



NOTES:

1. SHAFT STIFFNESS: THE STIFFNESS OF THE SHAFT BETWEEN THE MAIN ROTOR CORE ϕ AND THE SHAFT EXTENSION ϕ IS 99.66×10^6 kgcm/radian (STIFFENING EFFECT OF MAIN ROTOR CORE IS NOT INCLUDED IN THIS FIGURE)
2. SHAFT PROPERTIES: MINIMUM YIELD: 260MPa
MINIMUM ULTIMATE TENSILE STRENGTH: 530MPa
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 GRADE 2.5 AND BS 6861 PART 1 GRADE 2.5
5. FOR UNBALANCED MAGNETIC PULL (U.M.P.) FORCES PLEASE CONTACT CUMMINS GENERATOR TECHNOLOGIES LTD

CONVERSION FACTORS		
TO CONVERT	TO	DIVIDE BY
kg	lb	0.453592
kgm ²	lbft ²	0.04214
kgcm/rad	lb in/rad	1.1521246
N/m ²	ibf/in ²	6894.76

COMPONENT	WT (kg)	WR ² kgm ²
EXCITER ROTOR	63.000	1.0720
MAIN ROTOR	1389.29	57.1005
FAN	37.270	4.0490
FAN HUB	28.800	0.6088
SHAFT	470.77	2.2851
PMG ROTOR	6.970	0.0190
STUB SHAFT	0.929	0.0003
TOTAL	1982.93	63.2354

DRAWING SPECIFICATION DESCRIPTION
S7 K - CORE
2 - BRG, 4 - POLE

Cummins Generator Technologies

DIMENSIONS ARE IN: MILLIMETERS
[] ARE IN: -

SIZE: **A2** SCALE: 1:5

DIMENSIONING AND TOLERANCING PER:
ASME Y14.5-2009

THIRD ANGLE PROJECTION

CAD SYSTEM
PTC® Creo® Parametric



Part Number: A067C550

Change Notice	CN00116937	Alternates	
Manufacturer Part (MEP)	No	Usage	Production Only
Release Phase Code	Production (P)	Drawing Specification	Number: DS47093038
External Regulations	No External Regulation		Revision: C

3D image provided when available for visual reference only.

Drawing Revision Information

Description of Change(s)

Note: Change information is provided for reference only and does not supersede the drawing's primary content.

IN ZONE C2, UPDATE FAN WT AND WR2 VALUE

ADMINISTRATIVE CHANGE(S) TO PART ATTRIBUTES, BILL OF MATERIAL, OR ASSOCIATED SPECIFICATIONS.

Drawing Authorization

Drafter	Qun Zhou	Date	05DEC2023
Checker	Milo Chen	Date	07DEC2023
Approver	Krzysztof Wejrzanowski	Date	14DEC2023

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