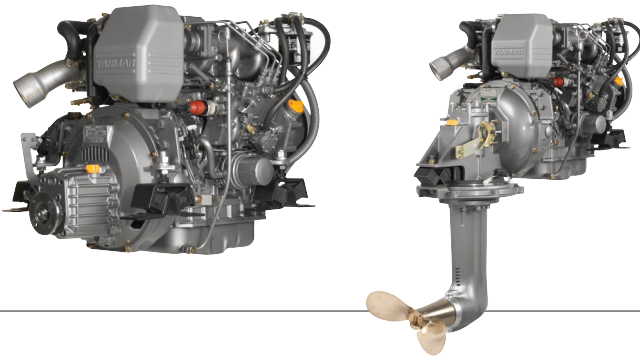


Yanmar type 3JH4E



Configuration	4-stroke, vertical, water cooled diesel engine
Maximum output at crankshaft	* 29.4 kW (40 mhp) / 3000 rpm ** 28.7 kW (39 mhp) / 3000 rpm
Continuous rating output at crankshaft	26.7 kW (36.3 mhp) / 2907 rpm
Displacement	1.640 L (100 cu in)
Bore x stroke	88 mm x 90 mm (3.46 in x 3.54 in)
Cylinders	3
Combustion system	Direct injection
Aspiration	Natural aspiration
Starting system	Electric starting 12 V - 1.4 kW
Alternator	12 V - 80 A
Cooling system	Fresh water cooling by centrifugal fresh water pump and rubber impeller sea water pump
Lubrication system	Enclosed, forced lubricating system
Direction of rotation (crankshaft)	Counter clockwise viewed from flywheel side
Dry weight without gear	173 kg (381 lbs)
Environmental	EU RCD, US EPA Tier2, BSO II & EMC
Engine mounting	Rubber type flexible mounting

NOTE: Fuel condition: Density at 15°C = 0.84 g/cm³; 1 mhp = 1PS = 0.7355 kW = 0.9863 bhp

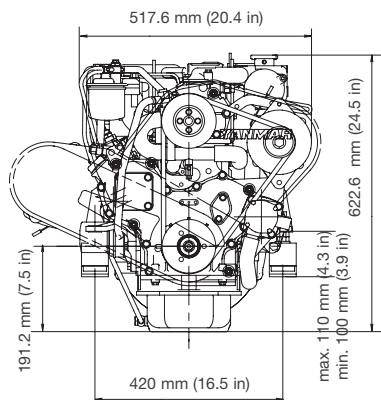
* Fuel temperature 25°C at the inlet of the fuel injection pump (ISO 3046-1)

** Fuel temperature 40°C at the inlet of the fuel injection pump (ISO 8665)

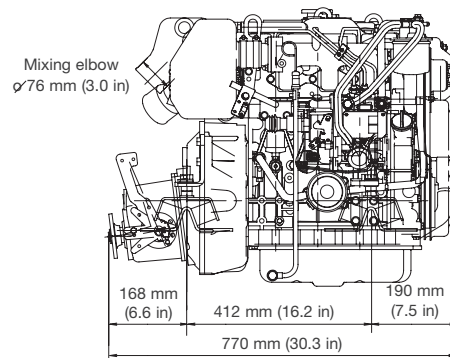
Technical data is according to ISO 8665 / 3046

Dimensions (For detailed line-drawings, please refer to our web-site: www.yanmarmarine.com)

