



- NOTES:
1. SHAFT STIFFNESS: THE STIFFNESS OF THE SHAFT BETWEEN THE MAIN ROTOR CORE ϕ AND THE SHAFT EXTENSION ϕ IS 158.97×10^6 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
 4. FOR MARINE AUTHORITIES, THEIR APPROPRIATE RULES WILL APPLY
 5. CUMMINS GENERATOR TECHNOLOGIES LTD SHOULD BE NOTIFIED OF ANY ROTORS NOT COMPLYING WITH THESE RULES
 6. CUMMINS GENERATOR TECHNOLOGIES LTD BALANCE ROTORS TO COMPLY WITH INTERNATIONAL STD ISO 1940 GRADE 2.5 AND BS 6861 PART 1 GRADE 2.5
 7. FOR UNBALANCED MAGNETIC PULL (U.M.P.) FORCES PLEASE CONTACT CUMMINS GENERATOR TECHNOLOGIES LTD

COMPONENT	WT (Kg)	WR ² Kg ^m ²
EXCITER ROTOR	46.791	0.7758
MAIN ROTOR	578.188	18.460
FAN	37.27	4.049
HUB	117.123	2.1994
SHAFT	317.97	1.202
P.MAG ROTOR	6.970	0.0190
STUB SHAFT	0.929	0.0003
TOTAL	1105.241	26.7055

CONVERSION FACTORS		
TO CONVERT	TO	DIVIDE BY
Kg	lb	0.453592
Kgm ²	lb ft ²	0.04214
Kgcm/rad	lb in/rad	1.1521246
N/m ²	ibf/in ²	6894.76

COUPLING SAE NO.	COUPLING DIMENSIONS		TOTAL MASS OF COUPLING ASSEMBLY (KG)	COUPLING STIFFNESS (kgcm/rad)	COUPLING DISC WR ² (Kg ^m ²)
	ϕ XX mm	YY mm			
18	572	16	27.85	1857×10^6	0.59
21	673	00	25.92	1713×10^6	1.135
24	733	00	30.08	1666×10^6	1.598

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

DRAWING SPECIFICATION DESCRIPTION
S7HV-C, 1-BRG, 4P,MI



Part Number: A063N688

Change Notice	CN00021713	Alternates	
Manufacturer Part (MEP)	No	Usage	Production Only
Release Phase Code	Production (P)	Drawing Specification	DS47017411
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)
1.UPDATE NOTE 1

Drawing Authorization

Drafter	SAIDA ABUKALAM SHAIKH	Date	04AUG2020
Checker	Rahul Hanabar	Date	19AUG2020
Approver	NO APPROVAL REQUIRED	Date	

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