- Product Data -



Name	10V1600G20F	Speed [rpm]	1500
Application Group	3B	Nominal power [kW]	448
Dataset	Ref. 25°C/-	Nominal power [bhp]	601
		Frequency [Hz]	50

Exhaust Regulations

EU Nonroad St IIIA (97/68/EC); MoEF India / CPCB Stage II;

Reference conditions

No.	Description	Index	Value	Unit
6	Intake air temperature		25	°C
8	Barometric pressure		1000	mbar
9	Site altitude above sea level		100	m

0. Data-relevant engine design configuration

No.	Description	Index	Value	Unit
8	Engine rated speed switchable			
	(1500/1800 rpm)		-	-
13	Engine without sequential turbocharging		×	
	(turbochargers without cut-in/cut-out control)		^	-
31	Engine with air-cooled charge air		х	-

1. Power-related data

No.	Description	Index	Value	Unit
1	Engine rated speed	А	1500	rpm
3	Mean piston speed		7.5	m/s
1	Continuous power ISO 3046 (10% overload capability)	^	448	kW
4	(design power DIN 6280, ISO 8528)	A	448	ĸvv
5	Fuel stop power ISO 3046	А	493	kW
0	Mean effective pressure (MEP)		20.5	har
0	(Continuous power ISO 3046)		20.5	bar
9	Mean effective pressure (MEP)		22.5	her
	(Fuel stop power ISO 3046)		22.5	bar

2. General Conditions (for maximum power)

No.	Description	Index	Value	Unit
1	Intake air depression (new filter)	А	25	mbar
2	Intake air depression, max.	L	50	mbar
3	Exhaust back pressure	A	85	mbar
4	Exhaust back pressure, max.	L	85	mbar
5	Fuel temperature at fuel feed connection	R	38	°C
9	Fuel temperature at fuel feed connection, max. (w/o power reduction)	L	60	°C
10	Fuel temperature at fuel feed connection, max.	L	70	°C
49	Max. ambient temperature in direct vicinity of vibration damper	L	55	°C

3. Consumption

No.	Description	Index	Value	Unit
17	Specific fuel consumption (be) - 100 % CP (+ 5 %; EN 590; 42.8 MJ/kg)	R	209	g/kWh

 BL Reference value: fuel stop power

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

 DL Reference value: continuous power

 Engine power that can be run continuously under standard conditions

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

 X
 Applicable

 The module is valid for this product type
 Non-applicable

 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 **Application Group** Dataset

10V1600G20F 3B Ref. 25°C/-

Speed [rpm]	1500
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Exhaust Regulations

EU Nonroad St IIIA (97/68/EC); MoEF India / CPCB Stage II;

18	Specific fuel consumption (be) - 75 % CP	R	221	g/kWh
19	(+ 5 %; EN 590; 42.8 MJ/kg) Specific fuel consumption (be) - 50 % CP	R	233	- (I-)A/h
19	(+ 5 %; EN 590; 42.8 MJ/kg)	ĸ	235	g/kWh
20	Specific fuel consumption (be) - 25 % CP	R	243	a /k/M/b
20	(+ 5 %; EN 590; 42.8 MJ/kg)	ĸ	243	g/kWh
56	Specific fuel consumption (be) - 100 % FSP	R	205	g/kWh
50	(+ 5 %; EN 590; 42.8 MJ/kg)	ĸ	205	g/KVVII
57	Specific fuel consumption (be) - 75 % FSP	R	218	g/kWh
57	(+ 5 %; EN 590; 42.8 MJ/kg)	n	210	g/KVVII
58	Specific fuel consumption (be) - 50 % FSP	R	232	g/kWh
50	(+ 5 %; EN 590; 42.8 MJ/kg)	n		g/ K VVII
59	Specific fuel consumption (be) - 25 % FSP	R	248	g/kWh
23	(+ 5 %; EN 590; 42.8 MJ/kg)	n	248	g/KVVII
73	No-load fuel consumption	R	2.1	kg/h
61	Lube oil consumption after 100 h of operation	R	<0.2	% of B
01	(B = fuel consumption per hour)	n	<0.z	70 UI B
62	Lube oil consumption after 100 h of operation, max.		<0.5	% of B
02	(B = fuel consumption per hour)	L	<0.5	70 UI D

