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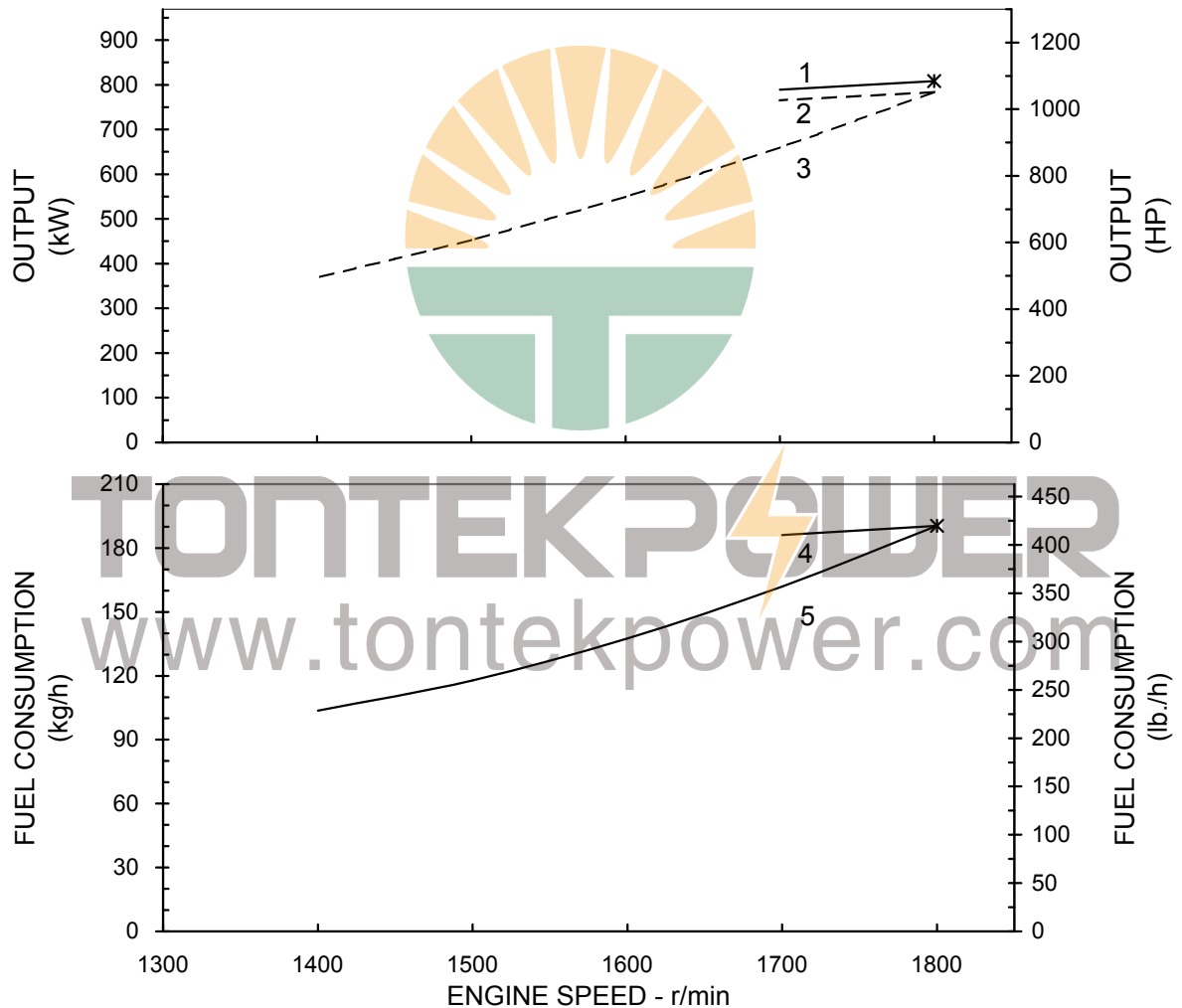
Engine Model
KTA38-M2

Advertised Power: **895kW [1200HP] @1800 r/min**

Displacement: **38L [2300 in.³]**
Bore: **159mm [6.25 in.]**
Stroke: **159mm [6.25 in.]**
Fuel System: **PT**
Cylinders: **12**

