

SIGMA VARIABLE SPEED ENGINE

SW 20 - 20

Power range: 16 - 28.7 kW; 21.4 - 38.5 bhp
Variable speed: 1000 - 2000 r/min

NATURALLY ASPIRATED HEAVY DUTY VARIABLE SPEED DIESEL ENGINE

SPECIAL ATTRIBUTES

- designed for continuous operation in ambient temperatures up to 50°C (122°F)
- unaided cold start down to -2°C (28.4°F)

BASIC ENGINE CHARACTERISTICS

- three cylinders
- diesel fuelled
- direct injection
- liquid cooled
- naturally aspirated

DESIGN FEATURES AND EQUIPMENT

- standard oil and fuel filters
- 12V electric start
- anti clockwise rotation, looking on flywheel
- SAE 10" flywheel
- SAE3 flywheel housing
- radiator with fan guard
- cast-iron crankcase
- self-vent fuel system
- inline fuel injection pump
- flywheel with ring gear
- air cleaner
- low oil pressure switch
- spin-on lubricating oil filter
- primary/secondary fuel filter
- inlet and exhaust manifolds
- 250-hour service intervals
- operators' handbook
- instrumentation package



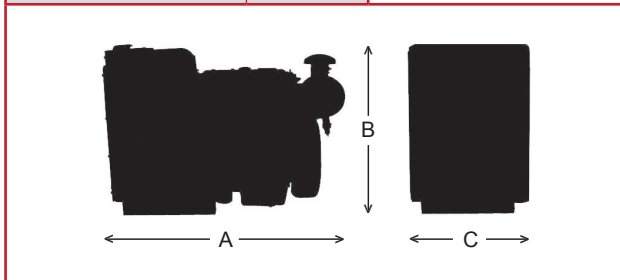
**SIGMA
VARIABLE
SPEED ENGINE**

TECHNICAL DATA

Model		SW 20 - 20
Number of cylinders		3
Firing order (number 1 cylinder is at gear end)		1 2 3
Type of fuel injection		Direct
Aspiration		Natural
Direction of rotation, looking on flywheel		Anti Clockwise
Cylinder bore	mm	91.44
	in	3.60
Stroke	mm	127
	in	5
Total cylinder capacity	litre	2.50
	in ³	152.4
Compression ratio		18.5:1
Rated maximum full-load speed (r/min)		2000
Idling speed (r/min)		750
Oil consumption		Maximum 0.3% of fuel consumption

APPROXIMATE DIMENSIONS AND WEIGHT

Length (A)	mm	953
	in	37.52
Height (B)	mm	827
	in	32.56
Width (C)	mm	647
	in	25.47
Dry Weight	kg	344
	lb	758



A comprehensive range of options allows you to select a specification that matches your requirements. Please ask your Lister Petter distributor (see panel below right).

POWER OUTPUTS TO ISO 3046

		r/min	1000	1500	1800	2000
Variable Speed	Fuel Stop Power	kW	16	24	27.7	28.7
		bhp	21.4	32.2	37.1	38.5

TORQUE TO ISO 3046

		r/min	1000	1500	1800	2000
Variable Speed	Fuel Stop Torque	Nm	152.4	152.8	146.8	137
		lbf ft	112.4	112.7	108.2	101.1

FUEL CONSUMPTION

Fuel Stop Power	r/min	1000	1500	1800	2000
	litre/hr	4.5	6.5	7.6	8.6

RATING DEFINITIONS, TO ISO 3046

ISO Standard Conditions

Barometric pressure	100 kPa
Relative humidity	30%
Ambient temperature at air inlet manifold	25°C

Variable speed: fuel stop power, continuous power (IFN)

The maximum power in kW which an engine is capable of delivering continuously at stated crankshaft speed, with the fuel limited so that the fuel stop power cannot be exceeded. The output ratings apply only to fully run-in engines without radiator, fan or other power absorbing accessories.

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