MAXIMUM 1452 KW (1947 HP) @ 2300 RPM [PLEASURE CRAFT DUTY]

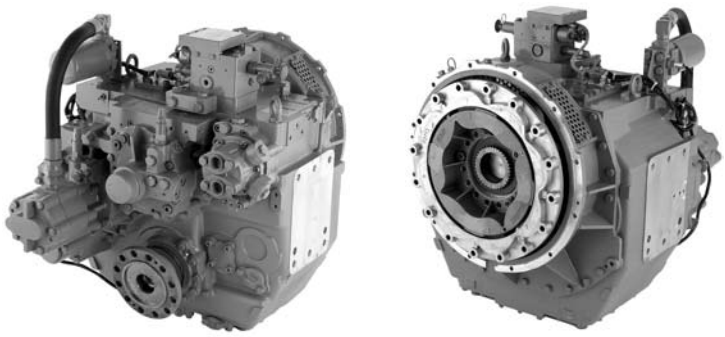
STANDARD EQUIPMENT

MGX-6599 SC & MGX-6599 A

SAE J617 housing no. 1
Flexible coupling for 14" flywheel (SAE J620 size 355)
Electric GP-valve with manual override
EC050 profile module – interface for engagement signals
Integral oil cooler for raw water cooling
Oil strainer and oil filter

MGX-6599 RV

Input flange size GWB 587.50
Electric GP-valve with manual override
EC050 profile module – interface for engagement signals
Integral oil cooler for raw water cooling
Oil strainer and oil filter



QUICKSHIFT®
You've got to feel it to believe it.

OPTIONS

OPTIONS	MGX-6599 SC	MGX-6599 A	MGX-6599 RV
Input hub for freestanding installations	x	x	
SAE J617 housing no. 0	x	x	
Flexible coupling for 18" flywheel (SAE J620 size 460)	x	x	
EC050 E-Troll module – interface for engagement and trolling signals	x	x	x
Companion flange/bolts set	x	x	x
Monitoring devices to customer's specification	x	x	x
Trailing pump, output shaft driven	x	x	x
Mounting brackets	x	x	x
Live PTO – max. 592 Nm			
SAE J744 size 127-4, 32-4 (SAE "C", 4-bolt)	x	x	x
Hydraulic clutchable PTO – max. 592 Nm			
SAE J744 size 127-4, 32-4 (SAE "C", 4-bolt)	x	x	x
Secondary live PTO for power steering pumps			
SAE J744 size 101-2, 22-4 (SAE "B", 2-bolt) – max. 197 Nm or			
SAE J744 size 82-2, 22-4 (SAE "A", 2-bolt) – max. 197 Nm	x	x	x
Weight (dry weight with standard equipment)	**492 kg**	**488 kg**	**468 kg**

Contact Twin Disc for Survey Society Approvals and Classifications.
Specifications subject to change without prior notice in the interest of continual product improvement.

INPUT RATINGS – KILOWATTS (KW) (HORSEPOWER [HP])*

MGX-6599 SC

Reduction Ratios :1	Pleasure Craft @2300 RPM	Light Duty @2300 RPM	Intermediate Duty @2100 RPM	Medium Duty @1800 RPM	Continuous Duty @1800 RPM	Input Speed Limits RPM
1.07, 1.30 1.50, 1.66	1452 kW (1947 hp)	1244 kW (1668 hp)	960 kW (1287 hp)	774 kW (1038 hp)	744 kW (998 hp)	2500 MAX.
1.74	1418 kW (1902 hp)					
1.97		1234 kW (1655 hp)			728 kW (976 hp)	
2.04						
2.19			940 kW (1261 hp)			
2.45	1343 kW (1801 hp)	1164 kW (1561 hp)				
2.82	1156 kW (1550 hp)	1042 kW (1397 hp)	811 kW (1088 hp)	668 kW (896 hp)	624 kW (837 hp)	

MGX-6599 A & MGX-6599 RV

Reduction Ratios :1	Pleasure Craft @2300 RPM	Light Duty @2300 RPM	Intermediate Duty @2100 RPM	Medium Duty @1800 RPM	Continuous Duty @1800 RPM	Input Speed Limits RPM
1.34, 1.51, 1.74 2.03	1418 kW (1902 hp)	1301 kW (1745 hp)	992 kW (1330 hp)	820 kW (1100 hp)	767 kW (1029 hp)	2500 MAX.
2.24						
2.48	1343 kW (1801 hp)	1195 kW (1602 hp)	937 kW (1257 hp)	772 kW (1035 hp)	728 kW (976 hp)	
2.80	1156 kW (1550 hp)	1144 kW (1534 hp)	908 kW (1218 hp)	709 kW (951 hp)	699 kW (937 hp)	

** Input speed limits: min. 450 rpm/max. 2500 rpm. Ratings shown are for use with standard right hand rotation engines.*

SERVICE CLASSIFICATION DEFINITIONS

Pleasure Craft [PC]: Up to 500 hours/year, low load factor usage planing hull vessels where typical full engine throttle operation is less than 10% of total time. The balance of operation at 80% of full engine throttle or less. Marine transmissions for use in long-range pleasure cruisers, sportfish charter boats/ patrol boats do not qualify for Pleasure Craft Service.