Aspiration: **Turbocharged/Aftercooled**
Rating Type: **Continuous**

CERTIFIED: This marine diesel engine complies with or is certified to the:
IMO-NOx requirements of the International Maritime Organization (IMO), MARPOL 73/78 Annex VI, Regulation 13



Rating Conditions: Ratings are based upon ISO 8665 and SAE J1228 reference conditions; air pressure of 100kPa [29.612 in.Hg] air temperature 25°C [77°F] and 30% relative humidity. Power is rated in accordance with IMCI

Fuel consumption is based on fuel of 35° API gravity at 16°C (60°F) having LHV of 42,780 kJ/kg (18,390 Btu/lb) and weighing 838.9 g/liter (7.001 lb/U.S.gal).

Propeller Shaft Power represents the net power available after typical reverse/reduction gear losses and is 97% of rated power.

1. Brake power

4. Fuel Consumption for Brake and Shaft power.

2. Shaft power with Reverse / Reduction Gear

5. Fuel Consumption for Typical Propeller.

3. Typical Propeller Power Curve (3.0 exponent)

Continuous Rating: This power rating is intended for continuous use in applications requiring uninterrupted service at full power. This rating is an ISO3046 Standard Power Rating.



General Engine Data

Engine Model.....	KTA38-M2
Rating Type	Continuous
Rated Engine Power..... hp [kW]	1200 [895]
Rated Engine Speed..... rpm	1800
Peak Engine Torque @ 1500 rpm..... lb. · ft. [N · m]	3842 [5210]
Brake Mean Effective Pressure..... psi [kPa]	228 [1570]
Minimum Idle Speed Setting..... rpm	625-675
Normal Idle Speed Variation..... ±rpm	25
High Idle Speed Range Minimum..... rpm	1815
Maximum..... rpm	2016
Aspiration	Turbocharged/Aftercooled
Compression Ratio	13.9:1
Piston Speed..... ft/min [m/sec]	1870 [9.5]
Weight (Dry) - Engine Only - Average.....lb. [kg]	9291 [4218]
Weight (Dry) - Engine With HeatexchangerSystem - Average.....lb. [kg]	9996 [4538]
Installation Diagram No.....	4061365

Fuel System¹

Fuel Consumption at Rated Speed..... gal/hr [l/hr]	59 [224]
Approximate Fuel Flow to Pump..... gal/hr [l/hr]	105 [397]
Maximum Allowable Fuel Supply to Pump Temperature..... ° F [° C]	140 [60]
Approximate Fuel Return to Tank Temperature..... ° F [° C]	154 [68]
Maximum Heat Rejection to Drain Fuel..... BTU/min [kW]	171 [3]
Fuel Pressure - Pump Out / Rail Mechanical Gauge..... psi [kPa]	122.0 [841]

Air System¹

Intake Manifold Pressure..... in. Hg [kPa]	54 [183]
Intake Air Flow..... cfm [l/sce]	2599 [1227]
Heat Rejection to Ambient..... BTU/min [kW]	4440 [78]

Exhaust System¹

Exhaust Gas Flow..... cfm [l/sec]	6290 [2970]
Exhaust Gas Temperature (Turbine Out)..... ° F [° C]	849 [454]
Exhaust Gas Temperature (Manifold)..... ° F [° C]	N.A.

Cooling System¹

Sea Water Pump Specifications.....	MAB 0.08.17-07/16/2001
Pressure Cap Rating (With Heat Exchanger Option)..... psi [kPa]	7 [50]

Engines without Low Temperature Aftercooler (LTA)

Jacket Water Aftercooled Engine (JWAC)

Coolant Flow to Engine Heat Exchanger..... gal/min [l/min]	335 [1268]
Standard Thermostat Operating Range (Start to Open)..... ° F [° C]	180 [82]
Standard Thermostat Operating Range (Full Open)..... ° F [° C]	203 [95]
Heat Rejection to Engine Coolant ² BTU/min [kW]	32046 [563]

TBD = To Be Determined

N/A = Not Applicable

N.A. = Not Available

1. All Data at Rated Conditions.

2. Consult Installation Direction Booklet for Limitations.

3. Heat rejection to coolant values are based on 50% water/50% ethylene glycol mix.

4. Consult option notes for flow specifications of optional Cummins seawater pumps (if applicable).

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