

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



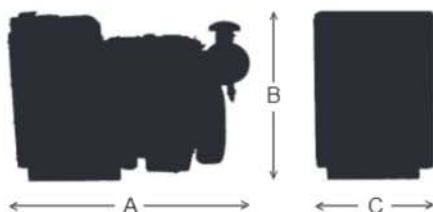
**SIGMA
VARIABLE
SPEED ENGINE**

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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DISTRIBUTOR'S ADDRESS

Lister Petter have made efforts to ensure that the information in this data sheet is accurate but reserve the right to amend specifications and information without notice and without obligation or liability.

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



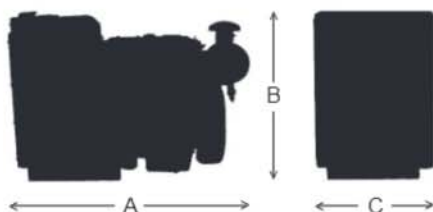
SIGMA VARIABLE SPEED ENGINE

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



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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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SIGMA VARIABLE SPEED ENGINE

SW 30 - 22
Power range: 25.0 - 42.0 kW; 34.0 - 57.1 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

- four 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
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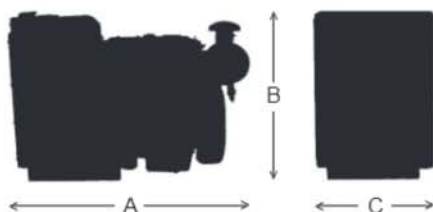
**SIGMA
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SPEED ENGINE**

TECHNICAL DATA

Model		SW 30 - 22
Number of cylinders		4
Firing order (number 1 cylinder is at gear end)		1 3 4 2
Type of fuel injection		Direct
Aspiration		Natural
Direction of rotation, looking on flywheel		Anti Clockwise
Cylinder bore	mm	102
	in	4.02
Stroke	mm	110
	in	4.33
Total cylinder capacity	litre	3.59
	in ³	219.2
Compression ratio		17.4:1
Rated maximum full-load speed (r/min)		2200
Idling speed (r/min)		550
Oil consumption		Maximum 0.3% of fuel consumption

APPROXIMATE DIMENSIONS AND WEIGHT

Length (A)	mm	1198
	in	47.16
Height (B)	mm	982
	in	38.66
Width (C)	mm	730
	in	28.74
Dry Weight	kg	485
	lb	1069.24



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

POWER OUTPUTS TO ISO 3046

		r/min	1200	1500	1800	2200
Variable Speed	Fuel Stop Power	kW	25.5	34.0	37.5	42.0
		bhp	34.7	46.2	51.0	57.1

TORQUE TO ISO 3046

		r/min	1200	1500	1800	2200
Variable Speed	Fuel Stop Torque	Nm	202.8	216.4	198.5	181.7
		lbf ft	149.6	159.6	146.4	134

FUEL CONSUMPTION

Fuel Stop Power	r/min	1200	1500	1800	2200
	litre/hr	6.9	9.5	10.7	12.7

RATING DEFINITIONS, TO ISO 3046

ISO Standard Conditions

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

Variable Speed (Fuel Stop) - Continuous Power (IFN)

The maximum power in kW which the engine is capable of delivering continuously at the stated crankshaft speed, under ISO 3046 standard conditions, and with the provisions specified in item (1) above, but with the fuel limited so that the fuel stop power cannot be exceeded.

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