4. Model-related data (basic design)

No.	Description	Index	Value	Unit
3	Engine with exhaust turbocharger (ETC) and intercooler		x	-
4	Exhaust piping, non-cooled		х	-
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		10	-
7	Cylinder configuration: V angle		90	degrees (°)
10	Bore		122	mm
11	Stroke		150	mm
12	Displacement, cylinder		1.75	liter
13	Displacement, total		17.5	liter
14	Compression ratio		17.5	-
41	Cylinder liners: wet, replaceable		х	-
24	Number of inlet valves, per cylinder		2	-
25	Number of exhaust valves, per cylinder		2	-
15	Number of turbochargers		2	-
28	Standard flywheel housing flange (engine main PTO)		01	SAE
43	Flywheel interface (DISC)		14"	-

5. Combustion air / exhaust gas

No.	Description	Index	Value	Unit
19	Charge-air temperature before cylinder	A	50	°C
33	Charge-air flow through external air-to-air intercooler	А	0.28	m³/s

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 Engine power that can be run continuously under standard conditions

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 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

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



Name Application Group Dataset

10V1600G20F 3B Ref. 25°C/-

Speed [rpm]	1500
Nominal power [kW]	448
Nominal power [bhp]	601
Frequency [Hz]	50

Exhaust Regulations

EU Nonroad St IIIA (97/68/EC); MoEF India / CPCB Stage II;

34	Charge-air temperature before external	^	201	°C
54	air-to-air intercooler	A	201	C
35	Charge-air temperature after external	А	50	°C
33	air-to-air intercooler	А	50	C
36	Charge-air temperature after external		65	°C
30	air-to-air intercooler, max.	L	65	C
37	Charge-air temperature after external		-15	°C
57	air-to-air intercooler, min.	L	-15	C
39	Pressure differential in external		130	mbar
59	air-to-air intercooler, max.	L	130	праг
8	Charge-air pressure before cylinder - CP	R	3.12	bar abs
27	Charge-air pressure before cylinder - FSP	R	3.27	bar abs
9	Combustion air volume flow - CP	R	0.57	m³/s
10	Combustion air volume flow - FSP	R	0.60	m³/s
11	Exhaust volume flow (at exhaust temperature) - CP	R	1.56	m³/s
12	Exhaust volume flow (at exhaust temperature) - FSP	R	1.64	m³/s
15	Exhaust temperature after turbocharger - CP	R	500	°C
16	Exhaust temperature after turbocharger - FSP	R	499	°C

6. Heat dissipation

No.	Description	Index	Value	Unit
16	Heat dissipated by engine coolant - FSP	D	229	kW
10	with oil heat, without charge-air heat	к	229	ĸvv
26	Charge-air heat dissipation - CP	R	99	kW
27	Charge-air heat dissipation - FSP	R	108	kW
31	Heat dissipated by return fuel flow - CP	R	3.5	kW
32	Heat dissipated by return fuel flow - FSP	R	3.5	kW
33	Radiation and convection heat, engine - CP	R	21	kW

7. Coolant system (high-temperature circuit)

No.	Description	Index	Value	Unit
17	Coolant temperature		95	°C
17	(at engine outlet to cooling equipment)	A	95	°C
20	Coolant temperature after engine, limit 1	L	105	°C
21	Coolant temperature after engine, limit 2	L	109	°C
25	Coolant antifreeze content, max.	L	50	%
30	Cooling equipment: coolant flow rate	А	23.3	m³/h
35	Coolant pump: inlet pressure, min.	L	1.4	bar
36	Coolant pump: inlet pressure, max.	L	3.5	bar
41	Pressure loss in off-engine cooling system, max.	L	0.7	bar
47	Breather valve (expansion tank)	D	1.0+0.3	har
47	opening pressure (excess pressure)	R	1.0+0.5	bar
54	Cooling equipment: height above engine, max.	L	15	m
48	Breather valve (expansion tank)		-0.2	h a s
40	opening pressure (depression)	R	-0.2	bar
49	Pressure in cooling system, max.	L	5.0	bar

 BL
 Reference value: fuel stop power

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 DL

 DL
 Reference value: continuous power

 Engine power that can be run continuously under standard conditions
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 X
 Applicable

 The module is valid for this product type
 Image: Applicable

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

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 Image: Applicable

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

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

- Product Data -



Name Application Group	10V1600G20F 3B	Speed [rpm] Nominal power [kW]	1500 448
Dataset	Ref. 25°C/-	Nominal power [bhp]	601
		Frequency [Hz]	50

Exhaust Regulations

EU Nonroad St IIIA (97/68/EC); MoEF India / CPCB Stage II;

