

MOD. ISSUE DRAWN DATE MODIFICATION

NOTES: -

SHAFT STIFFNESS: -

THE STIFFNESS OF THE SHAFT BETWEEN THE MAIN ROTOR CORE ¢ AND THE SHAFT EXTENSION \updownarrow IS 2.0138 x 10 6 kgcm/radian (STIFFENING EFFECT OF MAIN ROTOR CORE IS NOT INCLUDED IN THIS FIGURE)

SHAFT MATERIAL:-

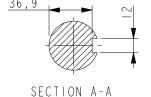
STEEL - C40E TO BSEN 10083-2 2006 (APPROVED BY MARINE AUTHORITIES WHEN APPROPRIATE) MAXIMUM RECOMMENDED VIBRATORY STRESS LEVEL IN THE SHAFT IS 34.47 x 10⁶ N/m² FOR SPEED RANGE OF 0.95 TO 1.1 x NOMINAL SPEED AND 68.94 x 10⁶ N/m² FOR RUN THROUGH CONDITIONS, FOR INDUSTRIAL MACHINES.

FOR MARINE AUTHORITIES, THEIR APPROPRIATE RULES WILL APPLY.

CTMMINS 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 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	8.449	0.0031
FAN	0.976	0.0067
MAIN ROTOR	20.508	0.0982
EXCITER ROTOR	4.300	0.0170
TOTAL WITHOUT EBG ROTOR	34.233	0.1250
EBG ROTOR	1.701	0.0017
TOTAL WITH EBG ROTOR	35.934	0.1267



CONFIDENTIAL PROPERTY OF CUMMINS GENERATOR TECHNOLOGIES LTD.					P04G TWO BEARING MOMENTS OF INERTIA		
	MATERIAL PROPS -	DIMENSIONS IN MILLIMETRES	PROJECTION -		AND SHAFT DETAILS		
	FINISH SPEC -	(MM) AT 20°C			SCALE	MATERIAL	
	GEOMETRY SPEC -	SURFACE FINISH VALUES	WEIGHT	Ξ		DRG. SIZE	CASTING No -
	ASSEMBLY SPEC -	IN MICRO METRES	DRAWN	BSR	08/05/07	C	PART No ISSUE
	PERFORMANCE SPEC -	UNLIMITED DIMS ± 0.25	CHECKED	DSG	28/08/09	REL. PHASE	L 15-13191 B
	QUALITY SPEC -		APPROVED	JB	28/08/09	Pro/ENGINEER	SHEET I OF I SHEETS