spectrum No. Exhaust noise, unsilenced - FSP (sound power level LW, ISO 6798) Spectrum No. Engine surface noise with attenuated intake noise (filter) - CP (free-field sound-pressure level Lp, 1m distance, ISO 6798, +2dB(A) tolerance) Engine surface noise with attenuated intake noise (filter) - CP (sound power level LW, ISO 6798, +2dB(A) tolerance) Engine surface noise with attenuated intake noise (filter) - FSP (free-field sound-pressure level Lp, 1m distance,	Exhaust noise, unsilenced - CP (free-field sound-pressure level Lp, 1m distance, ISO 6798, +3dB(A) tolerance) Exhaust noise, unsilenced - CP (sound power level LW, ISO 6798, +3dB(A) tolerance) Exhaust noise, unsilenced - FSP (free-field sound-pressure level Lp, 1m distance, ISO 6798, +3dB(A) tolerance) Exhaust noise, unsilenced - FSP (sound power level LW, ISO 6798, +3dB(A) tolerance) Exhaust noise, unsilenced - CP (free-field sound-pressure level Lp, 1m distance, ISO 6798) Spectrum No. Exhaust noise, unsilenced - CP (sound power level LW, ISO 6798) Spectrum No. Exhaust noise, unsilenced - FSP (free-field sound-pressure level Lp, 1m distance, ISO 6798) Spectrum No. Exhaust noise, unsilenced - FSP (free-field sound-pressure level Lp, 1m distance, ISO 6798) Spectrum No. Exhaust noise, unsilenced - FSP (sound power level LW, ISO 6798) Spectrum No. Engine surface noise with attenuated intake noise (filter) - CP (free-field sound-pressure level Lp, 1m distance, ISO 6798, +2dB(A) tolerance) Engine surface noise with attenuated intake noise (filter) - CP (sound power level LW, ISO 6798, +2dB(A) tolerance) Engine surface noise with attenuated intake noise (filter) - FSP (free-field sound-pressure level LD, 1m distance, R R R R R R R R R R R R R R R R R R	Exhaust noise, unsilenced - CP (free-field sound-pressure level Lp, 1m distance, ISO 6798, +3dB(A) tolerance) Exhaust noise, unsilenced - CP (sound power level LW, ISO 6798, +3dB(A) tolerance) Exhaust noise, unsilenced - FSP (free-field sound-pressure level Lp, 1m distance, ISO 6798, +3dB(A) tolerance) Exhaust noise, unsilenced - FSP (sound power level LW, ISO 6798, +3dB(A) tolerance) Exhaust noise, unsilenced - FSP (sound power level LW, ISO 6798, +3dB(A) tolerance) Exhaust noise, unsilenced - CP (free-field sound-pressure level Lp, 1m distance, ISO 6798) Spectrum No. Exhaust noise, unsilenced - CP (sound power level LW, ISO 6798) Spectrum No. Exhaust noise, unsilenced - FSP (free-field sound-pressure level Lp, 1m distance, ISO 6798) Spectrum No. Exhaust noise, unsilenced - FSP (sound power level LW, ISO 6798) Spectrum No. Exhaust noise, unsilenced - FSP (sound power level LW, ISO 6798) Spectrum No. Exhaust noise, unsilenced - FSP (sound power level LW, ISO 6798) Spectrum No. Exhaust noise, unsilenced - FSP (sound power level LW, ISO 6798) Spectrum No. Exhaust noise, unsilenced - FSP (sound power level LW, ISO 6798) Spectrum No. Exhaust noise, unsilenced - FSP (sound power level LW, ISO 6798) Spectrum No. Exhaust noise, unsilenced - FSP (sound power level LW, ISO 6798) Spectrum No. Exhaust noise, unsilenced - FSP (sound power level LW, ISO 6798) Spectrum No. Exhaust noise, unsilenced - FSP (sound power level LW, ISO 6798) Spectrum No. Exhaust noise, unsilenced - FSP (sound power level LW, ISO 6798, +2dB(A) tolerance) Engine surface noise with attenuated intake noise (filter) - CP (sound power level LW, ISO 6798, +2dB(A) tolerance) Engine surface noise with attenuated intake noise (filter) - FSP (free-field sound-pressure level LP, 1m distance, Expectrum No. Exhaust noise, unsilenced - FSP R - Surface noise with attenuated intake noise (filter) - FSP (free-field sound-pressure level LP, 1m distance,

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

The module is valid for this product type
In Mon-applicable
The module is not valid for this product type
IN 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%)



Name 12V4000G14F

Application Group 3B

Dataset Ref. 25°C/55°C Speed [rpm] 1500 Nominal power [kW] 1420 Nominal power [bhp] 1904 Frequency [Hz] 50

Exhaust Regulations Fuel-consumption optimized;

	Engine surface noise with attenuated			
210				۹۵(۷)
210	intake noise (filter) - FSP	R	-	dB(A)
	(sound power level LW, ISO 6798, +2dB(A) tolerance)			
	Engine surface noise with attenuated			
111	intake noise (filter) - CP	R	733674e	-
	(free-field sound-pressure level Lp, 1m distance,			
	ISO 6798) Spectrum No.			
	Engine surface noise with attenuated			
211	intake noise (filter) - CP	R	N	
211	(sound power level LW, ISO 6798)	1		
	Spectrum No.			
	Engine surface noise with attenuated			
112	intake noise (filter) - FSP	В		
112	(free-field sound-pressure level Lp, 1m distance,	R	-	-
	ISO 6798) Spectrum No.			
	Engine surface noise with attenuated			
242	intake noise (filter) - FSP			
212	(sound power level LW, ISO 6798)	R	-	-
	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	(sound power level LW, ISO 6798, +2dB(A) tolerance)	R	-	dB(A)
	Engine surface noise, without intake noise - FSP			
134	(free-field sound-pressure level Lp, 1m distance,	R	-	_
	ISO 6798) Spectrum No.			
	Engine surface noise, without intake noise - FSP			
234	(sound power level LW, ISO 6798)	R	-	_
20.	Spectrum No.			
	Intake noise, unsilenced - FSP			
118	(free-field sound-pressure level Lp, 1m distance,	R	_	dB(A)
110	ISO 6798)	IX.		ub(A)
	Intake noise, unsilenced - FSP			
218	(sound power level LW, ISO 6798)	R	-	dB(A)
	Intake noise, unsilenced - FSP			
	(free-field sound-pressure level Lp, 1m distance,			
120	ISO 6798)	R	-	-
	Spectrum No.			
220	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	733712e	-
	Spectrum No.			



Speed [rpm] Name 12V4000G14F 1500 1420 **Application Group** 3B Nominal power [kW] Dataset Ref. 25°C/55°C Nominal power [bhp] 1904 Frequency [Hz] 50

Exhaust Regulations Fuel-consumption optimized;

126	Structure borne noise at engine mounting brackets in vertical direction above resilient engine mounts - FSP Spectrum No.	R	-	-
	Structure born noise, vertically below the resilient engine			
128	mounts - FSP	R	-	-
	Spectrum No.			