10. Lube oil system

No.	Description	Index	Value	Unit
1	Lube oil operating temp. before engine, from	R	105	°C
2	Lube oil operating temp. before engine, to	R	115	°C
8	Lube oil operating press. bef. engine, from	R	4.5	bar
9	Lube oil operating press. bef. engine, to	R	5.5	bar
10	Lube oil pressure before engine, alarm	L	2.6	bar
11	Lube oil pressure before engine, shutdown	L	2.4	bar
19	Lube oil fine filter (main circuit):		1	
19	number of units			-
20	Lube oil fine filter (main circuit):		4	
20	number of elements per unit		4	-
56	Lube-oil fine filter (main flow), particle size 1		10	μm
57	Lube-oil fine filter (main flow), filtering efficiency re 1		26	%
58	Lube-oil fine filter (main flow), particle size 2		15	μm
59	Lube-oil fine filter (main flow), filtering efficiency re 2		50	%
60	Lube-oil fine filter (main flow), particle size 3		20	μm
61	Lube-oil fine filter (main flow), filtering efficiency re 3		75	%
32	Lube oil fine filter (main circuit):		2	har
52	pressure differential, max.	L	۷	bar

11. Fuel system

	ayatem			
No.	Description	Index	Value	Unit
1	Fuel pressure at engine fuel feed connection, min.		-0.5	hau
T	(when engine is starting)	L	-0.5	bar
2	Fuel pressure at engine fuel feed connection, max.		0.5	bar
2	(when engine is starting)	Ľ	0.5	Dai
4211	Max. fuel supply volume	А	4.2	liter/min
4211	Normal mode	А	4.2	iiter/min
4212	Max. fuel supply volume	•	5.1	lite a lasia
4212	Failure mode	A	5.1	liter/min
1212	Max. fuel return volume	•	2.0	liter/min
4213	Normal mode	A	2.0	iiter/min
4214	Max. fuel return volume	•	4.1	liter/min
4214	Failure mode	A	4.1	inter/min
10	Fuel pressure at return connection on engine, max.	L	<0.4	bar
18	Fuel fine filter (main circuit): number of units	А	1	-
19	Fuel fine filter (main circuit): number of elements per unit	А	1	-
68	Fuel fine filter, particle size 1		4	μm
69	Fuel fine filter, filtering efficiency re 1		99.5	%
70	Fuel fine filter, particle size 2		6	μm
71	Fuel fine filter, filtering efficiency re 2		99.8	%
72	Fuel fine filter, particle size 3		14	μm
73	Fuel fine filter, filtering efficiency re 3		99.8	%
21	Fuel fine filter (main circuit): pressure differential, max.	L	2	bar

 BL Reference value: fuel stop power

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

 DL Reference value: continuous power

 Engine power that can be run continuously under standard conditions

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- Product Data -



Name	10V1600G20F	Speed [rpm]	1500
Application Group	3B	Nominal power [kW]	448
Dataset	Ref. 25°C/-	Nominal power [bhp] Frequency [Hz]	601 50

Exhaust Regulations

EU Nonroad St IIIA (97/68/EC); MoEF India / CPCB Stage II;

12. General operating data

No.	Description	Index	Value	Unit
	Cold start capability: air temperature	_		
1	(w/o starting aid, w/o preheating) - (case A)	R	-20	°C
2	Additional condition (to case A):	_	20	
2	engine coolant temperature	R	-20	°C
3	Additional condition (to case A): lube oil temperature	R	-20	°C
4	Additional condition (to case A): lube oil viscosity	R	10W40	SAE
9	Cold start capability: air temperature		-40	°C
9	(w/o starting aid, w/ preheating) - (case C)	R	-40	C
10	Additional condition (to case C):	R	-40	°C
10	engine coolant temperature	к	-40	C
11	Additional condition (to case C): lube oil temperature	R	-40	°C
12	Additional condition (to case C): lube oil viscosity	R	10W40	SAE
21	Coolant preheating, heater performance (standard)	R	3	kW
22	Coolant preheating, preheating temperature, min.	L	32	°C
3506	Coolant preheating, preheating temperature, max.	L	55	°C
28	Breakaway torque (without driven machinery)	R	720	Nm
20	coolant temperature +5°C	к	720	INTTI
30	Breakaway torque (without driven machinery)	R	430	Nm
30	coolant temperature +40°C	n	450	INTE
29	Cranking torque at firing speed (without driven machinery)	R	360	Nm
29	coolant temperature +5°C	к	300	INTTI
31	Cranking torque at firing speed (without driven machinery)	R	225	Nm
21	coolant temperature +40°C	n	225	INTE
96	Starting is blocked if the engine coolant temperature is		-20	°C
50	below		-20	C
37	High idling speed, max. (static)	L	1560	rpm
38	Limit speed for overspeed alarm / emergency shutdown	L	1800	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	R	60	°C
	min.	N	00	
48	Minimum continuous load	R	20	%
50	Engine mass moment of inertia	R	2.116	kgm²
	(without flywheel)	N	2.110	5
52	Standard flywheel mass moment of inertia	R	1.44	kgm²
1982	Block bending moment - SAE 1	R	3	kNm
51	Engine mass moment of inertia	R	3.556	kgm²
51	(with standard flywheel)			5
109	Speed droop (with electronic governor) adjustable P1	R	4	%
110	Speed droop (with electronic governor) adjustable P2	R	0.4	%
95	Number of starter ring-gear teeth on engine flywheel		157	-

