

SIGMA Series

SW 25 - 22 Engine

Power ranges: 23 - 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
- 12 V electric start
- anticlockwise 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



Technical Data					
Engine family	SW 25				
Number of cylinders	3				
Firing order (number 1 cylinder is end)	132				
Fuel injection	Direct injection				
Aspiration	Natural				
Direction of rotation, looking on f	Anticlockwise				
Nameinal adiaday baya	mm	105			
Nominal cylinder bore	mm in mm	4.13			
Stroke	mm	110			
Stroke	mm in mm in	4.33			
Total aylindar canacity	litre	2.86			
Total cylinder capacity	in ³	174.3			
Compression ratio	19:1				
Rated maximum full-load speed r/min		2200			
Idling speed (minimum)	r/min	700			
Oil consumption	Maximum 0.3% of fuel consumption				

SIGMA Series: Variable Speed Engine Technical Data Sheet

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

Power Outputs to ISO3046						
r/min			1200	1500	1800	2200
Variable speed	Fuel Stop Power	kW	23	29	33	36.4
		bhp	30.8	38.9	44.2	48.8

Torque to ISO3046						
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	5.2	6.6	8.4	9.7	

1. 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.

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

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.



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