

ZF W3355

Vertical offset, direct mount marine transmission.

Description

- Robust design also withstands continuous duty in workboat applications .
- Fully works tested, reliable and simple to install .
- Design, manufacture and quality control standards comply with ISO 9001 .
- Reverse reduction marine transmission with hydraulically actuated multi-disc clutches .
- Compatible with all types of engines and propulsion systems .

Features

- Case hardened and precisely ground gear teeth for long life and smooth running .
- Output shaft thrust bearing designed to take maximum propeller thrust astern and ahead .
- Smooth and reliable hydraulic shifting with control lever for attachment of push-pull cable or other operating system .
- Suitable for twin engine installations (same ratio and torque capacity in ahead or astern mode) .
- Emergency "get home" capability .
- Robust cast iron casing .
- Free standing .
- Oil cooler complete with fittings and flexible hoses .
- Separated brackets .

Options

- Engine-matched torsional coupling .
- Propeller shaft flange and coupling bolt sets .
- Mounting brackets .
- SAE 1 or SAE 0 bell housings .
- Trolling valve for slow-speed drive .
- Electric clutch control (24 VDC) .
- Trailing pump .
- U-drive version also available .

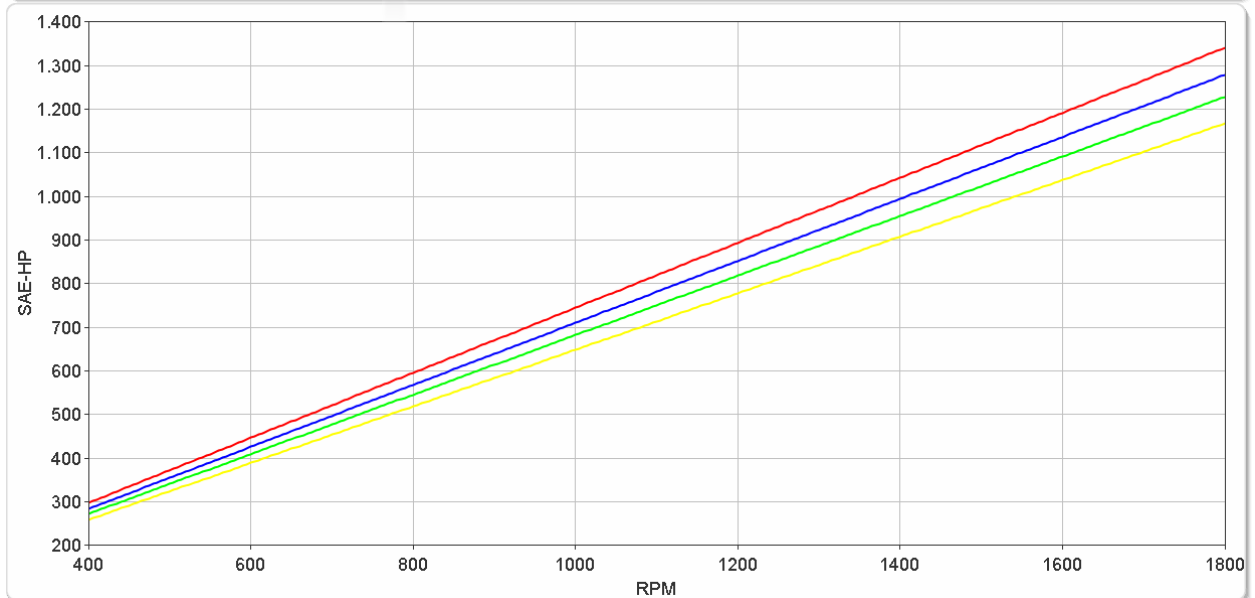
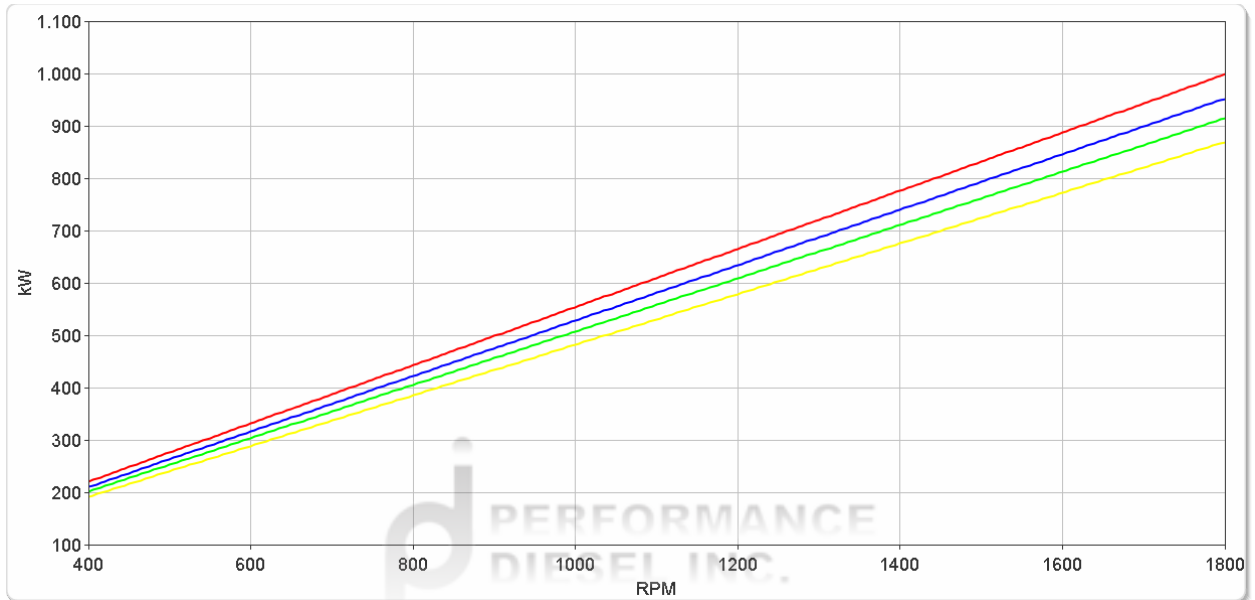
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Ratings