13. Starting (electric)

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

 DL Reference value: continuous power

 Engine power that can be run continuously under standard conditions

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



Name Application Group Dataset

10V1600G20F 3B Ref. 25°C/-

Speed [rpm]	1500
Nominal power [kW]	448
Nominal power [bhp]	601
Frequency [Hz]	50

Exhaust Regulations

EU Nonroad St IIIA (97/68/EC); MoEF India / CPCB Stage II;

No.	Description	Index	Value	Unit
2309	Manufacturer	macx	Prestolite	-
2310	Number of starter		1	-
2312	Starter electrically redundant		-	-
2313	Rated power per starter	R	7.5	kW
2314	Starter, rated voltage	R	24	VDC
2315	Rated short-circuit current per starter	L	1730	A
	Power consumption per starter			
3000	(at an engine speed of 100 rpm, SAE0)	R	400	А
	Power consumption per starter			
3002	(at an engine speed of 100 rpm, SAE1)	R	540	A
2317	Internal resistance of power supply + line resistance per starter	A	0.008	Ω
2318	Manufacturer		Prestolite	-
2319	Number of starter		1	-
2320	Starter electrically redundant		x	-
2321	Rated power per starter	R	7.5	kW
2322	Starter, rated voltage	R	24	VDC
2323	Rated short-circuit current per starter	L	1730	A
	Power consumption per starter			
3001	(at an engine speed of 100 rpm, SAE0)	R	400	A
	Power consumption per starter			
3003	(at an engine speed of 100 rpm, SAE1)	R	540	A
2325	Internal resistance of power supply + line resistance per starter	A	0.008	Ω
2326	Manufacturer		Prestolite	-
2327	Number of starter		2	-
2328	Starter electrically redundant		-	-
2329	Rated power per starter	R	7.5	kW
2330	Starter, rated voltage	R	24	VDC
2331	Rated short-circuit current per starter	L	1730	А
3251	Power consumption per starter	_	400	
3251	(at an engine speed of 100 rpm, SAE0)	R	400	А
2252	Power consumption per starter		540	
3252	(at an engine speed of 100 rpm, SAE1)	R	540	А
2333	Internal resistance of power supply + line resistance per starter	A	0.008	Ω
2347	Generally valid data for starter		х	-
2342	Rated starting-attempt Duration (at +20°C ambient temperature with battery	R	3	s
2242	Interval between starts		-	
2343	(at rated starting-attempt duration), min.	L	5	S
2345	Maximum acceptable starting-attempt duration	L	15	s
2244	Interval between starts		60	
2344	(when starting-attempt duration > rated starting-attempt duration)	R	60	S
2240	Starting attempts within 30 minutes		6	
2346	(at +20°C ambient temperature with battery full), max.	L	o	-

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

No. Description

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

 DL Reference value: continuous power

 Engine power that can be run continuously under standard conditions

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 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
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 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%)

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

Index Value

Unit

- Product Data -



Name	10V1600G20F	Speed [rpm]	1500
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15	Longitudinal inclination, continuous max. driving end down (Option: max. operating inclinations)	L	15	degrees (°)
17	Longitudinal inclination, continuous max. driving end up (Option: max. operating inclinations)	L	15	degrees (°)
19	Transverse inclination, continuous max. (Option: max. operating inclinations)	L	15	degrees (°)

18. Capacities

No.	Description	Index	Value	Unit
1	Engine coolant capacity (without cooling equipment)	R	60 *	liter
11	On-engine fuel capacity	R	3*	liter
	Engine oil capacity, initial filling			
14	(standard oil system)	R	60.5	liter
	(Option: max. operating inclinations)			
	Oil change quantity, max.			
20	(standard oil system)	R	53	liter
	(Option: max. operating inclinations)			
	Oil pan capacity, dipstick mark min.			
28	(standard oil system)	L	46	liter
	(Option: max. operating inclinations)			
	Oil pan capacity, dipstick mark max.			
29	(standard oil system)	L	53	liter
	(Option: max. operating inclinations)			

