

**GA, TECHNICAL DATA SHEET AND PERFORMANCE CURVES OF 315kW
HT MOTOR**

S.No	Description	Drawing No	No of Sheets
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3	Assembly Drawing of Phase Segregated Terminal Box	A3C 13780-013	1
4	Neutral Point Terminal Box	A3C 13903	1
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 Orissa Power Generation Corporation Ltd.	2X660 MW IB TPS Units 3&4	 BGR Energy Systems Ltd.
 Development Consultants Pvt. Ltd	Technical Datasheet for AC Motor	 Marathon Electric Motors (India) Ltd.

1.0 GENERAL

- 1.1 Application : Conveyor with Fluid coupling.
13A/B, 16A/B, 17A/B + Spare
- 1.2 Quantity : 7 Nos.
- 1.3 Make : Marathon Electric
- 1.4 Frame Size : DC355F3
- 1.5 Applicable Standard : IS:325

BGR is informed that 17A and 17B conveyor motors are not included in the CHP HT Transformer sizing calculation. Hence, Please clarify the feeding point/ source of these motors.

2.0 TYPE AND RATING

- 2.1 Type of Motor : Squirrel Cage Induction Motor
- 2.2 Service : Indoor
- 2.3 Duty Cycle/Designation : Continuous/S1.
- 2.4 Rated Continuous Output
- a) At 40 Deg.C ambient kW : 330
- b) At 50 Deg.C ambient kW : 315
- 2.5 Speed
- a) Rated Speed r.p.m. : 1488
- b) Synchronous Speed r.p.m. : 1500
- 2.6 Rated Voltage & % variation : 3.3 kV, +/-10%
- 2.7 Rated Frequency & % variation : 50Hz, +3% to - 5%
- 2.8 Combined voltage and frequency Variation % (absolute sum) : 10%
- 2.9 Full load current Amps : 67.5
- 2.10 No load current Amps : 19 (max.)

BGR please note that the rating considered for transformer sizing calculation as well as in the load list is 280kW. Request to check and confirm the motor rating and remove the discrepancy between this two document.

Please indicate following information in the data sheet.
1.. Number of pole.
2.. Minimum voltage to start the motor.

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2.11 Power Factor

- a) Full load : 0.87
- b) 3/4 load : 0.85
- c) 1/2 load : 0.80
- d) No load : 0.123
- e) Starting : 0.20

2.12 Efficiency at rated voltage and frequency

- a) Full load % : 94.0
- b) 3/4 load % : 93.2
- c) 1/2 load % : 92.0

3.0 PERFORMANCE

3.1 Method of Starting : DOL

3.2 Starting Current

- a) Starting Current at 100% voltage % FLC : 600% (Inclusive of IS tolerance)
- b) Starting Current at 110% voltage % FLC : 660% (Inclusive of IS tolerance)

3.3 Torque

- a) Full load torque kg.m : 206
- b) Starting Torque at rated voltage kg.m : 227 (110%FLT)
- c) Pull out torque kg.m : 453 (220%FLT)

3.4 Starting time at (% of Voltage) **80% 100% 110%**

- a) With load sec. : 2.5 1.5 1.2
- b) Without load (driven equipment Coupled) sec : 1.3 0.7 0.6

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3.5 Safe stall time at (% of Voltage) **80% 100% 110%**

a) Hot condition sec. : 25 15 12

b) Cold condition sec. : 30 20 16

3.6 Time Constant

a) Heating time constant min : 45

b) Cooling time constant min : 100

3.7 Starts

a) Permissible No. of equally spaced starts per hour : Three (3)

b) Permissible No. of starts in quick succession : Two (2)

3.8 Voltage required at motor terminals to start with connected load and accelerate to full speed without exceeding acceptable winding temperature : 80% Rated Voltage

3.9 Noise level at 1 m : 85 dB

3.10 Vibration level : 2.8 mm/sec.

3.11 Suitable for sudden application of 150% rated voltage during bus transfer : Yes

3.12 Capable of operating satisfactorily at full load for 5 minutes without injurious heating with 75% rated voltage at motor terminals : Yes

3.13 Capable of withstanding the stresses imposed if started at 110% of rated voltage : Yes

4.0 CONSTRUCTION

4.1 Degree of Protection of Enclosure : IP 55

4.2 Method of Cooling : TEFC / IC411

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- | | | | |
|------|--|--|---|
| 4.3 | Insulation Class/Type | : Class F/VPI | |
| 4.4 | Temperature Rise Over 50 Deg.C ambient (By resistance) | : Class B | |
| 4.5 | Tropicalized (Yes/No) | : Yes | |
| 4.6 | Winding Connection | : Star | |
| 4.7 | Bearings | | D.E. N.D.E. |
| | a) Make | : FAG/NTN/NSK/Equivalent | |
| | b) Type | : NU220-C3 | 6220-C3 |
| | c) Recommended lubricant | : Grease | Grease |
| | d) Is lubricant normally available IOC equivalent | : Yes | |
| | e) Insulation of bearing to prevent shaft current | :Yes(Insulated bkt. at NDE side) | |
| 4.8 | Motor Terminal Box | | |
| | a) Type | : PSTB for Stator & Non-PSTB for Neutral | |
| | b) Degree of Protection | : IP 55 | |
| | c) Fault withstand Current KA | : 43.7 kA | |
| | d) Fault Current Withstand Time Sec. | : 0.25 Sec | |
| | e) Suitable Cable Size | : 1x3Cx185 Sq. mm, Al. XLPE | |
| | f) Position | : RHS from DE | |
| | g) Capable of being turned 360° in steps of 180° | : Yes | |
| 4.9 | Painting | : Light Grey #631 as per IS-5 | |
| 4.10 | Direction of rotation viewed from DE | : Bi-Direction | |

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5.0 **ACCESSORIES**

5.1 Space Heaters

- a) No. x Watt : 2 x 43 W
- b) Volt, phase, frequency : 240V, 1Ph., 50 Hz

5.2 Winding temperature detector

- a) Type : Pt.100, Simplex, Resistance type, 3 wire Platinum wound 100 ohms at 0°C
- b) Nos. furnished : 12 nos. (4 Nos per phase)

5.3 Bearing temperature detector

- a) Type : Pt.100, duplex resistance type, 3 wire, Platinum wound 100 ohms at 0°C
- b) Nos. furnished : 2 Nos. (1 No. per bearing)

5.4 Temperature Indicators

- a) Type : Mercury in steel dial type (DTT)
- b) Nos. provided : 2 Nos.
- c) Locations : 1 No. per bearing

