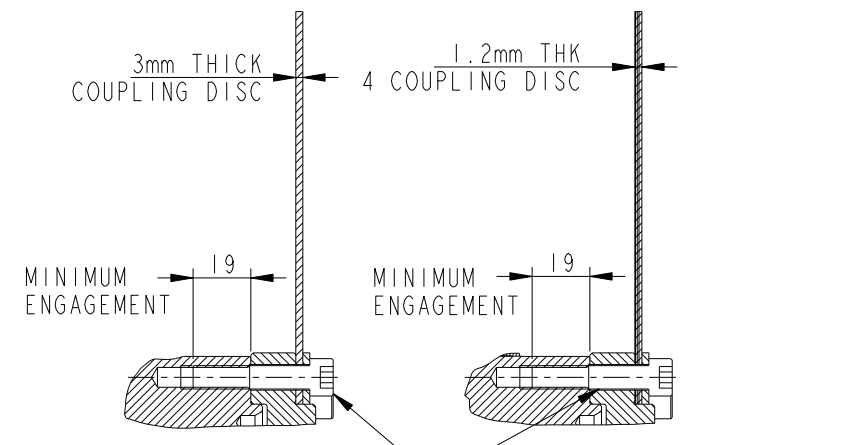
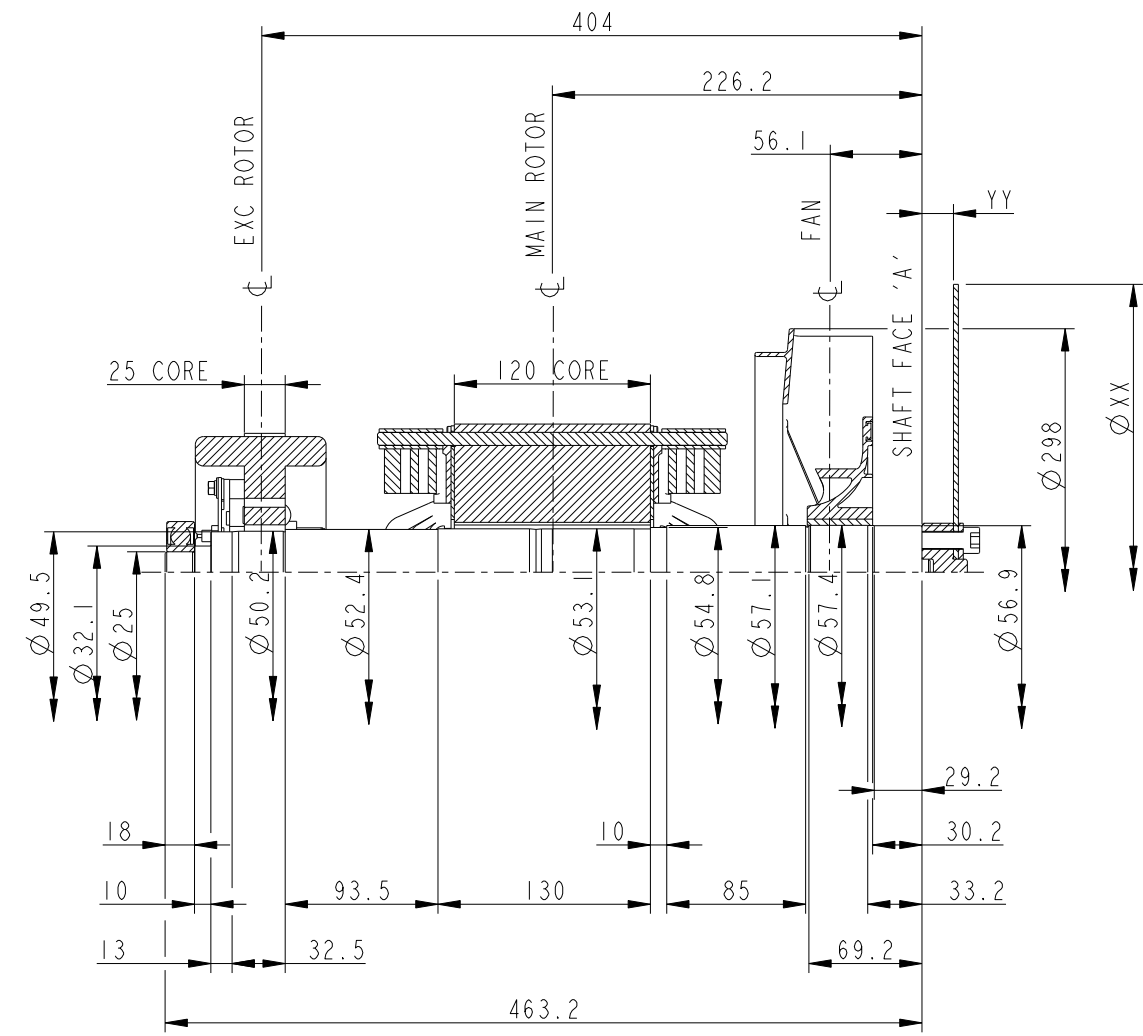