Front view

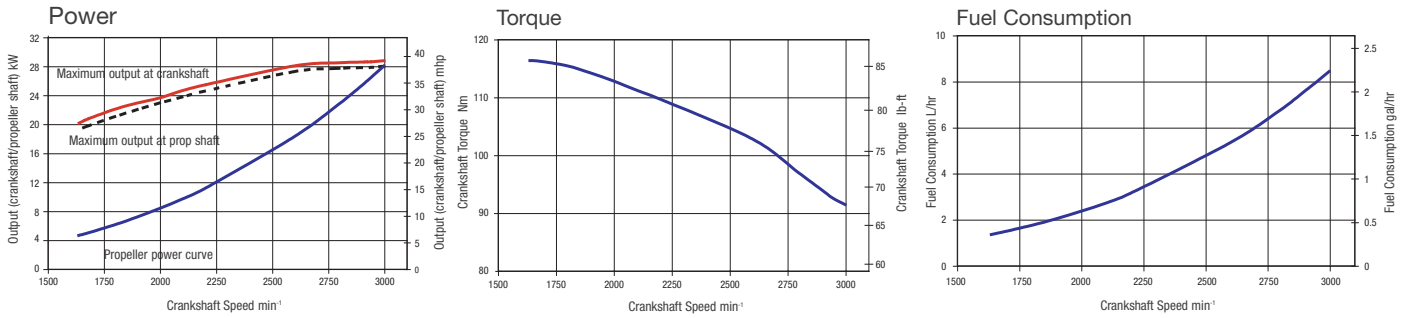


Right side view



3JH4E with KM35A marine gear

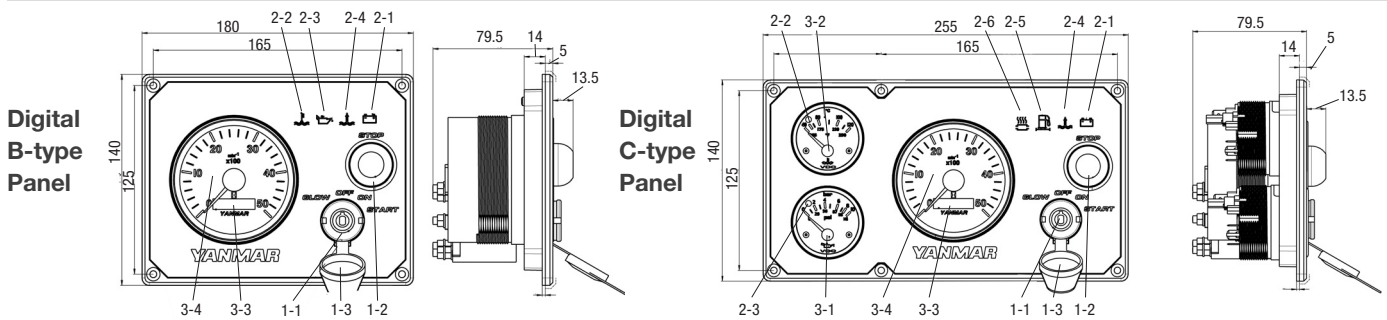
Performance Curves (Output is according ISO 8665)



Marine Gears/Drive

Model	KM35P		KM35A (down angle: 7°)		Saildrive (SD50)
Type	Mechanical cone clutch		Mechanical cone clutch		Mechanical cone clutch
Dry weight	12 kg (27 lbs)		13 kg (29 lbs)		40 kg (88 lbs)
Reduction ratio (fwd/asn)	2.36/3.16	2.61/3.16	2.33/3.04	2.64/3.04	2.32/2.32
Propeller speed(fwd/asn)	1271/949	1149/949	1288/987	1136/987	1293/1293
Direction of rotation (propeller shaft - fwd)	Clockwise viewed from flywheel side		Clockwise viewed from flywheel side		Clockwise & counter clockwise viewed from flywheel side
Dry weight engine and gear/drive	185 kg (408 lbs)		186 kg (410 lbs)		213 kg (470 lbs)
Length engine and gear/drive	777 mm (31 in)		776 mm (31 in)		973 mm (38 in)

Instrument Panels



Function	Type of instrument panel	
	Digital B-type Panel	Digital C-type Panel
① Switch unit		
1-1 Key switch for GLOW/OFF/ON/START (4-position switch)	O	O
1-2 Push button switch for engine stop	O	O
1-3 Moisture cap for key switch	O	O
② Alarm lamp unit		
2-1 Battery low charge alarm	O	O
2-2 Coolant high temperature alarm	O	O
2-3 Lubricating oil low pressure	O	O
2-4 Water in sail drive seal alarm	O	O
2-5 Water in fuel filter alarm	X	O*
2-6 Sea water insufficient flow alarm	X	O*
③ Meters		
3-1 Lubricating oil pressure meter	X	O
3-2 Coolant temperature meter	X	O
3-3 Hour meter	O	O
3-4 Tachometer	O	O
④ Audible alarm buzzer	O	O

Note: O = Equipped on panel X = Not equipped on panel *function not available for 3JH4E natural aspiration engines

Accessories

Standard Package

- Set of flexible mounts
- Exhaust mixing elbow (L-type)
- V-belt safety cover
- Expansion tank for fresh water cooling system
- Alternator 12 V - 80 A
- Electric stop solenoid

Optional

- Digital B or C type instrument panel
- Second Alternator 12V80, 12V130A or 24V75A
- High riser mixing Elbow U-type (instead of L-type)
- 4M, 6M, 10M Extension Wire harness
- Hot water kit with or without cocks

Texts and illustrations are not binding. Yanmar Marine reserves the right to introduce adaptations without prior notification.

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