

450KW S.R.MOTOR - DATA SHEET

DRG No. MEC/11/E1/Q7EA/82T/003

Rev.00	
Date 29.11.2016	
Technical Data Sheet - Marathon Electric make Motors	
Indent Ref. : AEI/E/09/0145	
DESCRIPTION	
General	
Application	Crusher
Quantity	1
Make	M/s. Marathon Electric Motors (I) Ltd.
Frame Size	NDW710W
Application standard	IS:325
Type Of Motor	CACW Slip Ring Induction Motor
Duty Cycle	S1
Rated Continuous Output at 50 Deg C	450KW
Pole	10 Pole
Rated Speed	595 r.p.m.
Rated Voltage & Variation Range	6600 V +/-10%
Rated Frequency & Variation Range	50 Hz. +/-5%
Combine Variation	10%
Full Load Current	53.5 Amps
P.F at (100%, 75%, 50%) rated voltage & Frequency	0.79/0.73/0.60
Efficiency at (100%, 75%, 50%) rated voltage & Frequency (%)	93.5/92.8/91.3
Rotor Voltage	686 Volts +/-5%
Rotor Ampe.	396 Amps +/-5%
Stator Connection	Star
Rotor Connection	Star
Method of Starting	Rotor resistance starter
Starting Current	Depends on rotor resistance starter
Starting Torque	Depends on rotor resistance starter
P. O. T.	270% of FLT
Degree of Protection	IP:55
Method of Cooling	IC 6A1W7
Insulation Class	" F "
Temperature Rise Over 45 Deg. C Amb (By Resistance method)	Class "B"
Tropicalised	Yes
Bearing -Make	SKF/FAG/NTN/Equivalent
Type	Anti-Friction
Recommended Lubricant	Grease
Type of Mounting	Horizontal Foot (B3)
Motor GD2	1506 KgM2
Direction of Rotation	Bidirectional
<p>Note :</p> <ol style="list-style-type: none"> 1) All above performance figures are subject to IS tolerance. 2) Motor is fitted with 6 Nos. Pt.100, Simplex Type RTD, 2 Nos. Pt.100 Duplex Type BTM, Space Heater suitable for 240 Volt Supply, 50 Hz., 1-Ph., 1 no. PSTB, 1 no. NPT, 1 no. std. air insulated Rotor Terminal box 3) Noise & Vibration level will be as per IS. 4) Paint shade 631 of IS:5 5) Complete routine test as per IS:325 will be conducted. 	