5.5 Temperature Alarm Contact

- a) Nos. provided : 1 NO + 1 NC
- b) Locations : DTT
- c) Contact rating : 5A @ 240 VAC & 0.5A @ 220VDC

5.6 Flow Switch

- a) Type : Not Applicable
- b) Nos. provided : Not Applicable

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c) Locations : Not Applicable

d) Contact Rating : Not Applicable

5.7 Current Transformer for differential protection

a) Nos. provided : Not Applicable

b) Current Ratio : Not Applicable

c) Class : Not Applicable

d) Knee point voltage : Not Applicable

e) Excitation current at VK/2 : Not Applicable

5.8 Accessory Terminal Box

a) No. provided : 2 Nos.(1 No. for Space Heater
1 Nos. for RTD & BTD)

b) Suitable cable size : As per GAD

5.9 Speed Switch

a) Type : Not Applicable

b) Nos. provided : Not Applicable

c) Locations : Not Applicable

d) Contact Rating : Not Applicable

5.10 Vibration Pads : 2 Nos. (X & Y axis) in DE &
2 Nos. (X & Y axis) in NDE

6.0 GROUNDING

6.1 No. of grounding pads provided

a) On motor body : 2 Nos.

b) On terminal box : 2 Nos.

7.0 MISCELLANEOUS

7.1 Type of mounting : Horizontal Foot (B3)

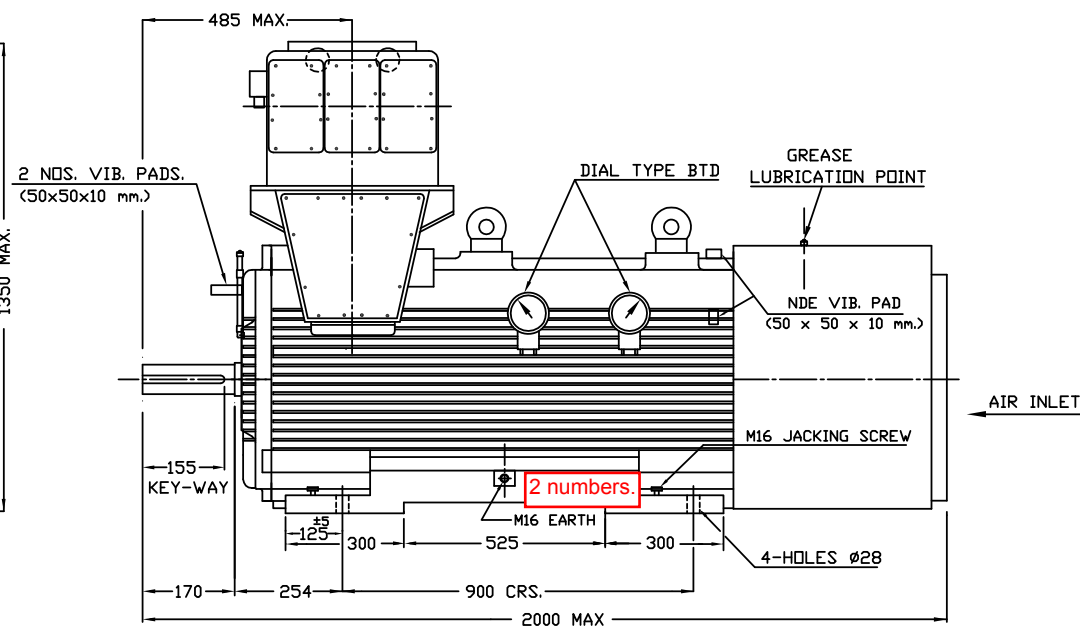
 Orissa Power Generation Corporation Ltd.	2X660 MW IB TPS Units 3&4	 BGR Energy Systems Ltd.
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- 7.2 Overall dimension (L x B x H) in mm : As per GAD
- 7.3 Moment of Inertia (Sq.GD)
- a) Rotor Kg.Sq.m : 36
- b) Load Kg.Sq.m : 28.2 (Primary side of fluid coupling)
- 7.4 Weight
- a) Stator Kg : 1890
- b) Rotor Kg : 760
- c) Total Kg : 2650
- 7.5 Document Enclosures
- a) Motor General Arrangement : Yes
- b) Motor Stator Terminal Box GA : Yes
- c) Motor Neutral Terminal Box GA : Yes
- d) Motor RTD Terminal Box GA : Yes
- e) Motor Space Heater Terminal Box GA : Yes
- f) Motor Performance Curves : Yes

Note: All above performance figures except as specified are subject to IS tolerance.

R1, Rev.01, Dt: 30.07.15

ALL DIMENSIONS ARE IN mm.



1-HOLE TAPPED
M24x3x60 DEEP

14
25
14
95
+0.035
+0.013

DETAILS OF SHAFT DRIVE END

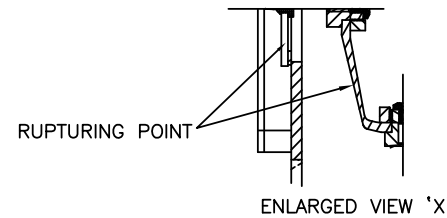
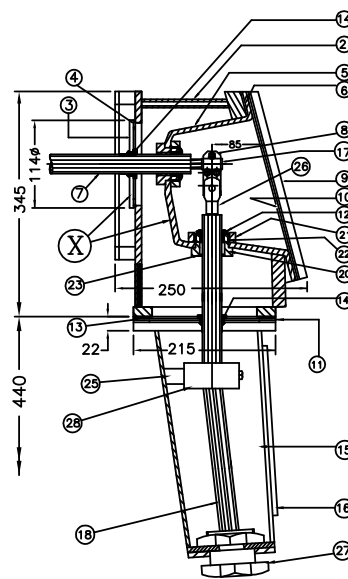
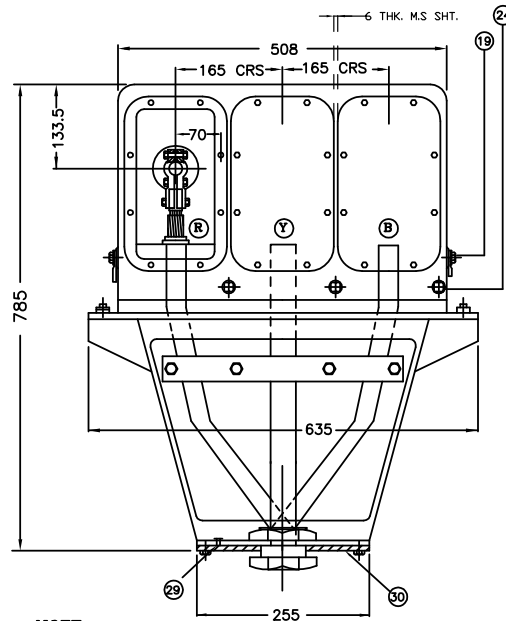
CUSTOMER : M/S. BGR ENERGY SYSTEMS Ltd.
CLIENT : ORISSA POWER GENERATION CORPORATION Ltd.
CONSULTANT : DEVELOPMENT CONSULTANTS Pvt. Ltd.
PROJECT : 2x660MW IB TPS UNIT 3&4
VENDOR : MARATHON ELECTRIC MOTORS (I) Ltd.

