



Diesel Engines 12V 4000 M93/M93L

For Fast Vessels with Low Load
Factors (1DS)

Engine Type	16V 4000 M93	
Rated power ICFN	3120 kW	4185 bhp
Speed	2100 rpm	
Number of cylinders	16	
Bore mm - in	170 mm	6.7 in
Stroke mm - in	190 mm	7,5 in
Displacement, total l : cu - in	69.0 cu	4211 in
Flywheel housing	SAE 00	
Gearbox type **	ZF 9000	
Optimization of exhaust emissions *	IMO II/EPA 2	
Fuel consumption at rated power	224 g/kWh	
	842.0 l/h	
	222.5 gal/h	

** Gearbox variants "Down Angle A" and "V-Drive" available on request

Engine Dimensions

16V 4000 M93

Dimensions (L x W x H) mm - in	3480 x 1465 x 2450 mm	137.0 x 57.7 x 96.5 in
Dry weight kg - lbs	9600 kg	21164 lbs

16V4000 M93 with gearbox type

Dimensions (L x W x H) mm - in	4645 x 1465 x 2605 mm	182.9 x 57.7 x 102.6 in
Dry weight kg - lbs	11085 kg	24438 lbs

Engine Type

Engine Type	16V 4000 M93L	
Rated power ICFN	3440 kW	4615 bhp
Speed	2100 rpm	
Number of cylinders	16	
Bore mm - in	170 mm	6.7 in
Stroke mm - in	190 mm	7.5 in
Displacement, total l : cu - in	69.0 cu	4211 in
Flywheel housing	SAE 00	
Gearbox type **	ZF 9050	
Optimization of exhaust emissions *	IMO II/EPA 2	

Fuel consumption at rated power 230 g/kWh
953.3 l/h
251.9 gal/h

** Gearbox variants "Down Angle A" and "V-Drive" available on request

Engine dimensions

16V4000 M93L

Dimensions (L x W x H) mm - in	3480 x 1465 x 2450 mm	137.0 x 57.7 x 96.5 in
Dry weight kg - lbs	9600 kg	21164 lbs

16V4000 M93L with gearbox type

Dimensions (L x W x H) mm - in	4645 x 1465 x 2605 mm	182.9 x 57.7 x 102.6 in
Dry weight kg - lbs	10985 kg	24218 lbs

* IMO – International Maritime Organisation, EPA – US Marine Directive 40 CFR 94

Website: www.pps-bv.nl