

- NOTES:-
- SHAFT STIFFNESS:- THE STIFFNESS OF THE SHAFT BETWEEN THE MAIN ROTOR CORE ϕ AND THE SHAFT EXTENSION ϕ IS 1.7122×10^6 kgcm/radian (STIFFENING EFFECT OF MAIN ROTOR CORE IS NOT INCLUDED IN THIS FIGURE)
 - 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
 - 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
 - CUMMINS GENERATOR TECHNOLOGIES LTD BALANCE ROTORS TO COMPLY WITH INTERNATIONAL STD ISO 1940 PARTS 1 AND 2 . BALANCE GRADE 2.5
 - FOR UNBALANCED MAGNETIC PULL (U.M.P.) PLEASE CONTACT CUMMINS GENERATOR TECHNOLOGIES LTD

COMPONENT	MASS (Kg)	WR ² (Kg m ²)
SHAFT	9.542	0.0033
FAN	0.708	0.0069
MAIN ROTOR	28.414	0.1258
EXCITER ROTOR	5.300	0.0231
TOTAL	43.964	0.1591

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
SOL2-M, 4P, 2B

PART NUMBER: A077X826	PART REVISION: B
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: -

DIMENSIONING AND TOLERANCING PER: ASME Y14.5-2009

SIZE: A2 SCALE: 1:6

THIRD ANGLE PROJECTION

CAD SYSTEM
PTC® Creo® Parametric

4

3

2

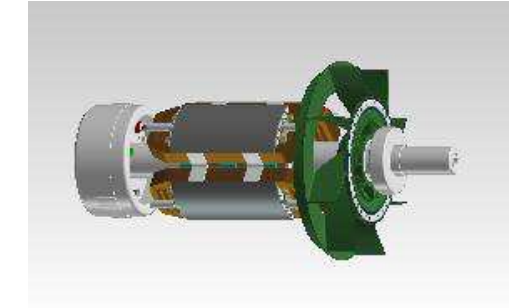
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Part Number: A077X826

Change Notice	CN00191900	Alternates	
Manufacturer Part (MEP)	No	Usage	Production Only
Release Phase Code	Production (P)	Drawing Specification	Number: DS47164356
External Regulations	No External Regulation		Revision: B



3D image provided when available for visual reference only.

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Drawing Revision Information

Description of Change(s) Note: Change information is provided for reference only and does not supersede the drawing's primary content.
1. MINOR AMENDMENTS ADMINISTRATIVE CHANGE(S) TO PART ATTRIBUTES, BILL OF MATERIAL, OR ASSOCIATED SPECIFICATIONS.

Drawing Authorization

Drafter	Aishwarya R Shelar	Date	23JUL2025
Checker	Sneha P Bondlewad	Date	23JUL2025
Approver	NO APPROVAL REQUIRED	Date	

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Part Number: **A077X826** Part Revision: **B**
 Part Name: **ARRANGEMENT,GENERATOR ROTOR TORSIONAL**
 Drawing Category: **Outline** State: **Released** Sheet 2 of 2

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3

2

1