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DRAWING NO. REV.
A3C 13780-013 05

ALL DIMENSIONS ARE IN mm.
IF IN DOUBT, PLEASE ASK DESIGN DEPT.



DETAIL OF
CABLE CONNECTION

NOTE :-

1. T.BOX IS SUITABLE FOR FAULT LEVEL OF 43.7 KA FOR 0.25 SEC
2. PROVISION OF EARTHING TERMINATION ON THE BOX GIVEN-REF. ITEM NO.19
3. MIN. CREEPAGE DISTANCE = 116 mm.
4. MIN. DISTANCE BETWEEN PHASE & EARTH = 70 mm.
5. DEGREE OF PROTECTION IP55.
6. CABLE SIZE : 1x3Cx185 Sq.mm. 3.3KV, XLPE ARMOURED CABLE
7. PAINT SHADE 631 OF IS:5, EPOXY
8. T.BOX IS SUITABLE FOR ROTATION IN STEPS OF 180°
9. JOINT BOX(FOR PHASE SEGREGATION) - EPOXY MOULDED(2 mm. THK.)
10. GLAND PLATE : HOT/COLD ROLLED SHEET(3 mm. THK.)

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VENDOR : MARATHON ELECTRIC MOTORS (I) Ltd.

1	30	DETACHABLE GLAND PLATE	HOT/COLD ROLLED SHEET(3 mm. THK.)
1	29	DRAIN PLUG(M6)	STAINLESS STEEL
1	28	CABLE SUPPORT	FRP
1	27	DOUBLE COMPRESSION CABLE GLAND	BRASS NICKEL PLATED.
3	26	THIMBLE(CUSTOMER CABLE)	COPPER TIN PLATED
1	25	BOSS	M.S.
3	24	DESICCATOR & HUMIDITY INDICATOR	M.S. PLATED
3	23	GLAND WASHER	NYLON
3	22	GLAND BUSH	NEOPRINE
3	21	RING NUT	NYLON
3	20	GLAND BODY	NYLON
1	19	EARTHING TERMINAL M12 WITH THIMBLE	M.S
1	18	CUSTOMER CABLE	1x3Cx185 Sq.mm. 3.3KV, XLPE ARMOURED CABLE
3	17	FERRULE(MOTOR CABLE)	COPPER TIN PLATED
1	16	SLG. CHAMBER COVER PLATE	M.S.
1	15	SEALING CHAMBER	M.S.
3	14	GROMMET	NEOPRENE
1	13	TERMINAL SEALING PLATE	FRP
3	12	GLAND NUT	NYLON
1	11	GASKET FOR SLG. CHAMBER	NEOPRENE
3	10	EPOXY LINING ON TERMINAL COVER	EPOXY
3	9	TERMINAL COVER	M.S.
3	8	CABLE CLAMP	TINNED COPPER
1	7	CABLE (MOTOR)	CSP/SILICON CABLE
3	6	GASKET FOR LID	NEOPRENE
3	5	JOINT BOX	EPOXY MOULDED
1	4	GASKET FOR SLG. PLATE	NEOPRENE
1	3	SEALING PLATE (ROUND)	FRP
1	2	TERMINAL BOX	M.S.
1	1	P.S.T.B. ASSLY.	

G4	G3	G2	G1	PT.	NO.	DESCRIPTION	MATERIAL SPEC. DRAWING NO.
REF. DRG.							
A3C 13780-003						Marathon Electric Motors (India) Ltd. AEI WORKS, 1, TARATALA ROAD, KOLKATA-700024, INDIA	

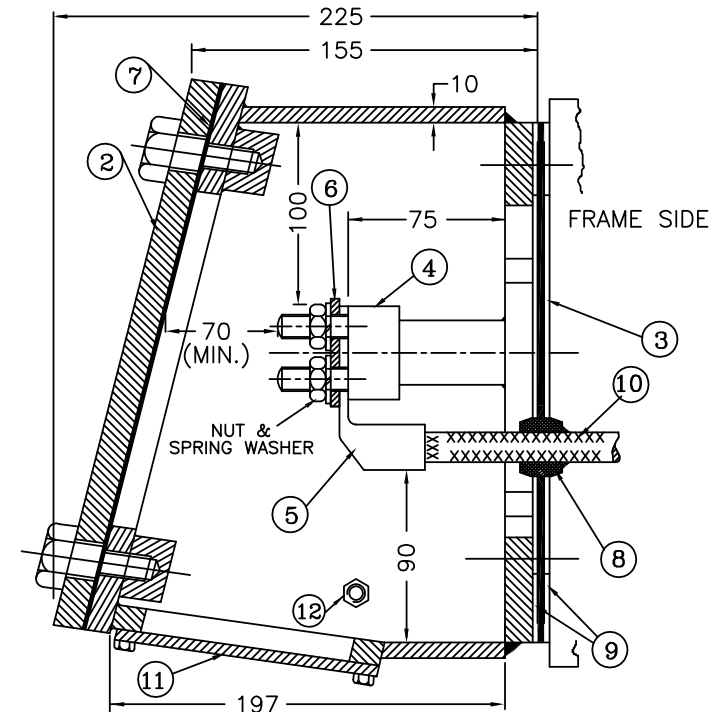
ASSLY. DRG. OF PHASE SEGREGATED TERMINAL BOX.

GEN. TOLERANCE	DRAWN	P.DAS	15.02.2008	DRAWING NO.	REV NO.
SCALE	TRACED				
NTS.	CHECKED	P.LAHIRI	15.02.2008	A3C 13780-013	05
	APP'D	G.MONDAL	15.02.2008		

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T.BOX../....A3C13780-013/A3C13780-013-03.05.14

ALL DIMENSIONS ARE IN mm.
IF IN DOUBT, PLEASE ASK DESIGN DEPT.



CUSTOMER : M/S. BGR ENERGY SYSTEMS Ltd.
CLIENT : ORISSA POWER GENERATION CORPORATION Ltd.
CONSULTANT : DEVELOPMENT CONSULTANTS Pvt. Ltd.
PROJECT : 2x660MW IB TPS UNIT 3&4
VENDOR : MARATHON ELECTRIC MOTORS (I) Ltd.