Continuous Duty

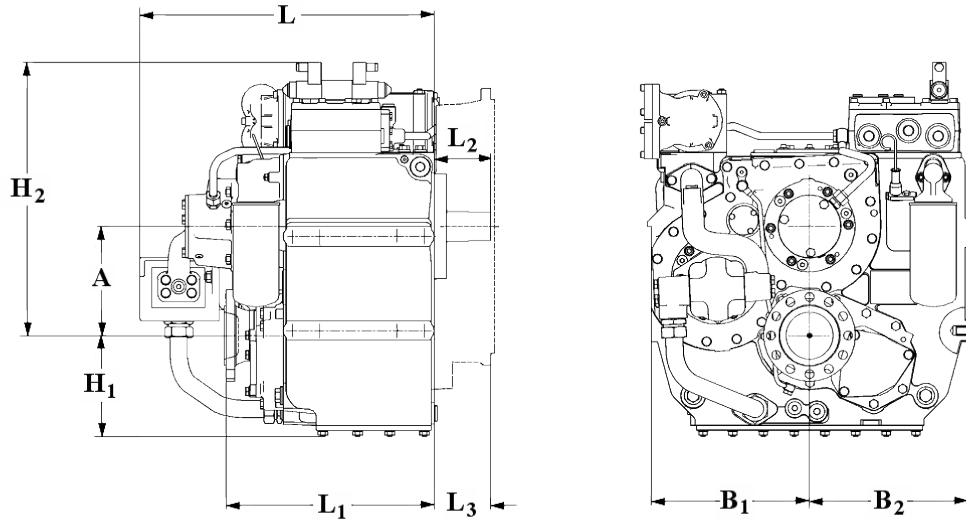
RATIOS	MAX. TORQUE		POWER/RPM		INPUT POWER CAPACITY						MAX. RPM
	Nm	ftlb	kW	hp	1200 rpm		1600 rpm		1800 rpm		
3.519*, 4.000	5306	3914	0.5556	0.7451	667	894	889	1192	1000	1341	1800
4.478	5060	3732	0.5298	0.7105	636	853	848	1137	954	1279	1800
4.727*	4860	3585	0.5089	0.6824	611	819	814	1092	916	1228	1800
5.000	4620	3408	0.4838	0.6487	581	778	774	1038	871	1168	1800

* Special Order Ratio.



