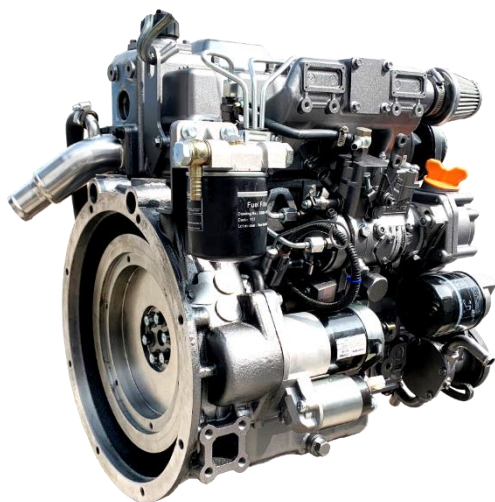


Marine Application



General Engine Data

Family name	3C11
Type	Vertical In-line, Water Cooled, diesel Four Stroke
Combustion System	Indirect Injection
Cylinder NO.	3
Bore x Stroke	76 mm x 78.4 mm
Displacement	1.07 litres
Compression Ratio	24 : 1
Induction System	naturally aspirated
Firing Order	1 - 2 - 3
Flywheel (inch)	6.5"
Flywheel Housing	SAE #5
Emission Level	RCD II – for propulsion application Stage IIIA – for auxiliary application

Propulsion Performance

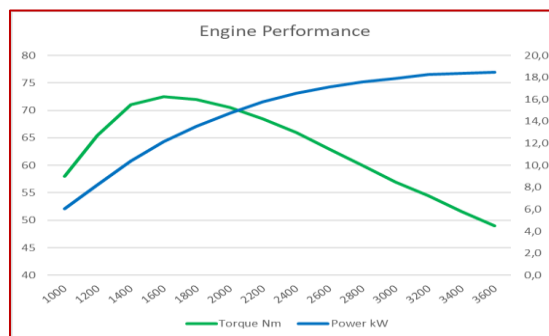
Raywin Engine Power

Model	Max Power (*) @ engine speed (kW / rpm)
3C1101	18.5 @ 3600

Note: Oil consumption (% fuel): ≤ 0.1

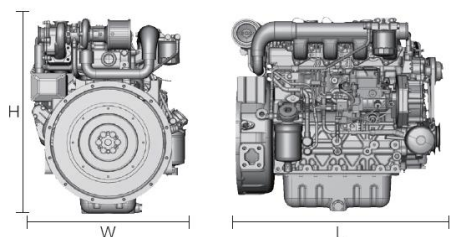
(*): Net power at flywheel according to ISO 8665 after 50 hours running, fuel diesel EN 590

Test conditions: 25°C air temperature, 100kPa atmospheric pressure, 30% relative humidity



Auxiliary Performance @ 1500 / 1800 rpm (50 / 60 Hz) – cos-fi 0,8

Raywin Engine Power				Gensets Power				
Model	Prime	Standby	Engine Speed (rpm)	Assumed Alternator Efficiency	Prime		Standby	
	(kWm)	(kWm)			kW	kVA	kW	kVA
3C11G3/A	9.1	10.0	1500	0.83	7.6	9.5	8.3	10.4
3C11G2/A	10.1	11.1	1800		8.4	10.5	9.2	11.5



Installation Information: Engine Dimension & Weight

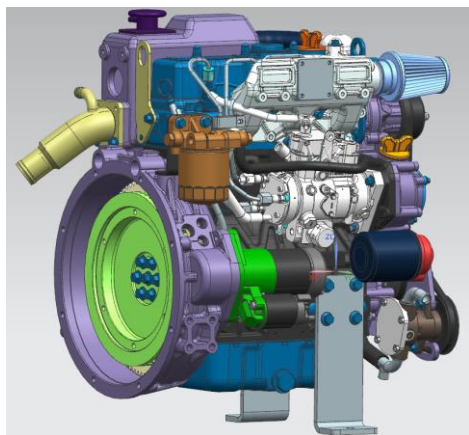
Family Name	Weight (kg)	Dimensions (mm)		
		L	W	H
3C11	115	520	504	560

Marine Application

Raywin Engine Scope of Supply

Auxiliary & Propulsion application

Rigid Supports, Heat Exchanger W/W mounted, double V-belts, Pulleys & belts guards, water cooled exhaust manifold, raw water pump, air filter, SAE#5/6,5 inch, HWT alarm & sensor, LOP alarm & sensor, oil filter, fuel filter, fuel pre-filter, 12V electric system, electrical feed pump (*loose*), RAL 7047; wet exhaust elbow (*standard for propulsion application*)



Raywin Engine Features

Startability & Operating Temperatures

Unaided Starting	-10°C
Aided Starting	-30°C
Ambient operating temperatures	-30°-45°C
Options: Solutions for more than 45°C and below -30°C	

Raywin Engine Features

Easy Service Features

Same side maintenance: Oil, Fuel and Air filter are on the same side	
Fuel filter change interval (hr)	250 or each 12 months
Oil filter change interval (hr)	250 or each 12 months
Alternator belt replacement (hr)	800 or each 24 months
Coolant change (months)	24



Note: As per technology improvements, the above parameters will continue to evolve in accordance to new legislations. The information in this brochure may be changed or upgraded without prior notice