



NOTES:

- SHAFT STIFFNESS:**
THE STIFFNESS OF THE SHAFT BETWEEN THE MAIN ROTOR CORE ϕ AND THE COUPLING HUB IS 89.70×10^6 Kgcm/radian (STIFFENING EFFECT OF MAIN ROTOR CORE IS NOT INCLUDED IN THIS FIGURE)
- SHAFT PROPERTIES:**
MINIMUM YIELD : 260MPa
MINIMUM ULTIMATE TENSILE STRENGTH : 530MPa
SHAFT MATERIAL IS APPROVED BY MARINE AUTHORITIES WHEN APPROPRIATE
- 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. CUMMINS GENERATOR TECHNOLOGIES LTD BALANCE ROTORS TO COMPLY WITH INTERNATIONAL STD ISO 1940 GRADE 2.5 AND BS 6861 PART 1 GRADE 2.5
- FOR UNBALANCED MAGNETIC PULL (U.M.P) FORCES PLEASE CONTACT CUMMINS GENERATOR TECHNOLOGIES LTD

COMPONENT	Mass [kg]	Inertia [kg*m ²]
1 SHAFT	487	2.7
2 FAN + HUB	80	4.8
3 MAIN ROTOR	1241	70.8
4 EXCITER	75	1.7
TOTAL	1833	80

CONVERSION FACTORS		
TO CONVERT	TO	DIVIDE BY
kg	lb	0.453592
kg m ²	lb ft ²	0.04214
kgcm/rad	lbin/rad	1.1521246
N/m ²	lbf/in ²	6894.76

Cummins Generator Technologies

DIMENSIONS ARE IN: MILLIMETERS
[] ARE IN: ----

DIMENSIONING AND TOLERANCING PER: ASME Y14.5M-2009

SIZE: A2 SCALE: 1:5

THIRD ANGLE PROJECTION

CAD SYSTEM AutoCAD

S9 D CORE, 2 BRG, ROTOR TORSIONAL DRAWING



Part Number: A063V976

Change Notice	CN00020908	Alternates	
Manufacturer Part (MEP)	No	Usage	Production Only
Release Phase Code	Production (P)	Drawing Specification	DS47022078
External Regulations	No External Regulation		

3D image provided when available for visual reference only.

Associated Specifications

Number	Name	Type	Category	Sub-Category
ESA030B356	SPECIFICATION,MATERIAL	Engineering Specification	Material Specification	Prohibited and Restricted Prohibited and Restricted

Drawing Revision Information

Description of Change(s)
UPDATED TORSIONAL DATA.

Drawing Authorization

Drafter	Mihai-Cristian Ilinca	Date	31JUL2020
Checker	Daniel Ciochina	Date	10AUG2020
Approver	NO APPROVAL REQUIRED	Date	

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