

NOTES: -

1. SHAFT STIFFNESS:-
THE STIFFNESS OF THE SHAFT BETWEEN THE MAIN ROTOR CORE ϕ AND THE SHAFT EXTENSION ϕ IS 0.9308×10^6 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 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 (Kgm^2)
SHAFT	5.136	0.0010
FAN	0.4929	0.0034
MAIN ROTOR	16.1	0.0471
EXCITER ROTOR	3.6	0.0125
TOTAL	25.3289	0.0640

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

DRAWING SPECIFICATION DESCRIPTION
S01 I-J, 4P, 2B

PART NUMBER: A077Y657	PART REVISION: A
PART NAME: ARRANGEMENT,GENERATOR ROTOR TORSIONAL	
DRAWING CATEGORY: OUTLINE	
STATE: RELEASED	SHEET: 1 OF 2
CUMMINS DATA CLASSIFICATION: CUMMINS CONFIDENTIAL	
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Cummins Generator Technologies

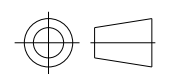


DIMENSIONS ARE IN: MILLIMETERS
[] ARE IN: -

SIZE: A2

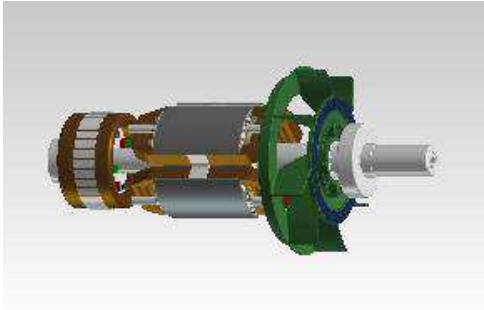
SCALE: 1:6

DIMENSIONING AND TOLERANCING PER:
ASME Y14.5-2009



THIRD ANGLE PROJECTION

CAD SYSTEM
PTC® Creo® Parametric

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D	<div><div>Cummins®</div></div>	<div>Part Number: A077Y657</div> <table><tr><td>Change Notice</td><td>CN00162842</td><td>Alternates</td><td></td></tr><tr><td>Manufacturer Part (MEP)</td><td>No</td><td>Usage</td><td>Production Only</td></tr><tr><td>Release Phase Code</td><td>Production (P)</td><td>Drawing Specification</td><td>Number: DS47164458</td></tr><tr><td>External Regulations</td><td>No External Regulation</td><td></td><td>Revision: A</td></tr></table>		Change Notice	CN00162842	Alternates		Manufacturer Part (MEP)	No	Usage	Production Only	Release Phase Code	Production (P)	Drawing Specification	Number: DS47164458	External Regulations	No External Regulation		Revision: A	<div></div> <div>3D image provided when available for visual reference only.</div>
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