REL NO	REV	DETAIL	DWN	CKD	APVD	DATE
ECO-160793	C	PRODUCTION RELEASE	PS	UKD	S. JOSHI	21 JUL 16
		SEE ECO				



SECTION A-A
SCALE 1:2
6 EQUI-SPACED
SOCKET HEAD SCREW
M10 X 1.5 PITCH ON 39 PCD
TORQUE 73 Nm

NOTES:

- SHAFT STIFFNESS:
THE STIFFNESS OF THE SHAFT BETWEEN THE MAIN ROTOR CORE ϕ AND THE SHAFT FACE 'A' IS 3.4206×10^6 kgcm/radian (STIFFENING EFFECT OF MAIN ROTOR CORE IS NOT INCLUDED IN THIS FIGURE)
- SHAFT MATERIAL:
STEEL - C40E TO BSEN 10083-2 2006
MAXIMUM RECOMMENDED VIBRATORY STRESS LEVEL IN THE SHAFT IS 34.47×10^6 N/m² FOR SPEED RANGE OF 0.95 TO 1.1 X NOMINAL SPEED AND 68.94×10^6 N/m² FOR RUN THROUGH CONDITIONS, FOR INDUSTRIAL MACHINES.
- 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 BACK TO THE FACTORY

ADAPTOR SAE No.	COUPLING SAE No.	COUPLING DIMENSIONS		MASS OF DISCS (kg) (1 X 3mm THICK)	MASS OF DISCS (kg) (4 X 1.2mm THICK)	MASS OF SHAFT SPACER (kg)	MASS OF PRESSURE PLATE (kg)	TOTAL MASS OF COUPLING ASSEMBLY (kg)	COUPLING STIFFNESS (kgcm/rad)	COUPLING DISC WR ² (kgm ²)
		ϕ XX mm	YY mm							
4/5	6 1/2	215.8	9.88	0.835	-	0.175	0.048	1.058	12.00×10^6	0.0049
4/5	7 1/2	241.2	9.88	1.047	-	0.175	0.048	1.270	11.90×10^6	0.0077
3/4	10	314.2	33.47	1.790	-	0.592	0.048	2.431	11.71×10^6	0.0221
3	11 1/2	352.3	19.27	2.260	-	0.341	0.048	2.650	11.66×10^6	0.0351
3	11 1/2	352.3	17.47	-	3.616	0.309	0.048	3.973	18.70×10^6	0.0562

TO CONVERT	TO	DIVIDE BY
kg	lb	0.453592
kg m ²	lb ft ²	0.04214
kgcm/rad	lbin/rad	1.1521246
N/m ²	lbf/in ²	6894.76

COMPONENT	Wt Kg	WR ² Kg m ²
FAN	0.797	0.0069
SHAFT	7.88	0.0028
MAIN ROTOR	21.32	0.0850
EXCITER ROTOR	4.56	0.0180
TOTAL	34.557	0.1127

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MILLIMETERS

DIM	X ± 1	0.00-4.99 +0.15/-0.08
	X.X ± 0.1	5.00-9.99 +0.20/-0.10
	X.XX ± 0.01	10.00-17.99 +0.25/-0.13
		17.50-24.99 +0.30/-0.13

ANG TOL: ± 0.5° SCALE: 1:4

DO NOT SCALE PRINT

FOR INTERPRETATION OF DIMENSIONING AND TOLERANCING, SEE ASME Y14.5M-1994

SIM TO -

DWN M.ATHANI
CKD U.DAGWALE
APVD S.JOSHI
DATE 15 JAN 16

CUMMINS GENERATOR TECHNOLOGIES

DRAWING, TORSIONAL
SOL2-F1 4P

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FIRST USED ON FORTUNA PUN

DWG SIZE A2 A053H181

SHEET 1 REV C