

SIGMA VARIABLE SPEED ENGINE

SW 25 - 22

Power range: 23.0 - 36.4 kW; 30.8 - 48.8 bhp
Variable speed: 1200 - 2200 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



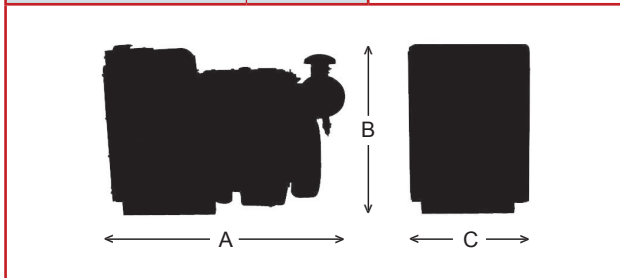
SIGMA VARIABLE SPEED ENGINE

TECHNICAL DATA

Model		SW 25 - 22
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	105
	in	4.13
Stroke	mm	110
	in	4.33
Total cylinder capacity	litre	2.86
	in ³	174.3
Compression ratio		19:1
Rated maximum full-load speed (r/min)		2200
Idling speed (r/min)		700
Oil consumption		Maximum 0.3% of fuel consumption

APPROXIMATE DIMENSIONS AND WEIGHT

Length (A)	mm	1065
	in	41.9
Height (B)	mm	978
	in	38.5
Width (C)	mm	730
	in	28.74
Dry Weight	kg	441
	lb	971



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	1200	1500	1800	2200
Variable Speed	Fuel Stop Power	kW	23.0	29.0	33.0	36.4
		bhp	30.8	38.9	44.2	48.8

TORQUE TO ISO 3046

		r/min	1200	1500	1800	2200
Variable Speed	Fuel Stop Torque	Nm	183	185	175	157
		lbf ft	135	136	129	116

FUEL CONSUMPTION

Fuel Stop Power	r/min	1200	1500	1800	2200
	litre/hr	5.5	7.8	9.3	10.8

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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