19. Masses / dimensions

No.	Description	Index	Value	Unit
7	Engine dry mass (with engine-mounted	в	1694 *	kg
	standard accessories, without coupling)	к		
12	Engine mass, wet	Р	1752	ka
	(with engine-mounted standard accessories, without coupling)	ĸ	1752	kg

20. Fan / fan cooler

No.	Description	Index	Value	Unit
3	Fan, pusher-type		х	-
18	Fan arrangement: vertical above crankshaft		х	-
9	Fan drive: mechanical via V-belt		х	-
13	Fan: speed	R	1500	rpm

21. Exhaust emissions

No. Description Index Value Unit

 BL Reference value: fuel stop power

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

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 Engine power that can be run continuously under standard conditions

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 X Applicable

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 Non-applicable

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 Will applicable Work applicable

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 Work applicable

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Exhaust Regulations

EU Nonroad St IIIA (97/68/EC); MoEF India / CPCB Stage II;

2052	Emissions data sheet: MoEF India / CPCB Stage II	EDS16000145	-
1967	Emissions data sheet: EURO III A	EDS16000075	-

No.	Description	Index	Value	Unit
-	Exhaust noise, unsilenced - CP			
101	(free-field sound-pressure level Lp, 1m distance,	R	109	dB(A)
	ISO 6798, +3dB(A) tolerance)			
204	Exhaust noise, unsilenced - CP	_	400	10(1)
201	(sound power level LW, ISO 6798, +3dB(A) tolerance)	R	122	dB(A)
	Exhaust noise, unsilenced - FSP			
102	(free-field sound-pressure level Lp, 1m distance,	R	110	dB(A)
	ISO 6798, +3dB(A) tolerance)			
202	Exhaust noise, unsilenced - FSP	R	123	dB(A)
202	(sound power level LW, ISO 6798, +3dB(A) tolerance)	n	125	UD(A)
	Exhaust noise, unsilenced - CP			
103	(free-field sound-pressure level Lp, 1m distance,	R	Ν	_
100	ISO 6798)	IX.		-
	Spectrum No.			
	Exhaust noise, unsilenced - CP			
203	(sound power level LW, ISO 6798)	R	-	-
	Spectrum No.			
	Engine surface noise with attenuated			
109	intake noise (filter) - CP	R	-	dB(A)
	(free-field sound-pressure level Lp, 1m distance,			<i>ab(r.y</i>
	ISO 6798, +2dB(A) tolerance)			
	Engine surface noise with attenuated			
209	intake noise (filter) - CP	R	-	dB(A)
	(sound power level LW, ISO 6798, +2dB(A) tolerance)			
	Engine surface noise with attenuated			
111	intake noise (filter) - CP	R	-	-
	(free-field sound-pressure level Lp, 1m distance, ISO 6798) Spectrum No.			
	Engine surface noise with attenuated			
	intake noise (filter) - CP			
211	(sound power level LW, ISO 6798)	R	-	-
	Spectrum No.			
	Engine surface noise with attenuated			
	intake noise (intake silencer) - CP			
113	(free-field sound-pressure level Lp, 1m distance,	R	101	dB(A)
	In the new sound-pressure level Lp, In distance,			

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 Applicable

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 Non-applicable

 No applicable
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 The work of the module is not valid for this product type
 No applicable

 No applicable
 No applicable

 No applicable
 No applicable

 The wold was not yet been named or will not be named
 No applicable

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

- Product Data -



Name	10V1600G20F	Speed [rpm]	1500
Application Group	3B	Nominal power [kW]	448
Dataset	Ref. 25°C/-	Nominal power [bhp]	601
		Frequency [Hz]	50

Exhaust Regulations

EU Nonroad St IIIA (97/68/EC); MoEF India / CPCB Stage II;

114	Engine surface noise with attenuated intake noise (intake silencer) - FSP (free-field sound-pressure level Lp, 1m distance, ISO 6798, +2dB(A) tolerance)	R	101	dB(A)
125	Structure borne noise at engine mounting brackets in vertical direction above resilient engine mounts - CP Spectrum No.	R	-	-
	Structure borne noise at engine mounting brackets in vertical direction above resilient engine mounts - FSP Spectrum No.	R	-	-

 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%)

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