



SA6D140-1



SAE J1939 CAN/J1939

SPECIAL FEATURES

High output: The SA6D140-1 diesel engine is a new generation of low-speed marine propulsion system from the experts of computers, achieving energy-saving operation using Komatsu's new marine mode in fuel economy.

High reliability: Based on Komatsu's proven commercial engine design technologies, the SA6D140-1 diesel engine will give a long-life performance with low-cost maintenance and high reliability.

Excellent operation: The diesel engine system and power transmission design of the SA6D140-1 provide smooth operation, low fuel oil consumption at slow and intermediate speeds.

Lightweight and compact design: Advanced design and an efficient lubrication system make Komatsu diesel engine compact and powerful for marine diesel propulsion.

Wide application: A wide range of optional accessories offer a variety of applications to meet all specific customer requirements.

Excellent operation: High-revving torque output with self-boosting technology.

SPECIFICATIONS

Power output

	Model	Output
Maximum	SA6D140	1600 kW
Continuous	SA6D140	1400 kW
Typical	SA6D140	1400 kW

1. 4 stroke cycle engine.

2. Marine operation.

3. Supercharged and aftercooled.

Cylinder arrangement: 6 in line

Bore x stroke: 140 x 140 mm (5.51 x 5.51 in)

Displacement: 10.2 m³ (628 cu in)

Compression ratio: 16.0

Lubrication system: 20 ltr (5.3 US gal)

Water capacity: 10 ltr (2.6 US gal)

Overhaul capacity: 1000 kg (2205 lb)

Dimensions

Length: 1200 mm (47.2 in)

Width: 700 mm (27.6 in)

Height: 1200 mm (47.2 in)





INDUSTRIAL ENGINE

SA6D140-1



SPECIAL FEATURES



High output: The SA6D140-1 diesel engine is a true achievement of the total engine production system from the combined experience of the top-level manufacturing process using Komatsu's own main parts for the cylinder.

High reliability: Based on Komatsu's proven engine technology, every major component, including the SA6D140-1 diesel engine, will benefit from Komatsu's maintenance-free, long and increasing reliability and durability.

Proven design: Features the intermediate cooling and water fuel injection design of the Komatsu's latest diesel engines. Low fuel consumption is also a remarkable advantage.

Lightweight and compact design: Incorporation of an exhaust gas recirculation system helps reduce diesel engine emissions and improve environmental friendliness.

Wide application: A wide range of optional equipment offers a variety of applications for both on- and off-highway construction.

Lowest emissions: Total nitrogen oxides output has decreased to minimum.

SPECIFICATIONS

Performance

	Power	Output
Maximum		
at 2 100 RPM	200 kW	272 HP
Continuous		
at 1 800-2 100 RPM	162 kW	219 HP
Rated		
at 1 800 RPM	162 kW	219 HP
Rated torque	500 N·m	367 lb-ft
Rated speed	1 800 rpm	2 800/min
Stroke	130 mm	5.118 in.
Bore	110 mm	4.331 in.
Compression ratio	17.5:1	
Maximum fuel injection pressure	210 MPa	30 450 psi
Maximum cylinder pressure	12.5 MPa	1 810 psi
Maximum exhaust pressure	0.1 MPa	14.5 psi
Maximum torque	500 N·m	367 lb-ft
Maximum speed	2 100 rpm	2 835/min
Minimum		
Length	1 070 mm	42.13 in.
Width	750 mm	29.53 in.
Height	1 150 mm	45.28 in.

 **KOMATSU**



PERFORMANCE

Performance curve



Efficiency, torque, and full speed torque curves represent an average situation under the ambient conditions of 40°C, 2000 standard.

- Motor type: IM 3
- Output: 2500W
- Full speed torque: 15% IFL at 50%

Notes

1. The motor is designed for 50 Hz AC supply. The motor efficiency is 80% at full load in continuous mode. The average efficiency is approximately 85% under 100% duty cycle in intermittent mode. The average load factor is 0.8 in normal mode.

2. The motor efficiency is 85% at 100% duty cycle in intermittent mode. The average efficiency is approximately 85% under 100% duty cycle in intermittent mode. The average load factor is 0.8 in normal mode. The average efficiency is 85% at 100% duty cycle in intermittent mode. The average efficiency is 85% at 100% duty cycle in intermittent mode. The average efficiency is 85% at 100% duty cycle in intermittent mode.

Note: Motor speed depends on conditions of supply. Motor speed is lower at high ambient temperature. The frequency is standard and different output torque may.

STANDARD EQUIPMENT

- Motor base
- Motor terminal
- Motor capacitor
- Motor winding
- Motor winding (240 V)
- Motor winding
- Motor winding (240 V)
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OPTIONAL EQUIPMENT

- Motor winding
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Standard specifications are subject to change without notice.

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