



Certificate No. 02-004102/025891

TYPE APPROVAL CERTIFICATE

This is to certify that this product complies with the Rules for the classification of ships, Part 1 - General requirements, Chapter 3 - Type approval of products.

TYPE AND DESCRIPTION OF PRODUCT:

**Marine Reduction Gearboxes for Diesel Propulsion
TWIN DISC
type
MG & MGX 5065 SC**

MANUFACTURER:

Twin Disc International S.R.L.
54, chaussée de Namur
1400 Nivelles
Belgium

THE PRODUCT MEETS FOLLOWING RULES/REGULATIONS:

Rules for the Classification of Ships, Part 9-Machines

FURTHER DETAILS OF THE PRODUCT AND CONDITIONS FOR CERTIFICATION ARE GIVEN OVERLEAF.

APPROVAL IS VALID UNTIL: **2027-07-12**

Place and date: **Split, 2023-07-12**

Seal

Marinko Popović, dipl.ing.

NOTE: This certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify Croatian Register of Shipping of any modification or changes to the product in order to obtain a valid certificate.

DETAILED PRODUCT DESCRIPTION:

Marine reduction gearboxes type MG & MGX 5065 SC with vertical offset, built-in hydraulic clutches and reversing stage.

APPLICATION / LIMITATIONS:

The approval status is based on application factor 1,30.

POWER RATINGS – kW					
Maximum Continuous Ratings*					
RATIO	1800 rpm	2100 rpm	2300 rpm	2500 rpm	2800 rpm
2.43:1	199	232	254	276	310
2.04:1	216	250	272	296	331
1.72:1					
1.47:1					
1.26:1					
1.08:1					
POWER RATINGS – kW					
Medium Duty Ratings*					
RATIO	1800 rpm	2100 rpm	2300 rpm	2500 rpm	2800 rpm
2.43:1	208	243	266	289	331
2.04:1	227	262	285	310	347
1.72:1					
1.47:1					
1.26:1					
1.08:1					
POWER RATINGS – kW					
Intermediate Duty Ratings*					
RATIO	1800 rpm	2100 rpm	2300 rpm	2500 rpm	2800 rpm
2.43:1	218	254	279	302	338
2.04:1	239	279	305	329	367
1.72:1					
1.47:1					
1.26:1					
1.08:1					
POWER RATINGS – kW					
Light Duty Ratings*					
RATIO	1800 rpm	2100 rpm	2300 rpm	2500 rpm	2800 rpm
2.43:1	275	321	351	381	428
2.04:1	294	343	376	407	453
1.72:1					
1.47:1					
1.26:1					
1.08:1					
POWER RATINGS – kW					
Pleasure Craft Duty Ratings*					
RATIO	1800 rpm	2100 rpm	2300 rpm	2500 rpm	2800 rpm
2.43:1	287	336	368	400	448
2.04:1	308	359	393	425	474
1.72:1					
1.47:1					
1.26:1					
1.08:1					

**Reference is made to Manufacturer marine service classification definitions .*

TYPE APPROVAL DOCUMENTATION:

Drawings and calculations approved by CRS with letters: 1410/025891 (2023-07-12)

MARKING OF PRODUCT:

- *manufacturer's mark*
- *serial No.*
- *location and year of manufacturing*
- *CRS mark*

CONDITIONS FOR CERTIFICATION:

Measuring devices, sensors and alarms shall be subject to CRS approval in each particular case and will depend on service applied and the degree of automation of the propulsion plant.