

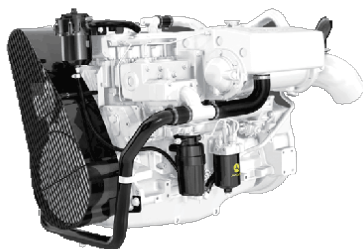
PowerTech™

6068SFM75 Diesel Engine

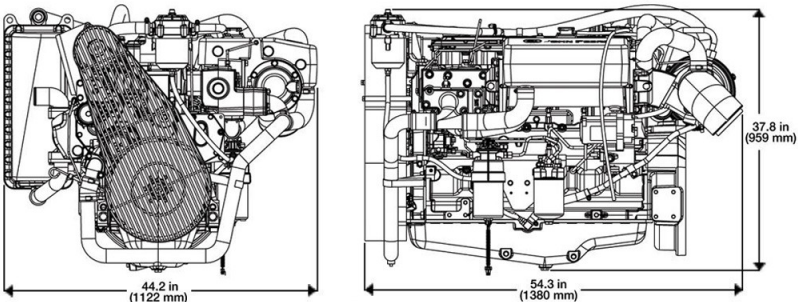
Propulsion Engine Specifications



Dimensions



6068SFM75 shown



Certifications

- EU Stage II
- IMO MARPOL Annex VI
- EPA Commercial Marine (40 CFG Part 94)

General data

| | | | |
|---------------------------|-------------------------|---|------------------------|
| Model | 6068SFM75 | Length - mm (in) | 1380 (54.3) |
| Number of cylinders | 6 | Width - mm (in) | 1122 (44.2) |
| Displacement - L (cu in) | 6.8 (415) | Height, Centerline to Top-- mm. (in) | 661 (26.0) |
| Bore and Stroke-- mm (in) | 106 x 127 (4.17 x 5.00) | Height, Centerline to Bottom-- mm. (in) | 298 (11.7) |
| Compression Ratio | 16.7:1 | Weight, dry-- kg (lb) | 890 (1962) |
| Engine Type | In-line, 4- Cycle | Maximum Installed Angle | Front Up – degrees 9 |
| Aspiration | Air-to-sea water | | Front Down – degrees 0 |

Features and benefits

Watercooled Turbocharger and Exhaust Manifold

- Cooler and quieter environment for vessel and crew

Replaceable Wet-type Cylinder Liners

- Excellent heat dissipation
- Hardened and precision machined for long life
- Rebuild to original specifications

Corrosion Resistant Components

- Provides engine protection from the effects of seawater

Heat Exchanger

- High-capacity heat exchanger designed for reliable operation in adverse conditions

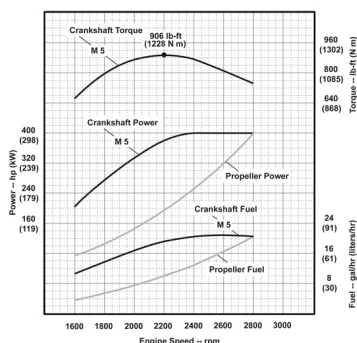
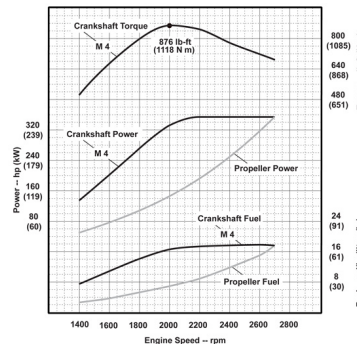
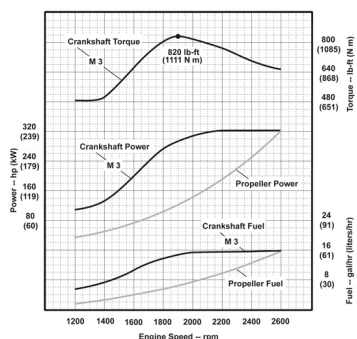
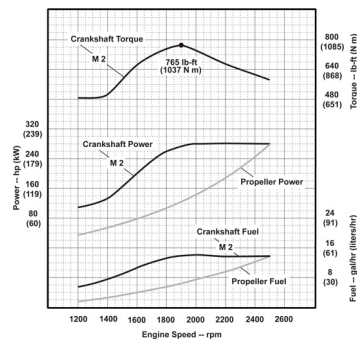
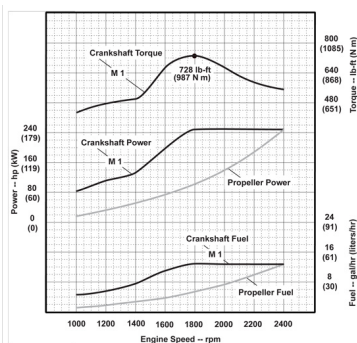
High Torque and Low Rated RPM

- Excellent vessel control and maneuvering
- Lower rated rpm limits vibration and noise for better crew comfort

Fuel System

- Electronically controlled high pressure common rail resulting in excellent fuel economy and excellent performance
- Self diagnostics and protection

Performance curve



| Performance data | M5 | M4 | M3 | M2 | M1 |
|---------------------------------|-------------|-------------|-------------|-------------|-------------|
| Rated Power - kW (hp) | 298 (400) | 265 (355) | 239 (321) | 209 (280) | 186 (249) |
| Rated Speed - rpm | 2800 | 2700 | 2600 | 2500 | 2400 |
| Low Idle Speed - rpm | 600 | 600 | 600 | 600 | 600 |
| Peak Torque - Nm (ft-lb) | 1232 (909) | 1188 (876) | 1111 (819) | 1037 (765) | 987 (728) |
| Peak Torque Speed - rpm | 2200 | 2000 | 1900 | 1900 | 1800 |
| Fuel Consumption - L/h (gal/hr) | 77.4 (20.4) | 66.9 (17.7) | 60.1 (15.9) | 52.4 (13.8) | 47.1 (12.4) |

| M rating | M5 | M4 | M3 | M2 | M1 |
|-----------------------------------|------------------|-----------------|-----------------|------------------|---------------|
| Typical load factor | < =35% | < =40% | < =50% | < =65% | > 65% |
| Typical annual usage (hr) | 300-1,000 hr | 1,000-3,000 hr | 2,000-4,000 hr | 3,000-5,000 hr | Unrestricted |
| Typical full-power operation (hr) | 0.5 of each 8 hr | 1 of each 12 hr | 4 of each 12 hr | 16 of each 24 hr | Uninterrupted |

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*All values at rated speed and power with standard options unless otherwise noted.
Specifications and design subject to change without notice.*