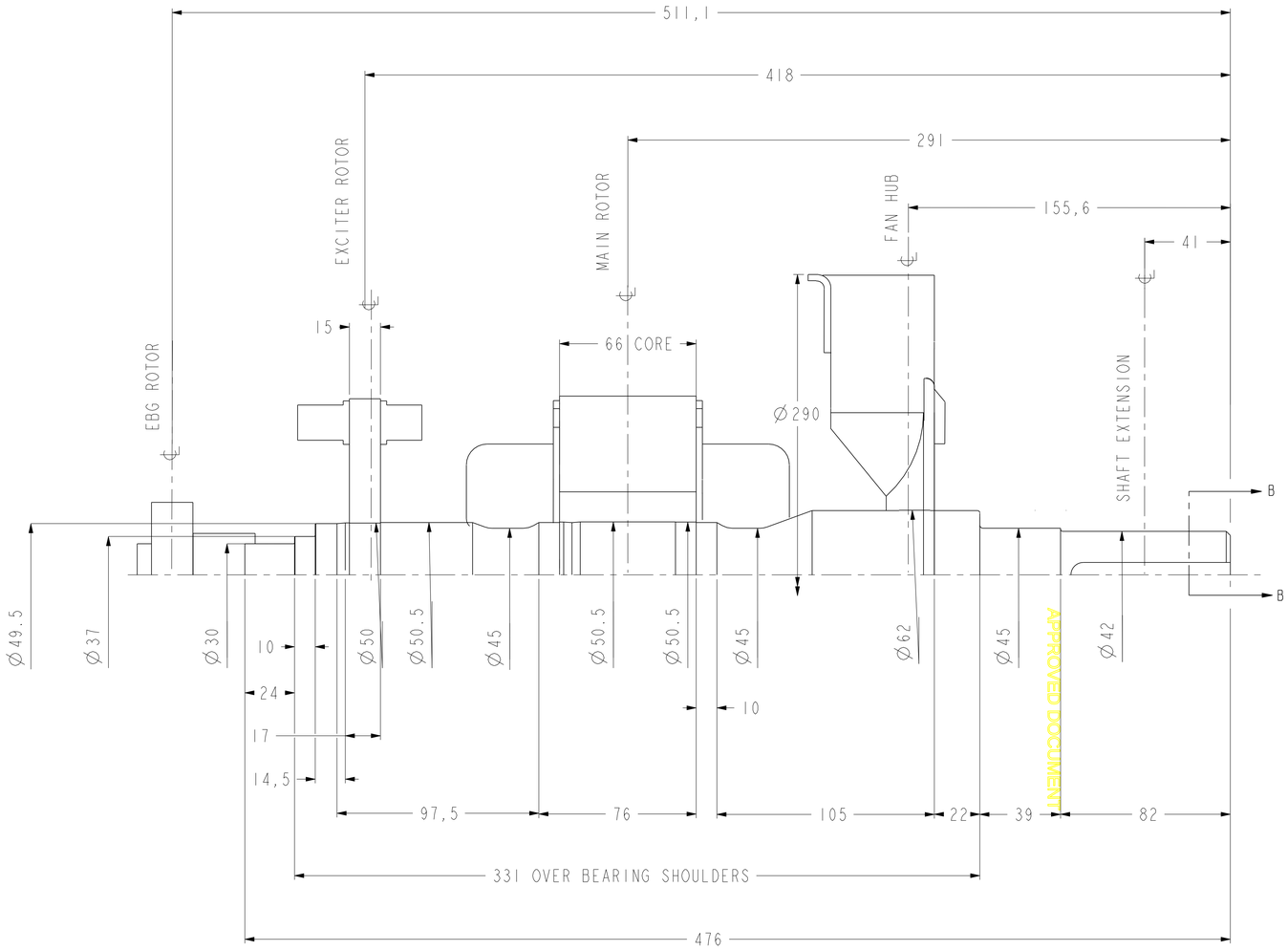
DRG. SIZE	REL. PHASE	PART No.	ISSUE
A	P	L15-13227	A

IF IN DOUBT-ASK
DO NOT SCALE



NOTES:-

SHAFT STIFFNESS:-

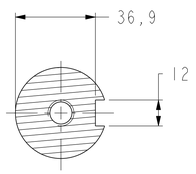
THE STIFFNESS OF THE SHAFT BETWEEN THE MAIN ROTOR CORE ℄
AND THE SHAFT EXTENSION ℄ IS 1.8668 X 10^6 kgcm/radian
(STIFFENING EFFECT OF MAIN ROTOR CORE IS NOT INCLUDED IN THIS FIGURE)

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 10^6 N/m^2 FOR SPEED RANGE 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. CUMMINS GENERATOR TECHNOLOGIES LTD BALANCE ROTORS TO COMPLY WITH INTERNATIONAL STD BS ISO 1940 PARTS 1 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	7.128	0.0024
FAN	0.976	0.0067
MAIN ROTOR	11.000	0.0368
EXCITOR ROTOR	2.710	0.0108
TOTAL WITHOUT EBG ROTOR	21.814	0.0567
EBG ROTOR	1.701	0.0017
TOTAL WITH EBG ROTOR	23.515	0.0584



SECTION B-B

CONVERSION FACTORS		
TO CONVERT	TO	DIVIDE BY
kg	lb	0.453592
kgm^2	$lbft^2$	0.04214
kgcm/rad	lbin/rad	1.1521246
N/m^2	lbf/in^2	6894.76

MOD.	ISSUE	DRAWN	DATE	MODIFICATION
-	-	-	-	-
4-9111-14	A	BSR	14.07.07	ORIGINAL ISSUE

MATERIAL PROPS	-	DIMENSIONS IN MILLIMETRES (MM) AT 20°C	PROJECTION	
FINISH SPEC	-		WEIGHT =	
GEOMETRY SPEC	-	SURFACE FINISH VALUES IN MICRO METRES	DRAWN	BSR 14.07.07
ASSEMBLY SPEC	-		CHECKED	RPM 16.07.07
PERFORMANCE SPEC	-	UNLIMITED DIMS ± --	APPROVED	DPC 16.07.07
QUALITY SPEC	-			

P02D TWO BEARING
MOMENTS OF INERTIA
AND SHAFT DETAILS

SCALE 3:10	MATERIAL -		
DRG. SIZE A	CASTING No -		
REL. PHASE P	PART No L15-13227	ISSUE A	
Pro/ENGINEER	SHEET 1 OF 1 SHEETS		