Note: Some revenue producing applications such as Planing Hull Bristol Bay Gillnetter do qualify under Pleasure Craft rating definition.

Light Duty [LD]: Relatively low hour usage (less than 1500 hours per year) where full throttle operation is 2 hours out of 12.

Typical applications include planing hull vessels such as fire boats, sportfish charter boats, and patrol/custom boats. This rating is also applicable to some bow and stern thruster applications.

Intermediate Duty [ID]: Hour usage of up to 2000 hours/year (for models MG-5114 Series and smaller) and up to 3000 hours/year (for models larger than MG-5114 Series) with 50% of the operating time at full engine rating.

Typical applications include planing hull vessels such as ferries, fishing boats, some crew boats, and some displacement hull yachts as well as some bow and stern thruster applications.

Medium Duty [MD]: Hour usage of up to 4000 hours/year with up to 80% of operating time at full engine power. This duty classification is for usage where some variations in engine speed/power occur as part of normal vessel operation.

Typical vessels include mid-water trawlers, crew/supply boats, ferries and some inland water tow boats.

Continuous Duty [CD]: For use in continuous operation with little or no variation in engine speed/power setting.

Typical vessels include fishing trawlers, tow/tug boats and ocean going vessels.

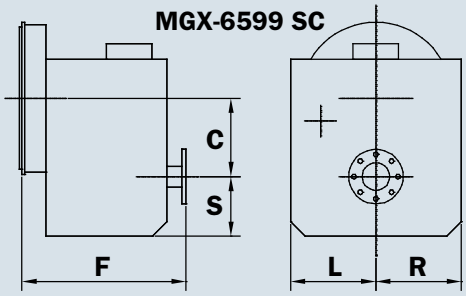
Important Notice: Torsional Vibration: Disregarding propulsion system torsional compatibility could cause damage to components in the drive train resulting in loss of mobility. At minimum, system incompatibility could result in gear clatter at low speeds.

The responsibility for ensuring that the torsional compatibility of the propulsion system is satisfactory rests with the assembler of the drive and driven equipment.

Torsional vibration analysis can be made by the engine builder, marine survey societies, independent consultants and others. Twin Disc is prepared to assist in finding solutions to potential torsional problems that relate to the marine transmission.

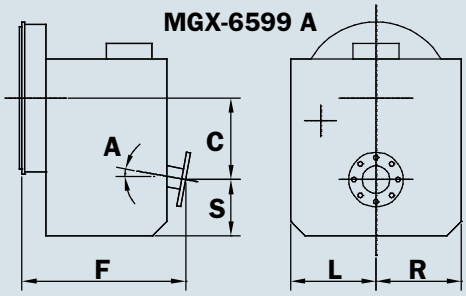
Twin Disc, Incorporated reminds users of these products that their safe operation depends on use in compliance with engineering information provided in this bulletin. Users are also reminded that safe operation depends on proper installation, operation and routine maintenance and inspection under prevailing conditions. It is the responsibility of the user (and not Twin Disc, Incorporated) to provide and install guards or safety devices which may be required by recognized safety standards or by the Occupational Safety and Health Act of 1970 and its subsequent provision.

MGX-6599 SC



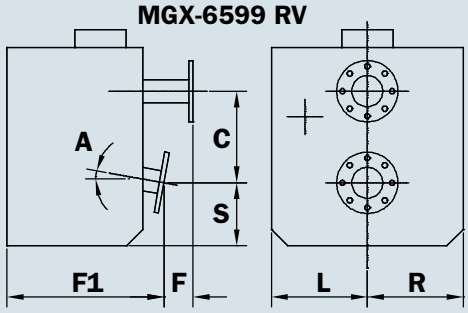
C	228.7 mm (9.00 in)
S	227.3 mm (8.95 in)
F	592.0 mm (23.31 in)
L	340.0 mm (13.39 in)
R	340.0 mm (13.39 in)

MGX-6599 A



C	297.3 mm (11.70 in)
S	158.7 mm (6.25 in)
F	574.0 mm (22.60 in)
L	340.0 mm (13.39 in)
R	340.0 mm (13.39 in)
A	10°

MGX-6599 RV



C	297.3 mm (11.70 in)
S	158.7 mm (6.25 in)
F	162.0 mm (6.38 in)
F1	516.0 mm (20.31 in)
L	340.0 mm (13.39 in)
R	340.0 mm (13.39 in)
A	10°

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