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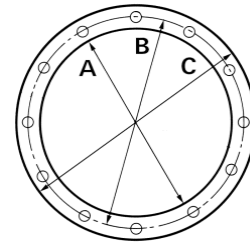
Dimensions



mm (inches)										Bell Hsg.
A	B ₁	B ₂	H ₁	H ₂	L	L ₁	L ₂	L ₃		
385 (15.2)	375 (14.8)	375 (14.8)	345 (13.6)	722 (28.4)	670 (26.4)	595 (23.4)	132 (5.20)	150 (5.90)		
Weight kg (lb)					Oil Capacity Litre (US qt)					
855 (1,881)					36.0 (38.2)					

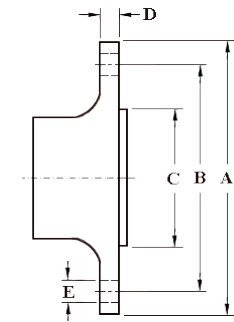
SAE Bell Housing Dimensions

SAE No.	A		B		C		Bolt Holes No.	Diameter	
	mm	in	mm	in	mm	in		mm	in
0	647.7	25.5	679.45	26.75	711.2	28.0	16	13.49	17/32
1	511.18	20.125	530.23	20.875	552.45	21.75	12	11.91	15/32



Output Coupling Dimensions

A		B		C		D		Bolt Holes No.	Diameter (E)	
mm	in	mm	in	mm	in	mm	in		mm	in
390	15.4	345	13.6	250	9.84	30.0	1.18	12	24.2	0.95



Duty Definitions

CONTINUOUS DUTY DEFINITION Continuous operation with little or no variations in engine speed and power

Average engine operating hours limit: **Unlimited**

Typical hull forms: **Displacement.**

Typical applications: **Heavy duty commercial vessels, tugs, fishing boats.**

Duty Ratings

Ratings apply to marine diesel engines at the indicated speeds. At other engine speeds, the respective power capacity (kW) of the transmission can be obtained by multiplying the Power/Speed ratio by the speed.

Approximate conversion factors:

1 kW = 1.36 metric hp

1 kW = 1.34 U.S. hp (SAE)

1 U.S. hp = 1.014 metric hp

1 Nm = 0.74 lb.ft.

Ratings apply to right hand turning engines, i.e. engines having counterclockwise rotating flywheels when viewing the flywheel end of the engine. These ratings allow full power through forward and reverse gear trains, unless otherwise stated.

Contact your nearest ZF Sales and Service office for ratings applicable to gas turbines, gasoline (petrol) engines, as well as left hand turning engines, and marine transmissions for large horsepower capacity engines.

Ratings apply to marine transmissions currently in production or in development and are subject to change without prior notice.

NOTE: THE MAXIMUM RATED INPUT POWER MUST NOT BE EXCEEDED (SEE RESPECTIVE RATINGS IN THE TECHNICAL DATA SHEETS)

Safe Operating Notice

The safe operation of ZF products depends upon adherence to technical data presented in our brochures. Safe operation also depends upon proper installation, operation and routine maintenance and inspection under prevailing conditions and recommendations set forth by ZF. Damage to transmission caused by repeated or continuous emergency manoeuvres or abnormal operation is not covered under warranty. It is the responsibility of users and not ZF to provide and install guards and safety devices, which may be required by recognized safety standards of the respective country (e.g. for U.S.A. the Occupational Safety Act of 1970 and its subsequent provisions).

Monitoring Notice

The safe operation of ZF products depends upon adherence to ZF monitoring recommendations presented in our operating manuals, etc. It is the responsibility of users and not ZF to provide and install monitoring devices and safety interlock systems as may be deemed prudent by ZF. Consult ZF for details and recommendations.

Torsional Responsibility and Torsional Couplings

The responsibility for ensuring torsional compatibility rests with the assembler of the drive and driven equipment. ZF can accept no liability for gearbox noise caused by vibrations or for damage to the gearbox, the flexible coupling or to other parts of the drive unit caused by this kind of vibration. Contact ZF for further information and assistance. ZF recommends the use of a torsional limit stop for single engine powered boats, wherein loss of propulsion power can result in loss of control. It is the buyer's responsibility to specify this option, which can result in additional cost and a possible increase in installation length.

ZF can accept no liability for personal injury, loss of life, or damage or loss of property due to the failure of the buyer to specify a torsional limit stop. ZF selects torsional couplings on the basis of nominal input torque ratings and commonly accepted rated engine governed speeds. Consult ZF for details concerning speed limits of standard offering torsional couplings, which can be less than the transmission limit. Special torsional couplings may be required for Survey Society Ice Classification requirements.