

08/05/07 ORIGINAL ISSUE

DATE | MODIFICATION

-8440-7

ISSUE

DRAWN

NOTES: -

SHAFT STIFFNESS: -

THE STIFFNESS OF THE SHAFT BETWEEN THE MAIN ROTOR CORE & AND THE SHAFT EXTENSION & IS 2.1329 x 10⁶ kgcm/radian (STIFFENING EFFECT OF MAIN ROTOR CORE IS NOT INCLUDED IN THIS FIGURE)

SHAFT MATERIAL: -

STEEL - C40E TO BSEN 10083-2 2006 (APPROVED BY MARINE AUTHORITIES WHEN APPROPRIATE) MAXIMUM RECOMMENDED VIBRATORY STRESS LEVEL IN THE SHAFT IS 34.47 x 10⁶ N/m² FOR SPEED RANGE OF 0.95 TO 1.1 x NOMINAL SPEED AND 68.94 x 10⁶ N/m² FOR RUN THROUGH CONDITIONS, FOR INDUSTRIAL MACHINES.

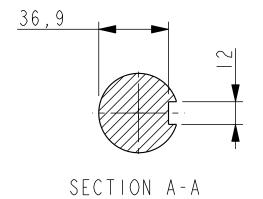
FOR MARINE AUTHORITIES, THEIR APPROPRIATE RULES WILL APPLY.

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 STOOLSO 1940 PARTS I AND 2. BALANCE GRADE 2.5.

FOR UNBALANCED MAGNETIC PULL (U.M.P.) REFER TO THE FACTORY.



COMPONENT	MASS (kg)	WR ² (kgm ²)
SHAFT	7.937	0.0030
FAN	0.976	0.0067
MAIN ROTOR	13.207	0.0642
EXCITER ROTOR	3.495	0.0139
TOTAL WITHOUT EBG ROTOR	25.615	0.0878
EBG ROTOR	1.701	0.0017
TOTAL WITH EBG ROTOR	27.316	0.0895



CONFIDENTIAL PROPERTY OF CUMMINS GENERATOR TECHNOLOGIES LTD.					PO4D TWO BEARING MOMENTS OF INERTIA			
	MATERIAL PROPS	-	DIMENSIONS IN MILLIMETRES		ROJECT	TON	AND SHAFT DETAILS	
	FINISH SPEC	-	DIMENSIONS IN MILLIMETRES (MM) AT 20°C	- 		SCALE	MATERIAL	
	GEOMETRY SPEC	-	SURFACE FINISH VALUES	WEIGHT	=		3:10 DRG. SIZE	CASTING No -
	ASSEMBLY SPEC	-	IN MICRO METRES	DRAWN	BSR	08/05/07	C	PART No ISSUE
	PERFORMANCE SPEC	-	1 UNLIMITED DIMS ± 0.25	CHECKED	DSG	25/6/07	REL. PHASE	[
	QUALITY SPEC	-		APPROVED	DPC	25/6/07	Pro/ENGINEER	SHEET I OF I SHEETS