

D2842

Description of engines

Characteristics

- Cylinders and arrangement: 12 cylinders in 90° V arrangement
- Mode of operation: Four-stroke diesel engine with direct fuel injection
- Turbocharging: Turbo charger with charge air cooling
- Engine cooling: Water circulation by means of attached rotary pump and front end combination radiator
- Injection: Bosch inline injection pump with electromagnetic actuator
- Engine control: Various types of GAC control unit available on request

D2842

Technical data

Technical features D2842

Mode of operation		ESP				LTP			
		1 500 (50)		1 800 (60)		1 500 (50)		1 800 (60)	
at engine speed	rpm (Hz)								
Engine version		LE 203	LE 213	LE 203	LE 213	LE 201	LE 211	LE 201	LE 211
Bore	mm	128	128	128	128	128	128	128	128
Stroke	mm	142	142	142	142	142	142	142	142
Displacement	l	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9
blocked ISO effective power ¹⁾	kW	633	702	718	800	597	649	682	765
Torque	Nm	4 030	4 469	3 809	4 244	3 803	4 132	3 618	4 056
ISO standard power ²⁾	kW	–	–	–	–	–	–	–	–
Torque	Nm	–	–	–	–	–	–	–	–
Net engine power output	kVA	730	810	820	920	700	750	780	870

Mode of operation		PRP				COP			
		1 500 (50)		1 800 (60)		1 500 (50)		1 800 (60)	
at engine speed	rpm (Hz)								
Engine version		LE 201	LE 211	LE 201	LE 211	LE 201	LE 211	LE 201	LE 211
Bore	mm	128	128	128	128	128	128	128	128
Stroke	mm	142	142	142	142	142	142	142	142
Displacement	l	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9
blocked ISO effective power ¹⁾	kW	–	–	–	–	–	–	–	–
Torque	Nm	–	–	–	–	–	–	–	–
ISO standard power ^{2) 3)}	kW	543	590	620	695	390	446	470	530
Torque	Nm	3 457	3 756	3 289	3 687	2 483	2 840	2 494	2 812
Net engine power output	kVA	630	680	710	790	450	510	530	600

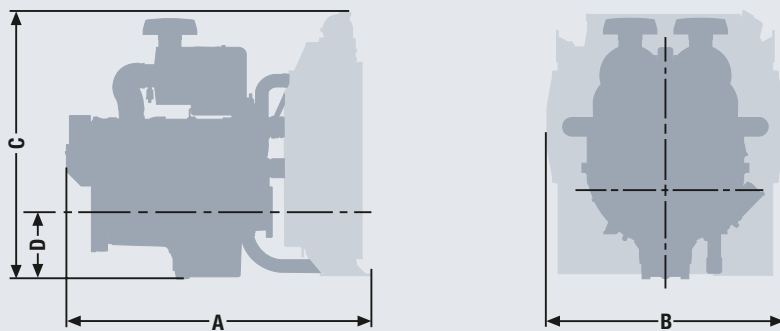
1) Time-limited continuous output that must not be exceeded (IFN).

2) Variable continuous output during PRP operation, can be exceeded by 10 % for limited period (ICXN).

3) Variable continuous output during COP operation, can be exceeded by 10 % (ICXN).

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Dimensions D2842

Type designation		LE 203/LE 213/LE 201/LE 211
A-Length with fan-cooled radiator	mm	2342
B-Width with fan-cooled radiator	mm	1600
C-Height with fan-cooled radiator	mm	1845
D-Height of lower edge of engine to middle of crankshaft	mm	480
Dry weight with cooling system	kg	1770