				12	EARTHING TERMINAL M12 WITH THIMBLE	M.S.
				11	ADAPTOR PLATE	M.S.
				10	CABLE	CSP/SILICON
				9	GASKETS (BOTTOM)	NEOPRENE
				8	GROMET	NEOPRENE
				7	GASKETS (TOP)	NEOPRENE
				6	SHORTING LINK (38 x 6)	CD PLTD. CU BAR
				5	MOTOR THIMBLE	COPPER
				4	TERMINAL BAR	EPOXY (MOULDED)
				3	SEALING PLATE	FRP
				2	COVER (543x267x10 THK.)	M.S.
				1	TERMINAL BOX	M.S.
G4	G3	G2	G1	PT. NO.	DESCRIPTION	MATERIAL SPEC. DRAWING NO.



marathon[®]
electric
A Regal Beloit Company

Marathon Electric Motors (India) Ltd.
AEI WORKS, 1, TARATALA ROAD,
KOLKATA-700024, INDIA

REV.	CHK'D.	REV.	CHK'D.	REV.	CHK'D.	REV.	CHK'D K.B/24.07.15
	APPV.D.		APPV.D.		APPV.D.	01	APPV,D.P.L/24.07.15
						CUSTOMER DETAILS ADDED.	

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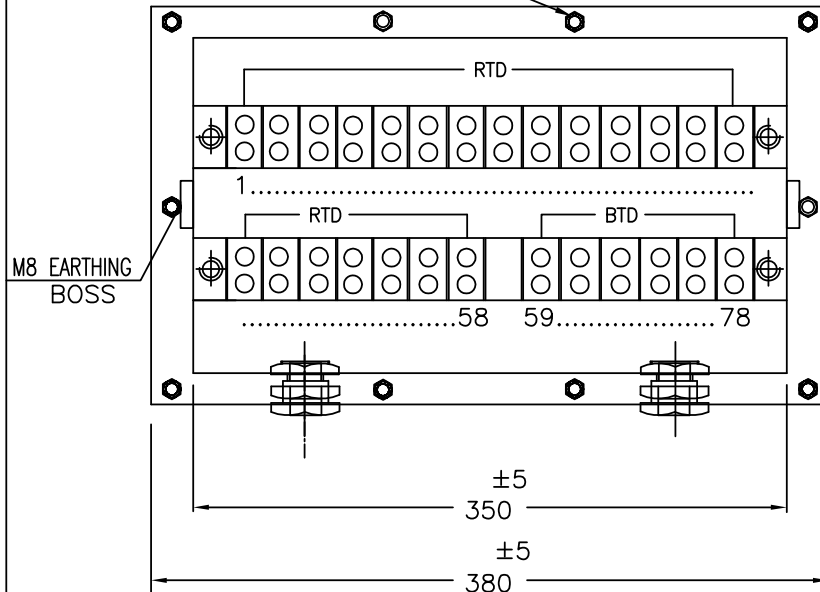
NEUTRALPOINT TERMINAL BOX

GEN. TOLERANCE		DRAWN	RANJAN.C	18.05.2015	DRAWING NO.	REV NO.		
		TRACED	---	---				
SCALE NTS.		CHECKED	P.DAS	18.05.2015			A3C 13903	01
		APPV'D	G.MONDAL	18.05.2015				

T.BOX ASSLY/H13903/H13903_24.07.15

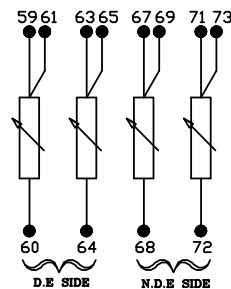
DRAWING NO.	REV.
A4C 18243-RTD-BTD	01

10 NOS. M5 X 20 LG. SCREW.

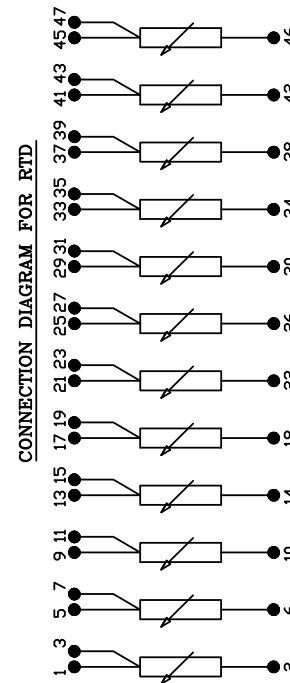


DEGREE OF PROTECTION OF T. BOX - IP55

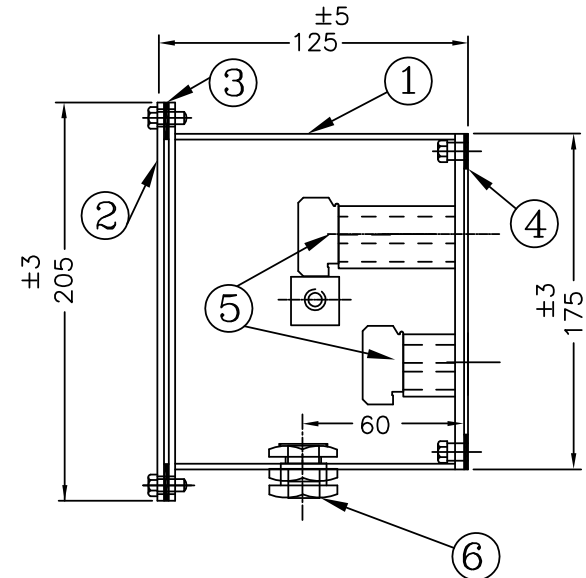
CONNECTION DIAGRAM FOR DUPLEX BTD



NOTE : 20% SPARE TERMINALS PROVIDED.



ALL DIMENSIONS ARE IN mm.



RTD CABLE - 12 TRIAD x 0.75 SQ. mm CONTROL CABLE
BTD CABLE - 4 TRIAD x 0.75 SQ. mm CONTROL CABLE

QTY	DESCRIPTION	MATERIAL SPEC.
2	DOUBLE COPM. GLAND	BRASS Ni-Cr PLATED
1	5 TERMINAL BLOCK (2.5 Sq.mm TERMINALS)	PHENOLIC BONDED INSULATOR
1	4 GASKET BOTTOM	NEOPRENE
1	3 GASKET TOP	NEOPRENE
1	2 BOX COVER	M.S.
1	1 RTD/BTD TERMINAL BOX	M.S.
QTY	DESCRIPTION	MATERIAL SPEC.
1	1 RTD/BTD TERMINAL BOX	M.S.

