

NOTES:

1. SHAFT STIFFNESS:-
THE STIFFNESS OF THE SHAFT BETWEEN THE MAIN ROTOR CORE ϕ AND THE SHAFT EXTENSION ϕ IS 1.0047×10^6 kgcm/radian (STIFFENING EFFECT OF MAIN ROTOR CORE IS NOT INCLUDED IN THIS FIGURE)

2. SHAFT MATERIAL:-
MINIMUM YEILD : 260×10^6 N/m²
MINIMUM TENSILE : 530×10^6 N/m²
STEEL - C40E TO BSEN 10083-2 2006
SHAFT MATERIAL IS APPROVED BY MARINE AUTHORITIES WHEN APPROPRIATE


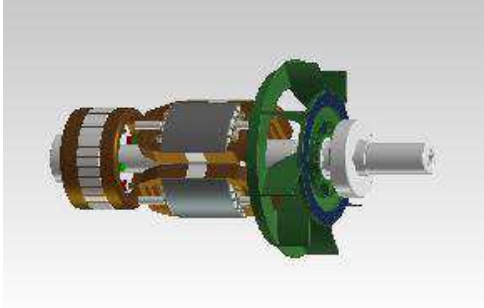
3. MAXIMUM RECOMMENDED VIBRATORY STRESS LEVEL IN THE SHAFT IS
 34.47×10^6 N/m² FOR SPEED RANGE OF 0.95 TO 1.1 x NOMINAL SPEED
AND 68.94×10^6 N/m² FOR RUN THROUGH CONDITIONS, FOR INDUSTRIAL MACHINES FOR MARINE AUTHORITIES, THEIR APPROPRIATE RULES WILL APPLY CUMMINS GENERATOR TECHNOLOGIES LTD SHOULD BE NOTIFIED OF ANY ROTORS NOT COMPLYING WITH THESE RULES

4. CUMMINS GENERATOR TECHNOLOGIES LTD BALANCE ROTORS TO COMPLY WITH INTERNATIONAL STD ISO 1940 PARTS 1 AND 2. BALANCE GRADE 2.5

5. FOR UNBALANCED MAGNETIC PULL (U.M.P.) FORCES PLEASE CONTACT CUMMINS GENERATOR TECHNOLOGIES LTD

COMPONENT	MASS (Kg)	WR ² (Kg m ²)
SHAFT	4.853	0.0010
FAN	0.4929	0.0034
MAIN ROTOR	12.18	0.0327
EXCITER ROTOR	3.6	0.0125
TOTAL	21.1259	0.0496

CONVERSION FACTOR		
TO CONVERT	TO	DIVIDED BY
Kg	lb	0.453592
Kgm ²	lbf ft ²	0.04214
Kgcm/rad	lb in/rad	1.1521246
N/M ²	lbf/in ²	6894.76

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D		Part Number: A077X829		 3D image provided when available for visual reference only.												
		Change Notice	CN00162842		Alternates											
		Manufacturer Part (MEP)	No		Usage	Production Only										
		Release Phase Code	Production (P)		Drawing Specification	Number: DS47164456										
		External Regulations	No External Regulation			Revision: A										
C	<div>Drawing Revision Information</div> <div><div>Description of Change(s) Note: Change information is provided for reference only and does not supersede the drawing's primary content.</div><div>SEE CHANGE NOTICE.</div><div>PRODUCTION RELEASE</div></div>															
	<div>Drawing Authorization</div> <table><tr><td>Drafter</td><td>Aishwarya Rajaram Shelar</td><td>Date</td><td>30APR2025</td></tr><tr><td>Checker</td><td>Kuldeep Dilip Pawar</td><td>Date</td><td>30APR2025</td></tr><tr><td>Approver</td><td>Alin Dumitru Visian</td><td>Date</td><td>02MAY2025</td></tr></table>				Drafter	Aishwarya Rajaram Shelar	Date	30APR2025	Checker	Kuldeep Dilip Pawar	Date	30APR2025	Approver	Alin Dumitru Visian	Date	02MAY2025
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			Part Number: A077X829 Part Revision: A Part Name: ARRANGEMENT,GENERATOR ROTOR TORSIONAL Drawing Category: Outline State: Released Sheet 2 of 2													
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