



ZF 24355 SG

Near co-axial, remote mount marine transmission.

Description

- Reverse reduction marine transmission with hydraulical clutches. Input drive on opposite side to ouput drive.
- Non-reversing NR version also available .
- Fully works tested, reliable and simple to install .
- Suitable for high performance applications in all types of fast craft, luxury motoryachts, patrol vessels,
- Design, manufacture and quality control standards comply with ISO 9001 and AQAP.
- Compatible with all types of engines and propulsion systems, including waterjets and surface-piercing propellers and cpps. • Vertical offset, nearly coaxial design .

Features

- Lightweight and robust aluminum alloy casing (sea water resistant) .
- 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 electric actuation .
- Compact, space-saving design, complete with oil cooler, pump and full flow filter .
- Suitable for multi engine installation (same ratio and torque capacity enginewise or counter enginewise .

Options

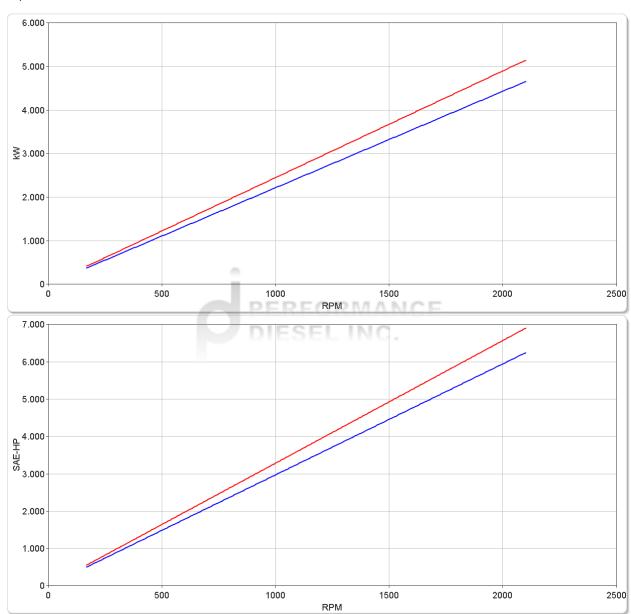
- Engine-matched torsional coupling .
- Propeller shaft flange and coupling bolt sets .
- Classification by all major Classification Societies on request .
- . Monitoring kit .
- Elastic mounting brackets.
- PTO (live) .
- ZF-Autotroll electronic control system for slow-speed drive .

ZF 24355 SGRatings

Light Duty

RATIOS	MAX. T	ORQUE	POWE	R/RPM	INPUT POWER CAPACITY						MAX.
RATIOS	Nm	ftlb	kW	hp	kW	hp	kW	hp	kW	hp	RPM
	1800 rpm		2000 rpm		2100 rpm						
3.000, 6.500	23399	17258	2.4502	3.2857	4410	5914	4900	6571	5145	6900	2100
7.000	21170	15614	2.2168	2.9727	3990	5351	4434	5945	4655	6243	2100

* Special Order Ratio.

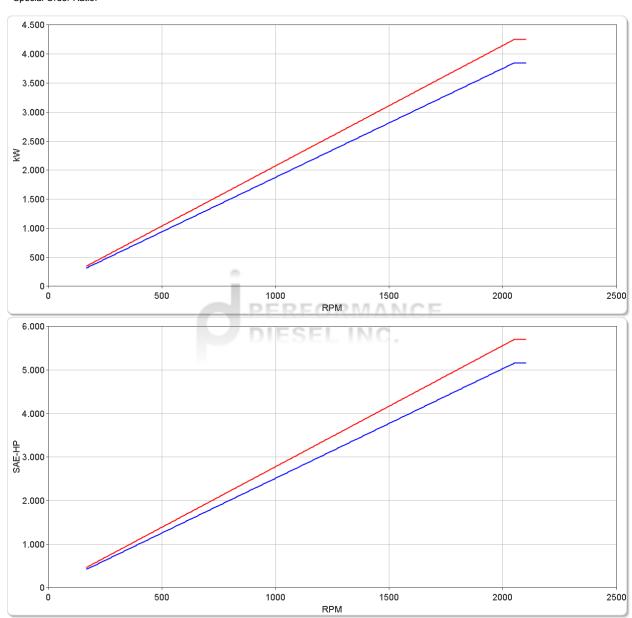


ZF 24355 SG Ratings

Medium Duty

RATIOS	MAX. TORQUE POWER/RPM INPUT POWER CAPACITY										
RATIOS	Nm	ftlb	kW	hp	kW	hp	kW	hp	kW	hp	RPM
					1600	rpm	1800) rpm	2050) rpm	
3.000, 6.500	19807	14609	2.0740	2.7813	3318	4450	3733	5006	4252	5702	2100
7.000	17920	13217	1.8764	2.5163	3002	4026	3378	4529	3847	5159	2100

* Special Order Ratio.

