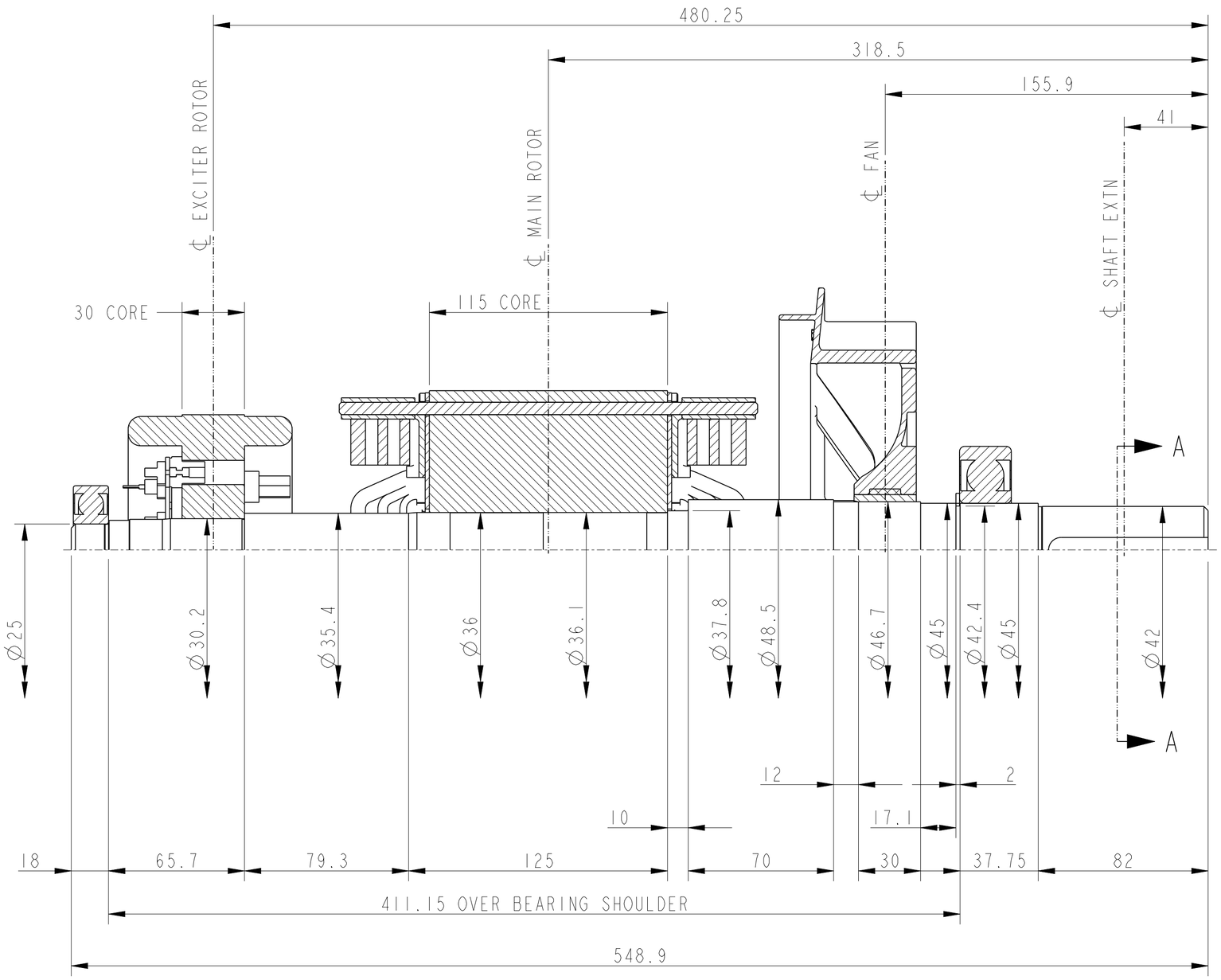
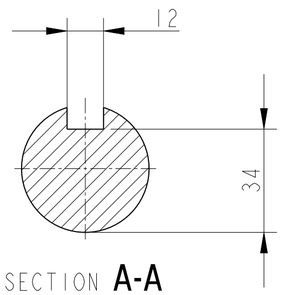




NOTES:

1. SHAFT STIFFNESS:-
   THE STIFFNESS OF THE SHAFT BETWEEN THE MAIN ROTOR CORE ℄ AND THE SHAFT EXTENSION ℄ IS 0.8995 x 10^6 kgcm/radian (STIFFENING EFFECT OF MAIN ROTOR CORE IS NOT INCLUDED IN THIS FIGURE)

2. SHAFT MATERIAL:-
   MINIMUM YEILD : 260 x $10^6 N/m^2$
   MINIMUM TENSILE : 530 x $10^6 N/m^2$
   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 x 10^6 N/m^2 OF 0.95 TO 1.1 x NOMINAL SPEED, AND 68.94 x 10^6 N/m^2 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	5.199	0.0011
FAN	0.4929	0.0034
MAIN ROTOR	14.95	0.0452
EXCITER ROTOR	3.6	0.0125
TOTAL	24.2419	0.0622

CONVERSION FACTOR		
TO CONVERT	TO	DIVIDED BY
Kg	lb	0.453592
Kgm^2	$lbft^2$	0.04214
Kgcm/rad	lb in/rad	1.1521246
N/M^2	lbf/in^2	6894.76

DRAWING SPECIFICATION DESCRIPTION
SOLI-H,4P,2B

PART NUMBER: A077Y656	PART REVISION: A
PART NAME: ARRANGEMENT,GENERATOR ROTOR TORSIONAL	
DRAWING CATEGORY: OUTLINE	
STATE: RELEASED	SHEET: 1 OF 2
CUMMINS DATA CLASSIFICATION: CUMMINS CONFIDENTIAL	

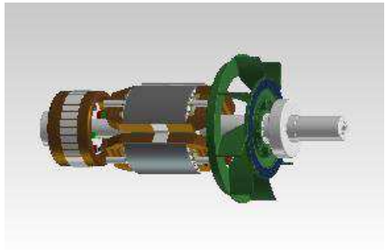
Cummins Generator Technologies

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

D C B A

Part Number: A077Y656

Change Notice	CN00162842	Alternates	
Manufacturer Part (MEP)	No	Usage	Production Only
Release Phase Code	Production (P)	Drawing Specification	Number: DS47164457
External Regulations	No External Regulation		Revision: A



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.
SEE CHANGE NOTICE. PRODUCTION RELEASE

Drawing Authorization

Drafter	Aishwarya Rajaram Shelar	Date	30APR2025
Checker	Kuldeep Dilip Pawar	Date	30APR2025
Approver	Alin Dumitru Visian	Date	02MAY2025

Document Generated: **02MAY2025 07:19 GMT**