REF. DRG. G 15261-1		Marathon Electric Motors (India) Ltd. AEI WORKS, 1, TARATALA ROAD, KOLKATA-700024, INDIA
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REV.	CHK'D.	REV.	CHK'D.	REV.	CHK'D.	REV.	CHK'D.	REV.	CHK'D.
	APPV'D.		APPV'D.		APPV'D.		APPV'D.		APPV'D.

20% SPARE TERMINALS PROVIDED.

ARRANGEMENT OF RTD T.BOX

GEN. TOLERANCE	DRAWN	RANJAN.C	16.04.2014	DRAWING NO.	REV NO.
SCALE	TRACED				
NTS.	CHECKED	P.DAS	16.04.2014	A4C 18243-RTD-BTD	01
	APPV'D	G.MONDAL	16.04.2014		

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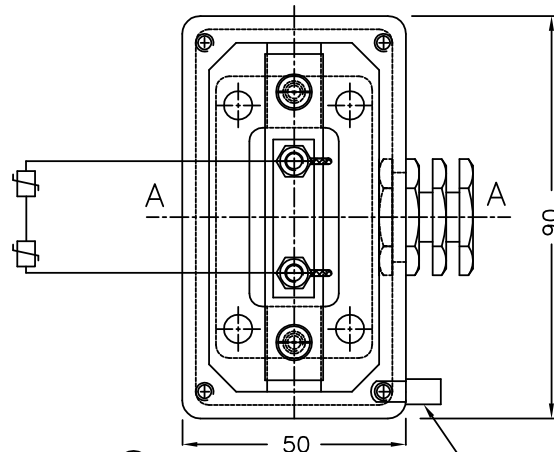
T.BOX.../...../A4C18243_RTD_BTD_ARRGN/A4C18243_RTD_BTD_ARRGN-16.04.14

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REV.	CHK'D	REV.	CHK'D	REV.	CHK'D	REV.	CHK'D
	APPV'D.		APPV'D.		APPV'D.		APPV'D.

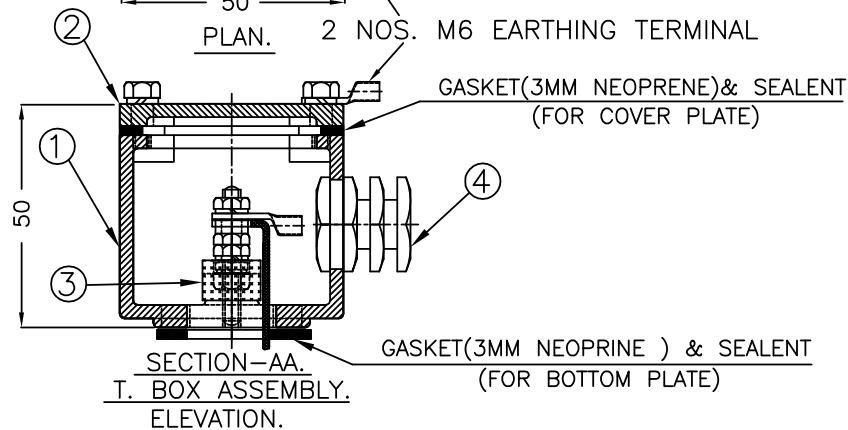
ALL DIMENSION, IN MM. UNLESS STATED OTHERWISE

CONNECTION & ASSEMBLY DRAWING FOR
SPACE HEATER

NOTE :-

CONNECT 240 V AC / PH-PH,
50 Hz. SUPPLY
TO EITHER OF THE TERMINALS.
DEGREE OF PROTECTION - IP55.

CUSTOMER : M/S. BGR ENERGY SYSTEMS Ltd.
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PROJECT : 2x660MW IB TPS UNIT 3&4
VENDOR : MARATHON ELECTRIC MOTORS (I) Ltd.



				4	DOUBLE COMPRESSION GLAND 2C x 2.5 SQ. mm	BRASS NICKEL PLATED
				3	TERMINAL BAR.	D.M.C.
				2	COVER.	ALUMINIUM
				1	TERMINAL BOX.	ALUMINIUM
G4	G3	G2	G1	PT. ND.	DESCRIPTION	MATERIAL SPEC. DRAWING NO.
QUANTITY						

REF. DRG.



Marathon Electric Motors (India) Ltd.
AEI WORKS, 1, TARATALA ROAD,
KOLKATA-700024, INDIA

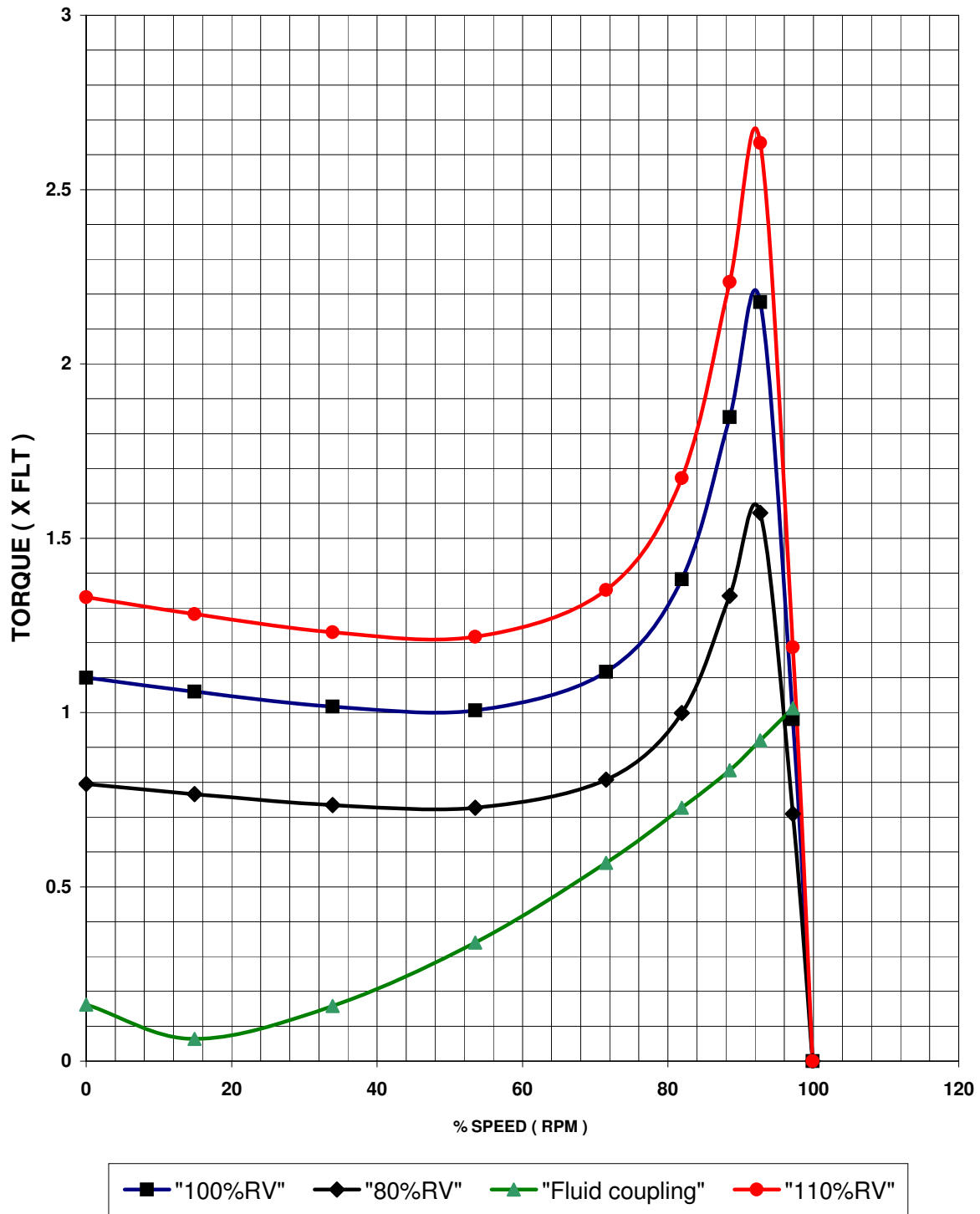
HEATER TERMINAL BOX ASSLY.

