

3M16G Series Marine Auxiliary Engines technical parameters

| NO. | ITEM | Technical parameters | |
|-----|---|--|------------|
| 1 | Engine model | 3M16G3/F | 3M16G1/F |
| 2 | Engine type | Vertical, In line 3 cylinder and 4 stroke, water cooled | |
| 3 | Intake air system | Natural Aspiration | |
| 4 | combustion type | DI/ ω type | |
| 5 | Cylinder no.- Bore \times Stroke (mm) | 3-88 \times 90 | |
| 6 | Valve per cylinder | 2 | |
| 7 | Displacement (L) | 1.64 | |
| 8 | Compression ratio | 18.2: 1 | |
| 9 | Dry weight kg | 150 | |
| 10 | Dimensions (L \times W \times H) mm | 664 \times 535 \times 675 | |
| 11 | Lubricating system | pressure and splash lubrication | |
| 12 | Start type | Starting motor 12V 1.8kw | |
| 13 | Cooling system | Closed internal circulation pump + external circulation sea water pump heat exchange system | |
| 14 | Speed control system | Mechanical speed regulation | |
| 15 | Alternator | 14V 50A | |
| 16 | FIE system | STANADYNE Rotary pump | |
| 17 | Oil capacity (L) | 6.5 | |
| 18 | Coolant capacity (L) | 4.5 | |
| 19 | Preheat method | Air intake preheating | |
| 20 | Fire order | 1—3—2 | |
| 21 | Crank Rotation | CCW (from flywheel) | |
| 22 | Rated power(kW)/Speed(r/min) | 15/1500 | 24/3000 |
| 23 | Min. fuel consumption (g/kW·h) | \leq 245 | |
| 24 | Oil consumption (g/kW·h) | \leq 0.2 | |
| 25 | Fuel type | Summer: GB 252-2000 or 0#,10# light diesel oil Winter: GB 252-2000 or 0#,-10#,-20#,-35#light diesel oil | |
| 26 | Oil type | Yuchai grade CF-4 | |
| 27 | Governor regulation % | \leq 5 | |
| 28 | The related speed drop range% | \geq 5.5 | |
| 29 | The related speed rise range% | \geq 2.5 | |
| 30 | Steady-state rate volatility % | \leq 0.5 | |
| 31 | (Under the rated speed) Instantaneous speed variation % | 100% Reduce the power suddenly | \leq +10 |
| 32 | | Increase the power suddenly | \leq -7 |
| 33 | Speed recovery time (S) | \leq 3 | |
| 34 | Maximum allowable inlet resistance(kPa) | 2.1 | |
| 35 | Maximum allowable exhaust pressure(kPa) | 7.2 | |
| 36 | Smoke intensity of standard operating condition FSN | \leq 3.5 | |
| 37 | System voltage (V) | 12 | |
| 38 | Emission level | Non Regulated | |