

ISSUE

DRAWN

DATE MODIFICATION

NOTES: -

SHAFT STIFFNESS: -

THE STIFFNESS OF THE SHAFT BETWEEN THE MAIN ROTOR CORE & AND THE SHAFT EXTENSION & IS 1.9669 x 10⁶ kgcm/radian (STIFFENING EFFECT OF MAIN ROTOR CORE IS NOT INCLUDED IN THIS FIGURE)

SHAFT MATERIAL: -

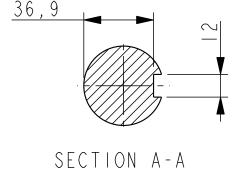
STEEL - C40E TO BSEN 10083-2 2006 (APPROVED BY MARINE AUTHORITIES WHEN APPROPRIATE)
MAXIMUM RECOMMENDED VIBRATORY STRESS LEVEL IN THE SHAFT IS 34.47 x 10⁶ N/m² FOR SPEED
RANGE OF 0.95 TO 1.1 x NOMINAL SPEED AND 68.94 x 10⁶ N/m² FOR RUN THROUGH CONDITIONS, FOR INDUSTRIAL MACHINES.

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 SID 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	8.712	0.0032
FAN	0.976	0.0067
MAIN ROTOR	22.825	0.1089
EXCITER ROTOR	4.300	0.0170
TOTAL WITHOUT EBG ROTOR	36.813	0.1358
EBG ROTOR	1.701	0.0017
TOTAL WITH EBG ROTOR	38.514	0.1375



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MATERIAL PROPS	-	DIMENSIONS IN MILLIMETRES PROJECTION		A	ND SHAFT DETAILS		
FINISH SPEC	-	(MM) AT 20°C		_	+	SCALE 3: 0	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	25/6/07	REL. PHASE	[
QUALITY SPEC	-		APPROVED	DPC	25/6/07	Pro/ENGINEER	SHEET I OF I SHEETS