SCALE N.T.S.		GEN. TOLERANCE	DRAWN	RANJAN.C	22.07.2014	DRAWING NO.	REV NO.
			TRACED	-	-		
			CHECKED	P.DAS	22.07.2014	A4C 14150-001	00
			APPV'D	P.K.PAL	22.07.2014		

T.BOX.../...../A4C14150-001-24.07.15

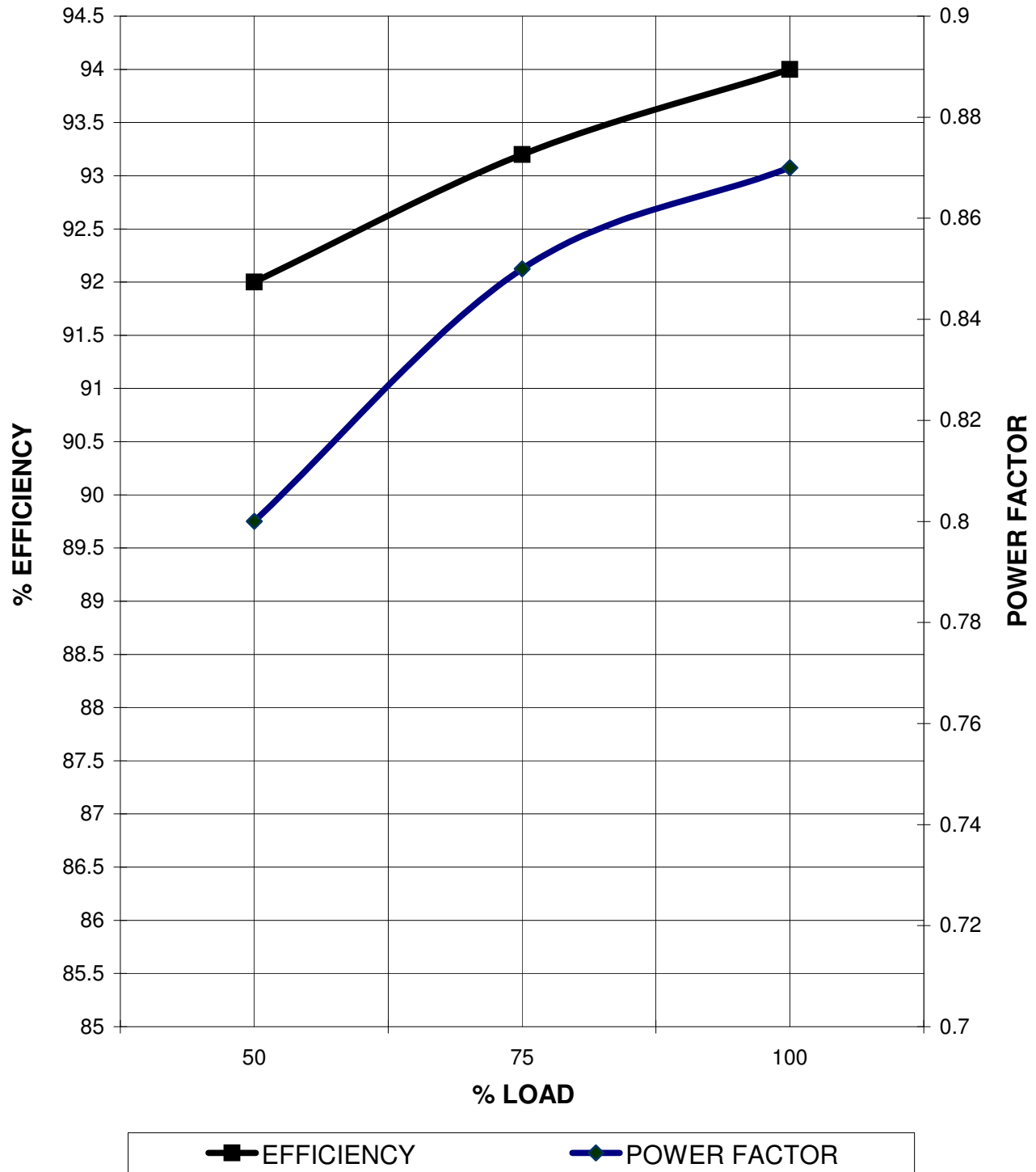
CUSTOMER : M/s BGR ENERGY LTD.
CLIENT ; ORISSA POWER GENERATION CORPORATION Ltd.
CONSULTANT : DEVELOPMENT CONSULTANTS Pvt. Ltd.
PROJECT : 2 X 660 MW 1B. TPS UNIT: 3 4
VENDOR : MARATHON ELECTRIC MOTORS (I) Ltd.