Approved

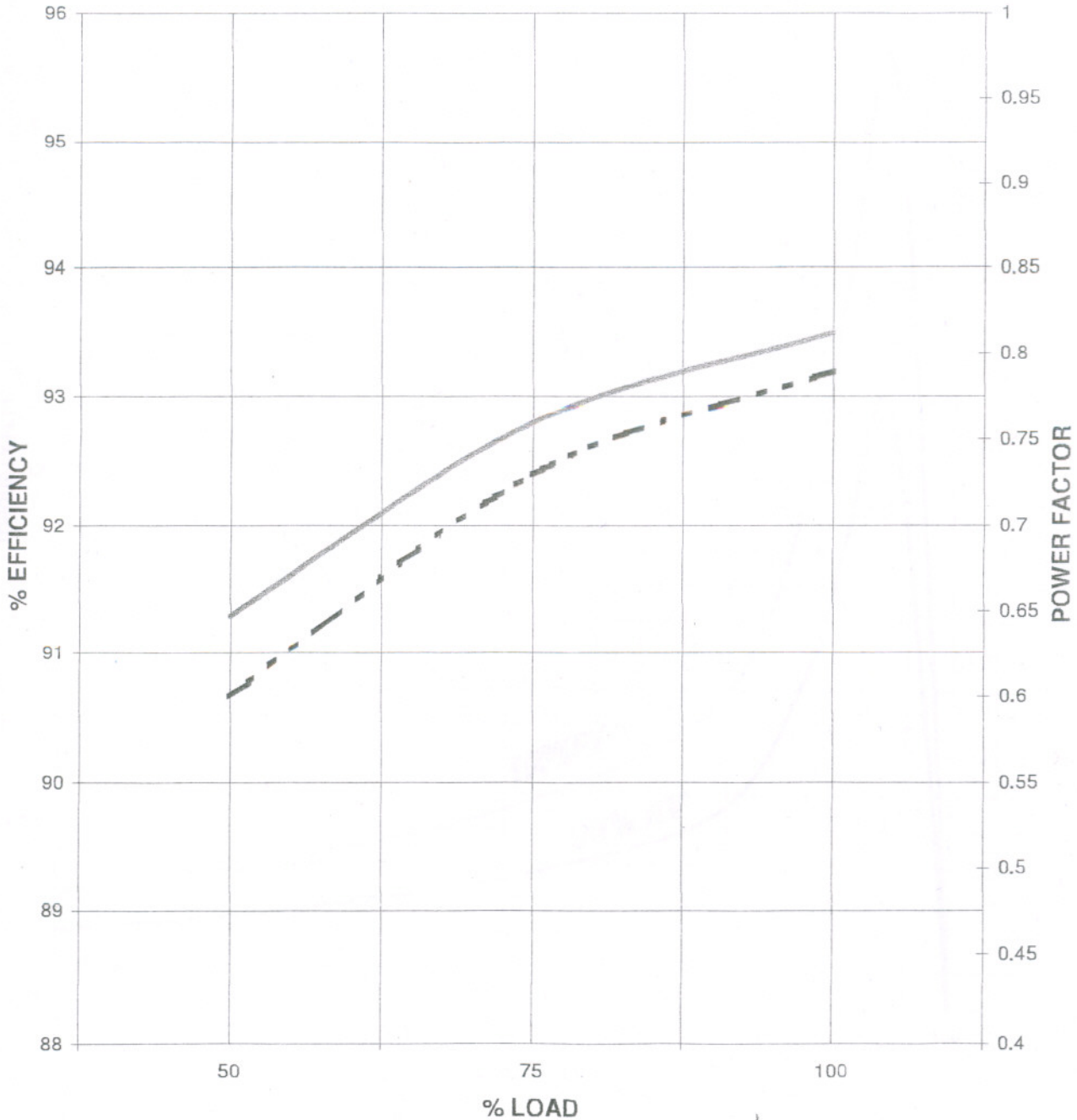
Prakash

06/02/2017

S. R. Gupta
 D. S. Choudhary
 B. S. Choudhary



EFFICIENCY & POWER FACTOR VS % LOAD CURVE
450 KW, 10 POLE, 6600V, NDW710W Motor



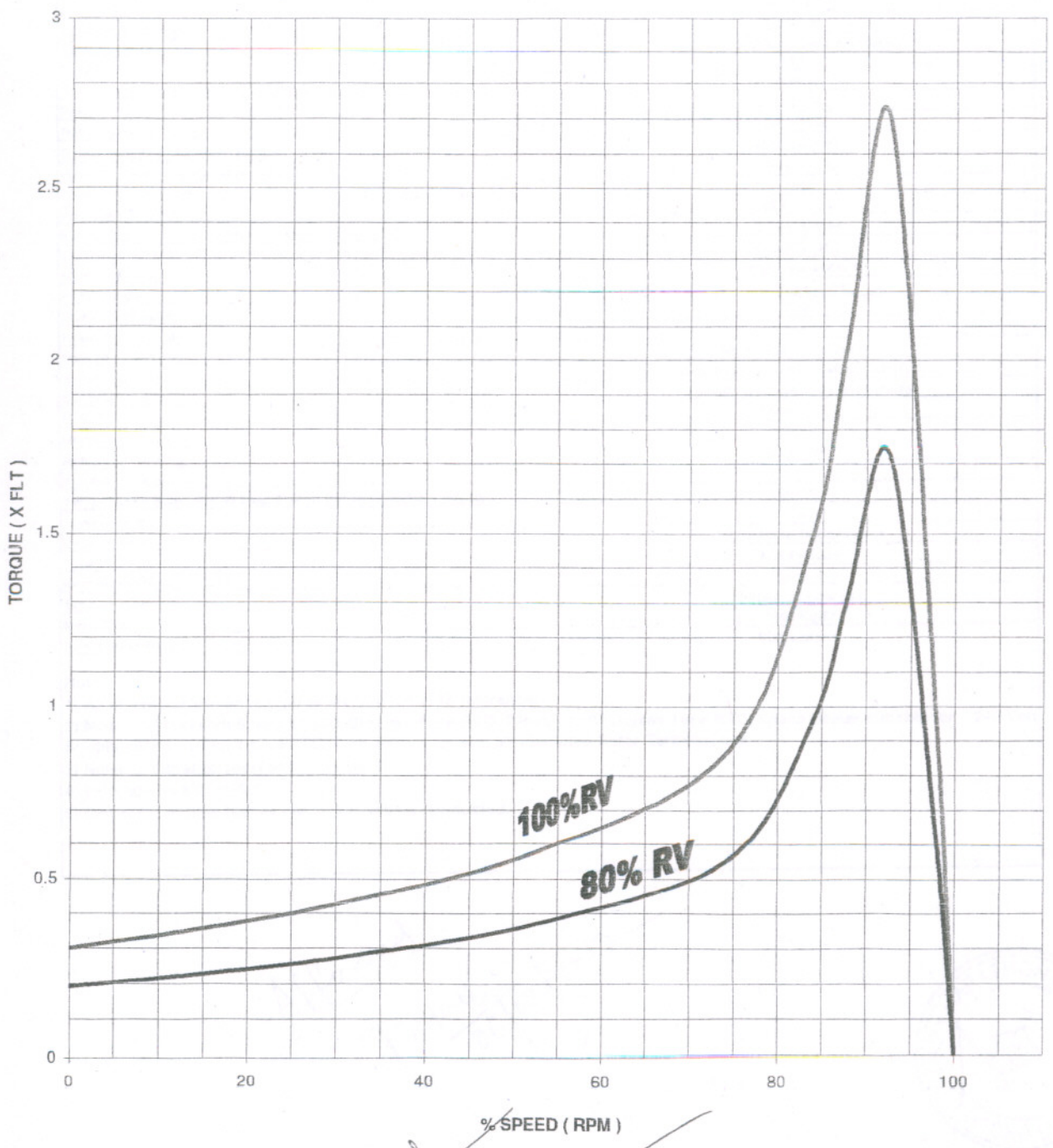
— EFFICIENCY - - - POWER FACTOR

Marathon Electric Motors (I) Ltd.

Approved
Patil
26/02/2014



TORQUE Vs. SPEED CHARACTERISTIC CURVE
 (Without External resistance to rotor ckt.)
 450KW, 10 POLE, 6600 V, NDW710W MOTOR



Approved
Prakash
06/02/2017

Marathon Electric

T-S Chart 3
 M. K. ...
 Di ...
 B. ...

