

MARINE ENGINES | INDUSTRIAL | GENERATORS | SOLAR

MARINE Application

4341 SRM87

PLEASURE - Diesel 64 kW(87 HP) @ 3200 rpm (A1)

4000

| SPECIFICATIONS | |
|--|-----------------|
| Thermodynamic Cycle | Diesel 4 stroke |
| Air Handling | TAA |
| Arrangement | 4L |
| Bore x Stroke (mm) | 88 X 90.4 |
| Total Displacement (L) | 2.199 |
| Valves per cylinder (n°) | 2 |
| Cooling System | liquid |
| Direction of Rotation (viewed facing flywheel) | CCW |
| Engine management | mechanical |
| InjectionSystem | MPI |
| | |

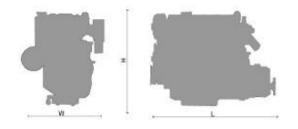
| STANDARD CONFIGURATION | |
|--|---|
| Flywheel housing (type) | SAE |
| Flywheel size (inch) | 7½ |
| Air Filter | dry |
| Turbocharger | - |
| Heat Excharger | tube type |
| Exhaust gas water mixer - Exhaust cooled elbow | stainless steel Ø 75 mm |
| Water charge tank | included |
| Fuel filter (n°) | 1 - rear side |
| Fuel prefilter | - |
| Fuel Pump | included |
| Lift pump | - |
| Oil filter (n°) | 1 - left side |
| Oil sump | pressed steel with corrosion inhibiting treatment |
| Oil vapours blow-by circuit | yes |
| Oil heat exchanger | yes |
| Oil filler | on timing cover frontward |
| Starter | 12V - 2.2kW |
| Alternator | 12V - 65A |
| Engine stop device | electrical excitation |
| Wiring harness | wiring harness and electrical panel |
| Painting color | white "ICE" |



ELECTRICAL SYSTEM Voltage 12

| NOT INCLUDED IN STANDARD CONFIGURATION | |
|--|----|
| Battery - minimum capacity recommended [*] (Ah) | 88 |
| Battery - minimum cold cranking capacity recommended | |
| [*] (A) | - |

WEIGHT AND DIMENSIONS



L = 931 W = 540 H = 642 Dry Weight (without marine gear)= Kg 255

Legend

Arrangement L (in line) Air Handling

TC (Turbocharged) NA (Naturally Aspirated)

TAA (Turbocharged with aftercooler) We

Turbocharger WG (Wastegate) VGT (Variable Geometry Turbocharger) InjectionSystem

M (Mechanical) ECR (Electronic Common Rail) EUI (Electronic Unit Injector) SD: Stern Drive version PD (POD Drive version)

FOR INFORMATION ON THE AVAILABLE RATINGS NOT LISTED IN THIS DOCUMENT PLEASE CONTACT THE FPT INDUSTRIAL SALES NETWORK OR VISIT OUR SITE WWW.FPTINDUSTRIAL.COM





| RATING TYPE | A1 | A2 | В | C |
|--|------------------|----|-------|---|
| Maximum power (kW(HP)@rpm) | 64 (87) @ 3200 | - | - | - |
| High idle speed (rpm) | 3400 | - | - | - |
| Low idle speed (rpm) | ± 850 | | | |
| Mean piston speed at rated speed (m/s) | 9.6 | - | - | - |
| BMEP at max power (kg/cm) | 12.23 | - | - | - |
| Specific fuel consumption at full load (best value) (g/kWh @ rpm) | 252 @ 2000 | - | - | - |
| Oil consumption at max rating (% of fuel cons.) | | | ≤ 0.2 | |
| Minimum starting temperature without auxiliaries (°C) | | | -10 ° | |
| Oil and oil filter maintenance interval for replacement [**] (hours) | | | 250 | |

^{*} Net Power at flywheel according to ISO 3046/1, after 50 hours running, Fuel Diesel EN 590, Power tolerance 5%,

High Performance Crafts. Full throttle operation restricted within 10% of total use period. Cruising speed at engine rpm <90% of rated speed setting - Maximum usage 300 hours per year. Pleasure Commercial Vessels. Full throttle operation restricted within 10% of total use period. Cruising speed at engine rpm <90% of rated speed setting - Maximum usage 1000 hours per year. Light Duy; Full throttle operation restricted within 10% of total vessels at engine rpm <90% of rated speed setting - Maximum usage 1500 hours per year. Medium Duty; Full throttle operation < 25% of use period. Cruising speed at engine rpm <90% of rated speed setting - Maximum usage 3000 hours per year.

FEATURES

FOCS Series - The unit injection pumps, located in the pearlitic grey cast iron cylinder head with the cross flow of the intake and exhaust pipes, allow engine length and weight reduction.CHD Series - The innovative design of the gear train, the injection system design and location and the reducedcylinder pitch allow shortening the engine length.

TECHNOLOGICAL INNOVATION

FOCS Series - The mechanical pump-injector units provide a better injection timing, resulting in great performanceadvantages.CHD Series - The QLC pump offers high performance on all engine speed. Compared to the conventional injectionpump, QLC features a one-way fl ow and a unique delivery fuel system that prevent unwanted variations oninjection pressure and timing, eliminating gas bubbles.

FOCS Series - Excellent results have been obtained as of noise emission reduction, thanks to the location of the injection system in the cylinder head, to a ribbing system along all the engine structure and to the complete absence of gears.CHD Series - The innovative design of the fuel injection system, as well as the use of hypereutectic pistons reducing piston slap and of a heavy-duty block, allow a strong reduction of noise levels that are normally associated withthose of diesel engines. The special crankshaft balancing ensures exceptionally low vibrations and an excellent operational performance.

REDUCED EMISSIONS

FOCS Series - The injection system has been tested for exhaust emission levels to the lowest limits, thuspositioning these engines well below the EEC requirements.CHD Series - The advanced design of the injection and combustion systems results in reduced environmentalimpact.

ACCESSORIES - MAINTENANCE - NETWORK

A wide range of accessories including the sail drive option are available for the 4000 Series.FOCS Series - Components subject to more frequent checking are located in the upper part of the engine, justunder the cover. This allows easy and low cost equipment maintenance.CHD Series - All maintenance operations are easier due to the simple construction of the product. Furthermore,for the QLC pump maintenance the services of a pump specialist are not required, as parts servicing can becompleted by any qualifi ed workshop.

BENEFITS

COMPACTNESS AND LIGHTNESS.

HIGH PERFORMANCE AND EFFICIENCY IN ANY LOAD CONDITION.

EXCELLENT REDUCTION OF NOISE AND VIBRATION LEVELSNAVIGATION CONFORT

REDUCED ENVIRONMENTALIMPACT

SAIL DRIVE AVAILABILITYEASY & ECONOMICAL MAINTENANCEWORLDWIDE SERVICE NETWORK

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FPT INDUSTRIAL OFFERS THE WIDEST AVAILABILITY OF ENGINE BUILD OPTIONS TO CUSTOMER SPECIFIC REQUIREMENTS WITHIN THE ENGINE SUPPLY. TO FIND OUT MORE ABOUT THE CONFIGURATIONS AND ACCESSORIES WHICH ARE AVAILABLE