TORQUE Vs. SPEED CHARACTERISTIC CURVE
315 KW, 4 POLE, 3300 V, DC355F3 MOTOR

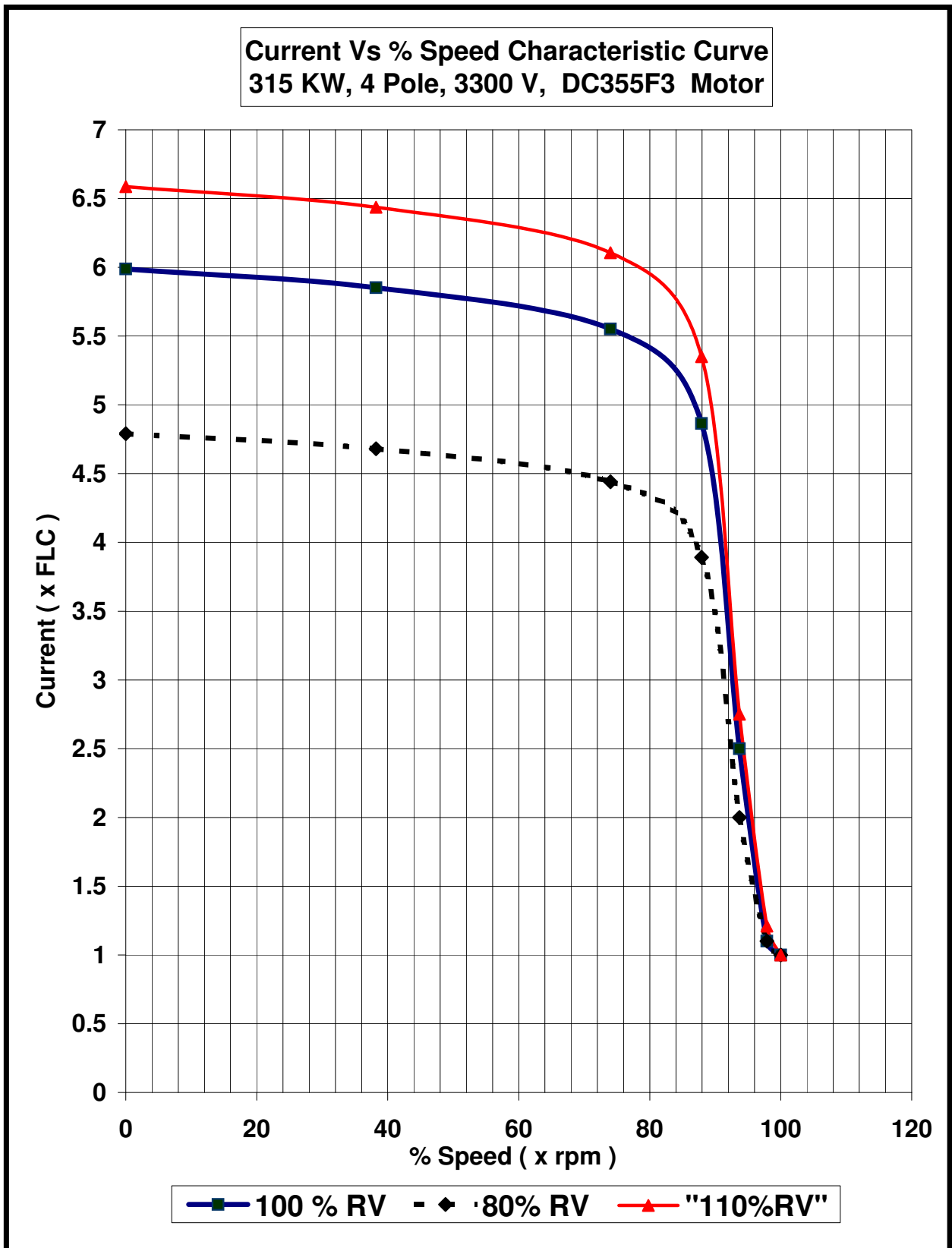


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VENDOR : MARATHON ELECTRIC MOTORS (I) Ltd.

