

**Rating type A1: 206 kW (280 HP) @ 2800 rpm**  
**Rating type B: 191 kW (260 HP) @ 2800 rpm**  
**Rating type C: 169 kW (230 HP) @ 2800 rpm**  
**Rating type D: 132 kW (180 HP) @ 2500 rpm**

## SPECIFICATIONS

|  |                 |           |
|--|-----------------|-----------|
| Thermodynamic cycle                            | Diesel 4 stroke |           |
| Air Feeding                                    | TCA             |           |
| Cylinders arrangement                          | 6L              |           |
| Bore x Stroke                                  | millimeters     | 104 x 132 |
| Total displacement                             | liters          | 6.7       |
| Valves per cylinder                            | number          | 2         |
| Cooling System                                 | liquid          |           |
| Direction of Rotation (viewed facing flywheel) | CCW             |           |
| Engine management                              | mechanical      |           |
| Injection System                               | MPI             |           |

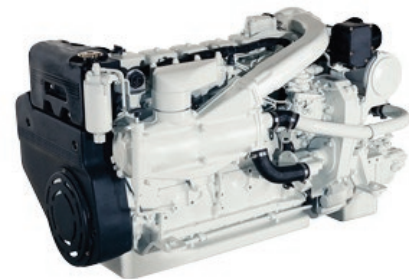
## STANDARD CONFIGURATION

|  |  |                |
|--|--|----------------|
| Flywheel housing                               | type   | SAE 3          |
| Flywheel size                                  | inch   | 11" ½          |
| Air filter                                     | rear side  |                |
| Turbocharger                                   | Fixed Geometry (water cooled) Turbo with Aftercooler (TCA) |                |
| Heat exchanger                                 | tube type  |                |
| Exhaust gas water mixer - Exhaust cooled elbow | -  |                |
| Water charge tank                              | included   |                |
| Fuel filter                                    | number   | 1 - left side  |
| Fuel prefilter                                 | included (loose)   |                |
| Fuel pump                                      | included   |                |
| Oil filter                                     | number   | 1 - right side |
| Oil sump                                       | aluminium  |                |
| Oil vapours blowby circuit                     | rear   |                |
| Oil heat exchanger                             | built in the crankcase                                     |                |
| Oil filler                                     | on timing cover frontward                                  |                |
| Starter  | 12V - 3kW  |                |
| Alternator                                     | 12 V - 90 A  |                |
| Engine stop device                             | electrical excitation                                      |                |
| Wiring harness                                 | engine wiring  |                |
| Painting color                                 | white "ICE"  |                |

## WEIGHT AND DIMENSIONS

|                        |    |                  |
|------------------------|----|------------------|
| Dimensions (L x W x H) | mm | 1072 x 749 x 800 |
| Dry Weight             | Kg | 605              |

DIMENSIONS CAN BE CHANGED ACCORDING TO ENGINE OPTIONS



IMAGES SHOWN ARE FOR ILLUSTRATION PURPOSE ONLY

## ELECTRICAL SYSTEM

|         |   |    |
|---------|---|----|
| Voltage | V | 12 |
|---------|---|----|

## NOT INCLUDED IN STANDARD CONFIGURATION

|  |    |        |
|--|----|--------|
| Battery - minimum capacity recommended               | Ah | 120 Ah |
| Battery - minimum cold cranking capacity recommended | Ah | 900 Ah |

### LEGEND

| Arrangement               | Air Handling                        | Turbocharger                         | Injection System               | Exhaust System                      |
|---------------------------|-------------------------------------|--------------------------------------|--------------------------------|-------------------------------------|
| L (in line)               | TC (Turbocharged)                   | WG (Wastegate)                       | M (Mechanical)                 | EGR (Exhaust Gas Recirculation)     |
| V (90° "V" configuration) | NA (Naturally Aspirated)            | VGT (Variable Geometry Turbocharger) | CR (Common Rail)               | SCR (Selective Catalytic Reduction) |
|                           | TCA (Turbocharged with aftercooler) | TST (Twin Stage Turbocharger)        | EUI (Electronic Unit Injector) |                                     |
|                           |                                     |                                      | MPI (Multi Point Injection)    |                                     |

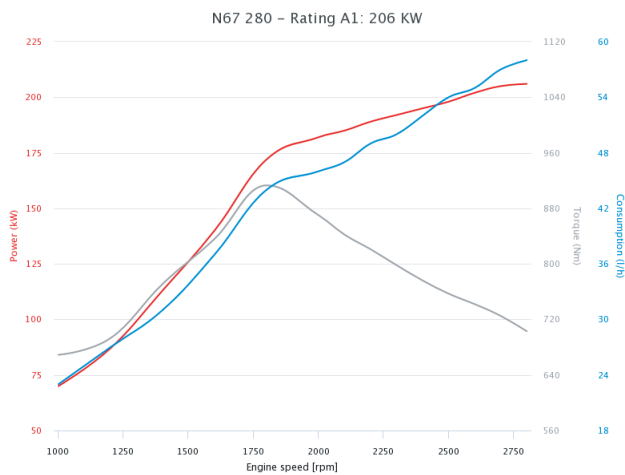
## RATING TYPE

## A1

|   |                   |            |
|---|-------------------|------------|
| Maximum power [*]                                       | kW (HP)           | 206 (280)  |
| At speed  | rpm               | 2800       |
| Maximum no load governed speed at max rating            | rpm               | 3150       |
| Minimum idling speed                                    | rpm               | 650        |
| Mean piston speed at rated speed                        | m/s               | 12.3       |
| BMEP at max power                                       | bar               | 18.2       |
| Specific fuel consumption (best value)                  | g/kWh @ rpm       | 214 @ 2000 |
| IMO Marpol Tier 2 (IMO Annex VI Technical Code 2008)    |                   | ✓          |
| RCD Stage 2 (2013/53/EC)                                |                   | -          |
| IWW Stage V (EU 2016/1628)                              |                   | -          |
| EPA Tier 3 Commercial                                   |                   | -          |
| EPA Tier 3 Recreational                                 |                   | -          |
| China GB I (GB15097-2016)                               |                   | -          |
| China GB II (GB15097-2016)                              |                   | -          |
| Oil consumption at max rating                           | (% of fuel cons.) | = 0.2      |
| Minimum starting temperature without auxiliaries        | °C                | -15°       |
| Oil and oil filter maintenance interval for replacement | hours             | 600        |

\* Net Power at flywheel according to ISO 8665, after 50 hours running, Fuel Diesel EN 590. Power tolerance 5%.

## POWER & TORQUE



### LEGEND

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|                           | TCA (Turbocharged with aftercooler) | TST (Twin Stage Turbocharger)        | EUI (Electronic Unit Injector) |                                     |
|                           |                                     |                                      | MPI (Multi Point Injection)    |                                     |

A1 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.  
A2/B1 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.  
B Light Duty: Full throttle operation restricted within 10% of use period. Cruising speed at engine rpm <90% of rated speed setting - Maximum usage 1500 hours per year.  
C 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.  
D Heavy Duty

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