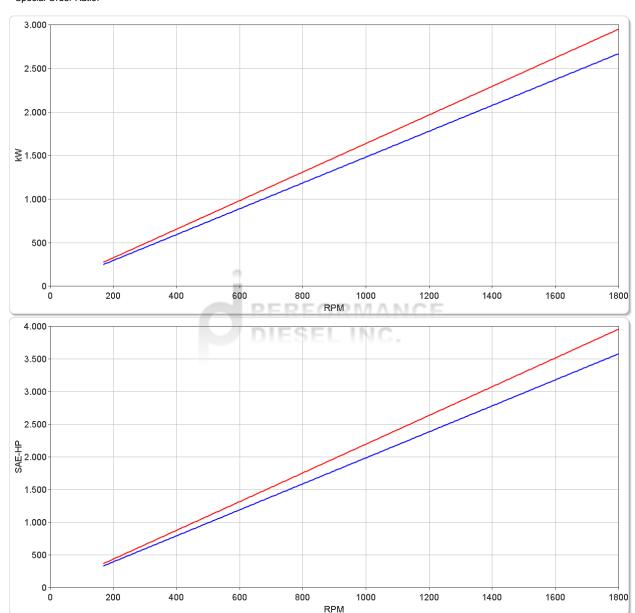


ZF 24355 SGRatings

Continuous Duty

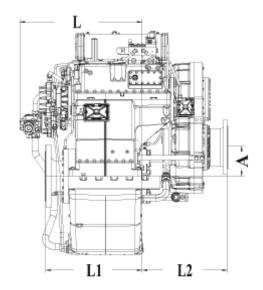
RATIOS	MAX. T	INPUT POWER CAPACITY						MAX.			
IVATIOS	Nm	ftlb	kW	hp	kW	hp	kW	hp	kW	hp	RPM
					1200	rpm	1600	rpm	1800) rpm	
3.000, 6.500	15661	11551	1.6399	2.1991	1968	2639	2624	3519	2952	3958	1800
7.000	14169	10451	1.4837	1.9896	1780	2388	2374	3183	2671	3581	1800

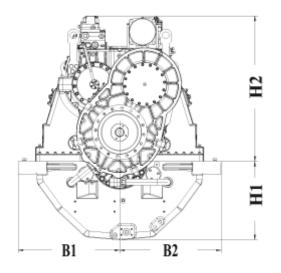
* Special Order Ratio.



ZF 24355 SG

Dimensions

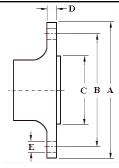




mm (inches)											
Α	B ₁	B ₂	Вз	В4	H ₁	H ₂		L ₁	L ₂		
254 (10.0)	890 (35.1)	890 (35.1)	-	-	690 (27.2)	1,288 (50.7)	1,073 (42.2)	845 (33.3)	750 (29.5)		
	Weight k	g (lb)			Oil Capacity Litre (US qt)						
4,500 (9,921)							200 (212)				

Output Coupling Dimensions

	Δ Β		7	CD		Bolt Holes					
· ·	~		Ь					No.	Diame	eter (E)	
mm	in	mm	in	mm	in	mm	in	INO.	mm	in	
550	21.7	492	19.4	437	17.2	50.0	1.97	24	30.4	1.20	





Duty Definitions

LIGHT DUTY DEFINITION Intermittent operation with large variations in engine speed and power

Average engine operating 2500 hours/year

hours limit: (for hydraulic gearboxes smaller than the ZF 650 series, 2000 hours/year).

Typical hull forms: Planing and semi-displacement.

Typical applications: Private and charter, sport/leisure activities, naval and police activities.

MEDIUM DUTY DEFINITION Intermittent operation with some variations in engine speed and power

Average engine operating 4000 hours/year.

hours limit: 3500 hours/year for gearboxes smaller than ZF 2000 series and workboat ZF W2700 series.

Typical hull forms: Semi-displacement and displacement

Typical applications: Charter and commercial craft (example: crew boats and fast ferries), and naval and police activities.

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

Average engine operating Unlimited

hours limit:

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.