EFFICIENCY & POWER FACTOR VS % LOAD CURVE
315 KW, 4 POLE, 3300 V, DC355F3 Motor

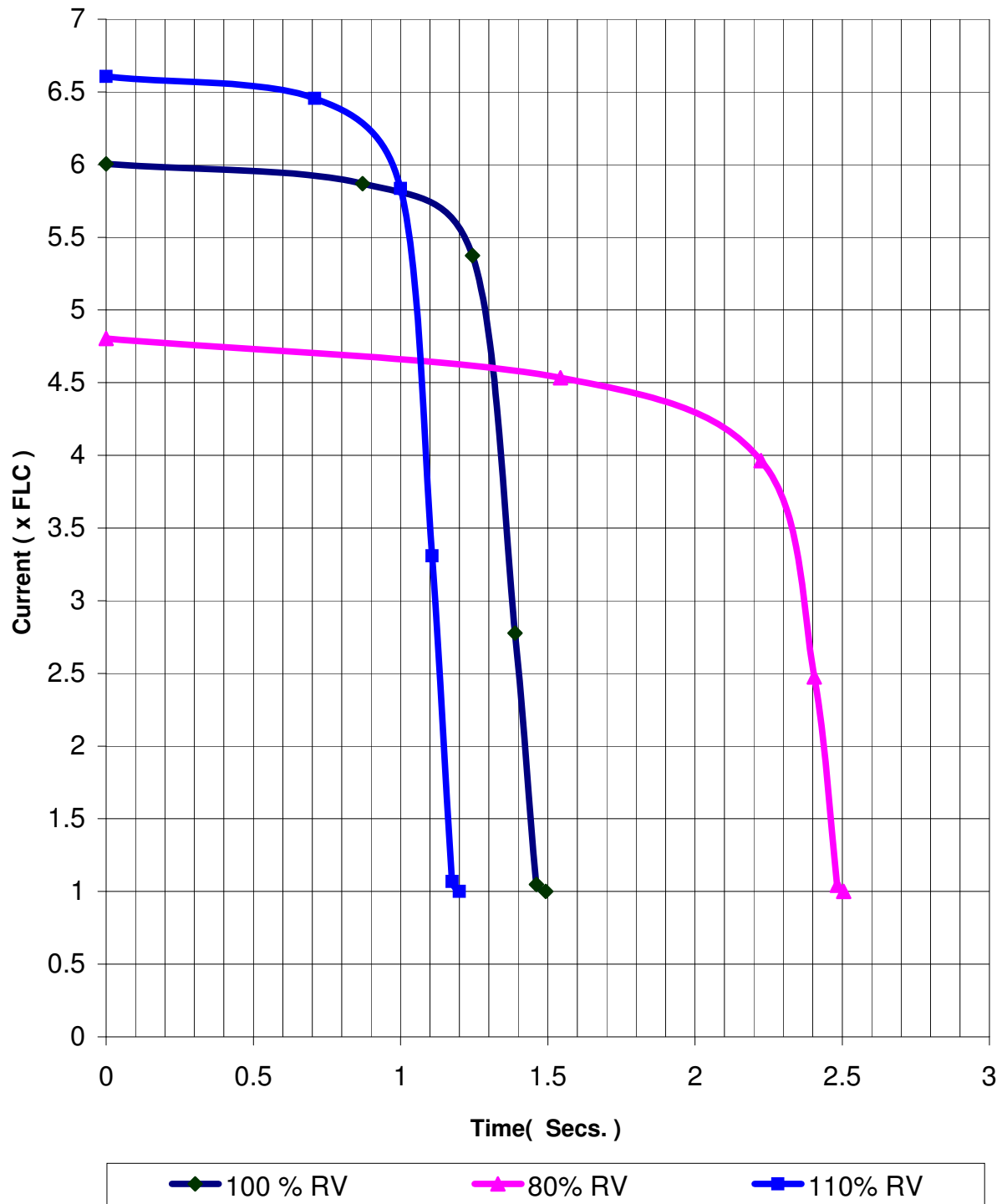


CUSTOMER : M/s BGR ENERGY LTD.
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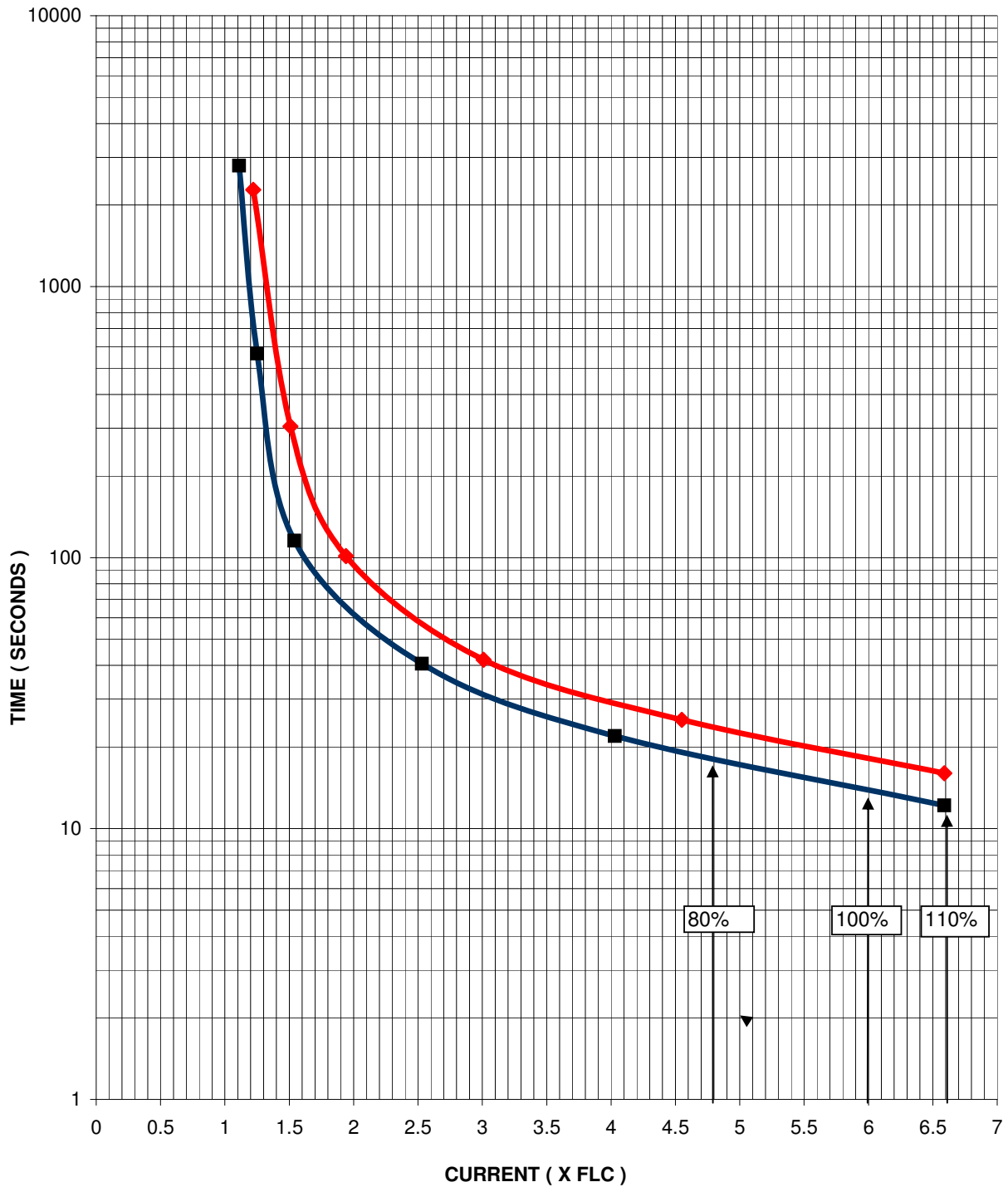
CUSTOMER : M/s BGR ENERGY LTD.
CLIENT ; ORISSA POWER GENERATION CORPORATION Ltd.
CONSULTANT : DEVELOPMENT CONSULTANTS Pvt. Ltd.
PROJECT : 2 X 660 MW 1B. TPS UNIT: 3 4
VENDOR : MARATHON ELECTRIC MOTORS (I) Ltd.

Current Vs % Time Characteristic Curve
315 KW, 4 Pole, 3300 V, DC355F3 Motor



CUSTOMER : M/s BGR ENERGY LTD.
CLIENT ; ORISSA POWER GENERATION CORPORATION Ltd.
CONSULTANT : DEVELOPMENT CONSULTANTS Pvt. Ltd.
PROJECT : 2 X 660 MW 1B. TPS UNIT: 3 4
VENDOR : MARATHON ELECTRIC MOTORS (I) Ltd.

THERMAL WITHSTAND CHARACTERISTICS CURVE
315 KW, 4 POLE, 3300 V, DC355F3 Motor



■ HOT ◆ COLD

CUSTOMER : M/s BGR ENERGY LTD.
CLIENT ; ORISSA POWER GENERATION CORPORATION Ltd.
CONSULTANT : DEVELOPMENT CONSULTANTS Pvt. Ltd.
PROJECT : 2 X 660 MW 1B. TPS UNIT: 3 4
VENDOR : MARATHON ELECTRIC MOTORS (I) Ltd.

