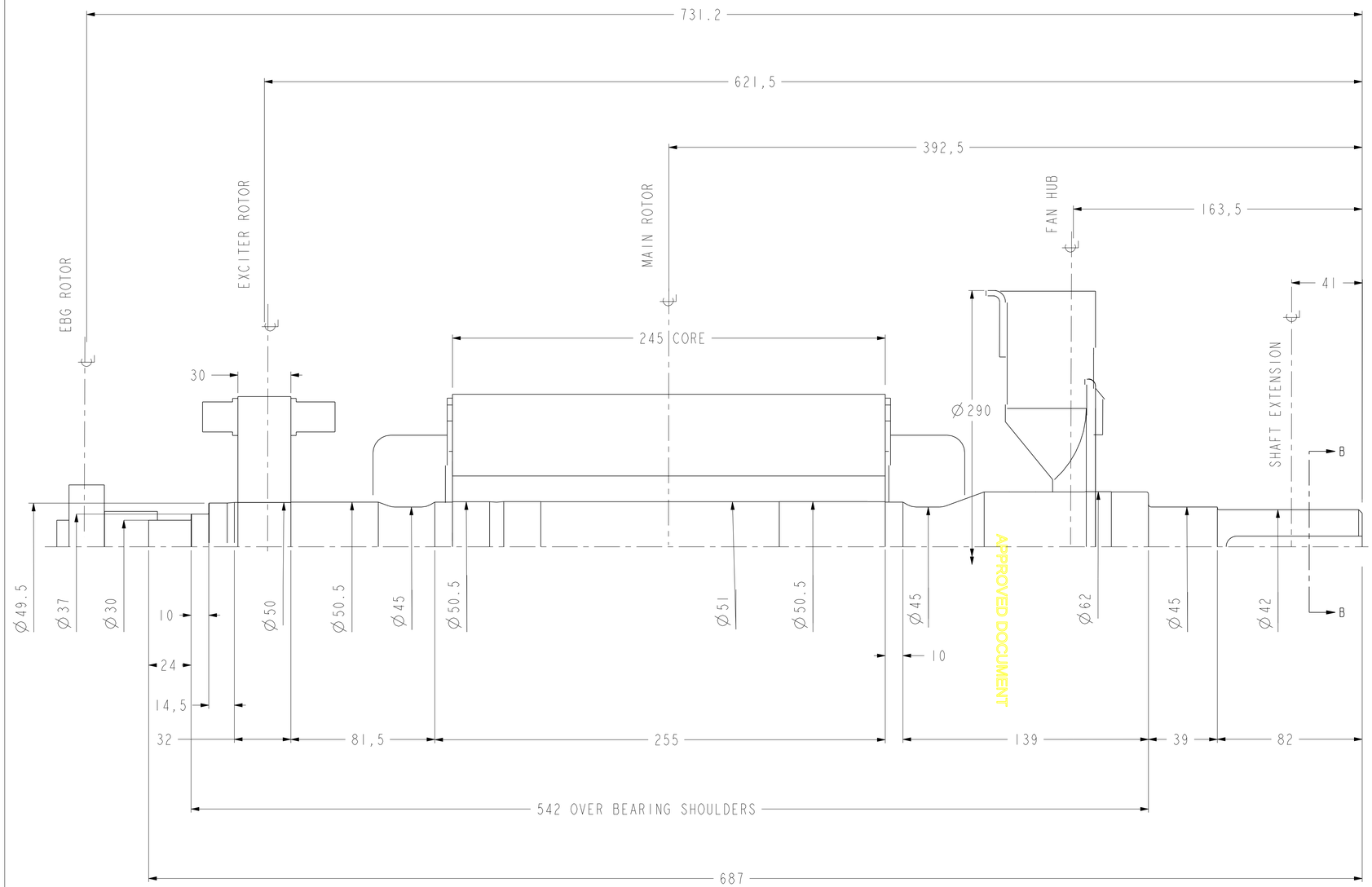
DRG. SIZE	REL. PHASE	PART No.	ISSUE
A	P	L15-13235	B

IF IN DOUBT-ASK
DO NOT SCALE



NOTES:-

SHAFT STIFFNESS:-

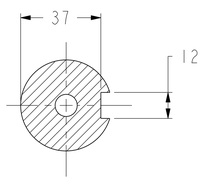
THE STIFFNESS OF THE SHAFT BETWEEN THE MAIN ROTOR CORE ℄ AND THE SHAFT EXTENSION ℄ IS 1.4098 X 10^6 kgcm/radian (STIFFENING EFFECT OF MAIN ROTOR CORE IS NOT INCLUDED IN THIS FIGURE)

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	10.753	0.0036
FAN	0.976	0.0067
MAIN ROTOR	33.786	0.1199
EXCITOR ROTOR	5.120	0.0201
TOTAL WITHOUT EBG ROTOR	50.635	0.1503
EBG ROTOR	1.701	0.0017
TOTAL WITH EBG ROTOR	52.336	0.1520



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
4-9111-40	B	BSR	02.09.07	Ø48 & Ø50 REDUCED TO Ø42 & Ø45 RESPECTIVELY,KEY WAS 14 NOW 12,LENGTH 41 REDUCED TO 39 AND TABLE UPDATED
4-9111-14	A	BSR	16.07.07	ORIGINAL ISSUE

MATERIAL PROPS -	DIMENSIONS IN MILLIMETRES (MM) AT 20°C	PROJECTION			
FINISH SPEC -					
GEOMETRY SPEC -	SURFACE FINISH VALUES IN MICRO METRES	WEIGHT =			
ASSEMBLY SPEC -		DRAWN	BSR	16.07.07	
PERFORMANCE SPEC -		CHECKED	RPM	3/10/07	
QUALITY SPEC -	UNLIMITED DIMS ± --	APPROVED	DPC	3/10/07	

P12H TWO BEARING MOMENTS OF INERTIA AND SHAFT DETAILS

SCALE 3:10	MATERIAL -		
DRG. SIZE A	CASTING No -		
REL. PHASE P	PART No L15-13235	ISSUE B	
Pro/ENGINEER	SHEET 1 OF 1 SHEETS		