

RUN HARD. DREAM BIG.™



# KTA19-M3

M A R I N E

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## ENGINE SPECIFICATIONS

Configuration	In-line 6 Cylinder, 4-Stroke Diesel
Bore & Stroke	159 mm x 159 mm (6.25 in x 6.25 in)
Displacement	19 L (1150 in <sup>3</sup> )
Compression Ratio	13.8:1
Rotation	Counterclockwise facing flywheel
Oil Pan Capacity	38 L (10 gallons) Standard Capacity 72 L (19 gallons) High Capacity

## POWER RATINGS

Rating	Continuous Duty*			Heavy Duty*
	1800	1800	1800	
Rated RPM	1800	1800	1800	1800
kW (BHP)	373 (500)	395 (530)	447 (600)	477 (640)
Max Torque N·m (ft·lb) RPM	4187 (3089) 1400	2291 (1690) 1400	2645 (1951) 1400	2712 (2000) 1400

\*Ratings are IMO emissions compliant.

## STANDARD FEATURES

### Engine Design

Rugged in-line six cylinder configuration. Four cycle design for quiet, fuel efficient operation. Replaceable wet cylinder liners for longer life and lower rebuild costs. Individual, 4 valve design cylinder heads for improved economy and performance. Oil cooled pistons for added durability.

### Cooling System

Keel cooled or engine mounted heat exchanger system available. Spin-on Fleetguard® water treatment filters for protection against cooling system corrosion.

### Air System

Top mounted Holset turbocharger with forward facing exhaust connection, optimized for marine usage. Marine grade air cleaner with air inlet restriction indicator. Cast iron water cooled exhaust manifold.

### Fuel System

Dependable Cummins PT® fuel system can be operated mechanically or with CENTRY electronics for enhanced engine fueling. Dual spin-on Fleetguard® fuel filters. Premium

fuel injectors utilize ceramic components for reduced wear.

### Lubrication System

Marine grade cast aluminum lube oil pan (72 L [19 gal]) Fleetguard® spin-on oil filters for simplified service. Integrated Marine gear oil cooler options available.

### Electrical System

24 volt standard electrical system with 12 and 32 volt options available. Marine grade wiring harness. Engine alarms/switches for low oil pressure and high water temperature for safe operation.

### IMO Emissions Certified

Certificates of compliance are available from the U.S. EPA and Lloyd's Register of Shipping.

## AVAILABLE ACCESSORIES

### Front Power Take-Off

### Belt or Gear Driven Accessory Drives

**Pre-lub Starter** protects engine against damage from dry starts

### Flywheel Housing SAE 0

**Classification Society Approvals:** consult your local Cummins professional for a complete listing of current marine agency approvals for this engine.

# KTA19-M3

M A R I N E

373 - 477 KW

500 - 640 HP



## ENGINE DIMENSIONS

Length		Width		Height		Weight	
mm	in	mm	in	mm	in	kg	lb
1820.7	71.68	1003.3	39.50	1904.5	74.98	2073	4570

Weights and dimensions do not include marine gear.

## PERFORMANCE DATA

Rating	Continuous Duty 500 bhp*				Continuous Duty 530 bhp*			
rpm	1800	1600	1400	1200	1800	1600	1400	1200
kW	373	272	189	125	395	288	201	132
g/kW-hr	208	208	208	213	207	208	207	208
L/hr	92.7	67.5	46.9	31.8	97.6	71.5	49.7	33.8

bhp	500	364	254	167	530	386	269	177
lb/hp-hr	.343	.342	.342	.352	.341	.343	.341	.352
gal/hr	24.5	17.8	12.4	8.4	25.8	18.9	13.1	8.9

Rating	Continuous Duty 600 bhp*				Heavy Duty 640 bhp*			
rpm	1800	1600	1400	1200	1800	1600	1400	1200
kW	448	315	210	133	477	345	243	156
g/kW-hr	207	213	213	219	212	214	224	223
L/hr	108.3	79.9	53.2	34.7	120.8	87.9	65.0	41.5

bhp	600	422	282	178	640	462	326	209
lb/hp-hr	.334	.350	.350	.362	.349	.352	.369	.368
gal/hr	28.6	21.1	14.1	9.2	31.9	23.2	17.2	11.0

\*Ratings are IMO emissions compliant.

Above data represents performance along a 3.0 fixed pitch propeller curve. Fuel consumption has a tolerance of +5% and is based on fuel of 35° API gravity at 16 °C (60 °F) having an LHV of 42, 780 KJ/KG (18,390 BTU/lb) when used at 29 °C (85 °F) and weighing 838.9 g/liter (7.001 lb/US gal). Observed horsepower is certified within ± 3 % of rated horsepower. Cummins has always been a pioneer in product improvement. Thus specifications may change without notice. Consult your local Cummins professional for further information.

### Rating Definitions

Ratings are based on ISO 8665 conditions of 100kPa(29.612 in Hg) and 25 °C (77 °F) and 30% relative humidity. Propeller shaft power represents the net power available after typical gear losses and is 97% of rated power. Power rated in accordance with IMCI procedures.

### Heavy Duty

Intended for continuous use in variable load applications where full power is limited to eight hours out of every ten hours of operation. Also, reduced power operations must be at or below 200 rpm of the maximum rated rpm. This rating is an ISO 3046 fuel stop power rating and is for applications that operate less than 5,000 hours per year.

### Continuous

Intended for continuous use in applications requiring uninterrupted service at full power. This rating is an ISO 3046 standard power rating.



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