



3JH5E

MARINE DIESEL ENGINES



Max. output at crankshaft*82.7 kW3000 rpm[9 mhp3000 rpm]No. of cylinders3cylinderDisplacement1.642 L[100 cu ir]Bor a stroke88 mm x 90 mm[3.46 in x 3.54 ir]AspirationNatural[3.46 in x 3.54 ir]Combustion systemDirect injection, mono plunger purput[Starting system]Starting systemBectric starting 12V - 1.4 kW[Starting system]Colling systemMechanical[Starting system]Colling systemMechanical[Starting system]Aternator12V - 125A[Starting system]Librication system12V - 125A[Starting system]Discle in performantiation12V - 125A[Starting system]Ingine lube oil specificationsAll catecolority businer system][Starting system]Direction of rotation at crankshaftConterclockwise (CCW) wiewer][Starting System]Direction of rotation at crankshaft73 kg[Starting Size Size Size Size Size Size Size Size	Configuration	In-line, 4-stroke, vertical, water-cooled diesel engine	
Displacement1.642 L[100 cu in]Bore x stroke88 mm x 90 mm[3.46 in x 3.54 in]AspirationNatural	Max. output at crankshaft*	28.7 kW@3000 rpm	[39 mhp@3000 rpm]
Bore x stroke 88 mm x 90 mm [3.46 in x 3.54 in] Aspiration Natural Combustion system Direct injection, mono plunger pump Starting system Electric starting 12V - 1.4 kW Engine management Mechanical Cooling system Mechanical Cooling system Fresh water cooling by centrifugal fresh water pump seawater cooling by rubber impeller seawater pump Alternator 12V - 125A Lubrication system Enclosed, forced lubricating system Engine lube oil specifications API class: CD or higher, SAE grade: 10W-30 or 15W-40 Direction of rotation at crankshaft Counterclockwise (CCW) viewed Furst Pny weight without gear 173 kg [381 lbs] Engine dimensions' L x W x H 776 x 560 x 623 mm Step ATier 2 Flywheel housing size EU: RCD 2, BSO II, EMC US: EPA Tier 2	No. of cylinders	3 cylinder	
Aspiration Natural Natural Direct injection, mono plunger purportation System Direct injection, mono plunger purportation System Electric starting 12V - 1.4 kW Electric starting 12V - 1	Displacement	1.642 L	[100 cu in]
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Emission complianceEU: RCD 2, BSO II, EMCUS: EPA Tier 2Flywheel housing sizeSAE #5	Dry weight without gear	173 kg [38	31 lbs]
Flywheel housing size SAE #5	Engine dimensions ^{\dagger} L x W x H	776 x 560 x 623 mm	
	Emission compliance	EU: RCD 2, BSO II, EMC	US: EPA Tier 2
Controlo	Flywheel housing size	SAE #5	
Controls Mechanical	Controls	Mechanical	

NOTE:

Fuel condition: Density at $15^\circ C$ = 0.84 g/cm³; 1 kW = 1.3596 mhp = 1.3410 HP

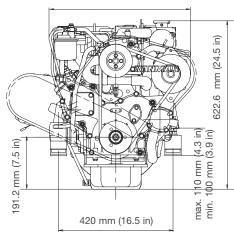
Technical data is according to (ISO 8665) / (ISO 3046)

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

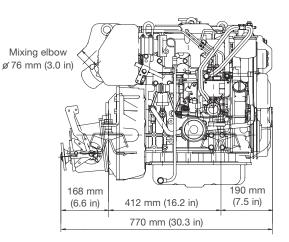
+Length includes KM35A marine gear (Dimensions may vary with other gears/elbow)

DIMENSIONS





Right side view



3JH5E with KM35A marine gear

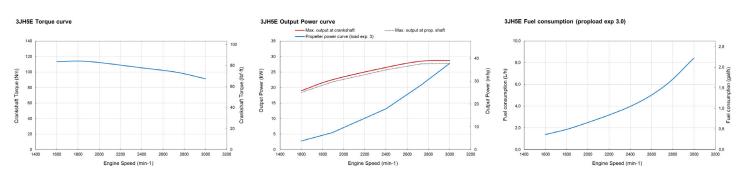
(Not to be used for engine installation)

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PERFORMANCE CURVES

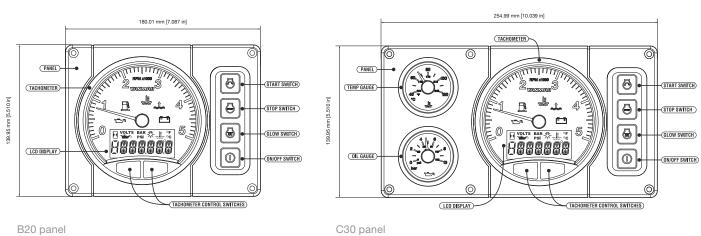


MARINE GEAR / DRIVE*

Model	KM35P	KM35A [down angle: 7°]	Saildrive [SD60]
Clutch type	Mechanical cone clutch	Mechanical cone clutch	Mechanical multi-disc clutch
Dry weight	12 kg [26 lbs]	13 kg [29 lbs]	44 kg [97 lbs]
Reduction ratio [fwd/asn]	2.36/3.16 2.61/3.16	2.33/3.04 2.64/3.04	2.23/2.23 2.49/2.49
Direction of rotation [viewed from stern]	Clockwise	Clockwise	Clockwise & counter clockwise
Lubrication system	Splash lubrication	Splash lubrication	Splash lubrication
Lube oil specifications	API class: CD or higher, SAE grade: #20 or #30	API class: CD or higher, SAE grade: #20 or #30	API class: CD or higher, SAE grade: 15W-40
Max. lube oil capacity	0.5 L	0.65 L	2.8 L
Dry weight - engine & gear/drive	185 kg [408 lbs]	186 kg [410 lbs]	217 kg [478 lbs]

* Other marine gearboxes and configurations available upon request. Contact your local supplier for more information

INSTRUMENT PANELS



B20 panel

ACCESSORIES

Standard engine package

- Exhaust mixing elbow [L-type]
- Alternator 12V 125A
- B20 panel
- Flexible mounts
- Expansion tank for fresh water cooling system
- Electric stop solenoid
- · Belt safety cover

Optional accessories

- High-riser mixing elbow [instead of L-elbow]
- Secondary alternator 12V 130A or 24V 75A
- including smart regulator
- C30 panel
- Extension wire harness [4m, 6m 10m]
- Dual harness [for 2nd station]
- TFX Sidemount control head

- Hot water kit with cocks
- Extension saildrive leg [75 mm]
- Propeller cone nut kit SD60
- On-board spare parts kit

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