ABB BALDOR RELIANCE

Customer information packet

M1708T

5/2.5HP, 1740/865RPM, 3PH, 60HZ, 213T, 3742M
Class - None
Division - Not Applicable

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11/10/2026 8:59:00 AM

Specifications

Enclosure	TEFC
Frame	213T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	5.000 HP @ 60 HZ
	2.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	UR
	CSA
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	6.300 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	5.2 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K

Part Detail

Revision	C
Type	AC
Mech. spec.	37T397
Base	
Status	PRD/A
Elec. spec.	37WGZ656
Layout	37LYT397
Eff. date	05-14-2024
CD Diagram	CD0011
Poles	04/08
Leads	6#14
Proprietary	False
Created date	12-11-2020

Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3742M
Mounting Arrangement	F1
Number of Poles	4
	8
Overall Length	19.01 IN
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1740 rpm
	865 rpm
Speed Code	2S-1W-CT
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1256L											
CAT.NO.	M1708T										
SPEC.	37T397Z656G1										
HP	5/2.5										
VOLTS	460										
AMP	6.3/5.2										
RPM	1740/865										
FRAME	213T		**HZ**	60			**PH**	3			
SER.F.	1.15	**CODE**	K	**DES**	B	**CLASS**	F				
NEMA-NOM-EFF		**PF**									
RATING	40C AMB-CONT										
CC											
DE	6307		**ODE**	6206							
ENCL	TEFC	**SN**									
	SFA 7.2/5.5										

Accessories

Part number	Description	Multiplier
37-3301	C FACE KIT	P1

AC Induction Motor Performance Data
Record # 85795
Preliminary Data Sheet

Winding: 37WGZ656-R001	**Type:** 3742M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			5/2.5
Volts			460
Full Load Amps			6.3/5.2
R.P.M.			1740/865
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	K
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	0	**Power Factor**	0
Rating - Duty			40C AMB-CONT
S.F. Amps			7.2/5.5

460 V, 60 Hz: High Speed Connection	
Full Load Torque	14.96 LB-FT
Start Configuration	direct on line
Breakdown Torque	64.46 LB-FT
Pull-up Torque	18.85 LB-FT
Locked-rotor Torque	43.06 LB-FT
Starting Current	51.88 A
No-load Current	2.68 A
Line-line Res. @ 25ºC	3.04 Ω
Temp. Rise @ Rated Load	53°C
Temp. Rise @ S.F. Load	66°C
Locked-rotor Power Factor	57.3
Rotor inertia	1.03 lb-ft²

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	48	71	81	86	88	90	87
Efficiency	82	86.3	86.2	85.9	84.8	82.3	85.2
Speed	1787	1773	1759	1743	1726	1705	1733
Line amperes	3	3.85	4.99	6.32	7.78	9.5	7.2

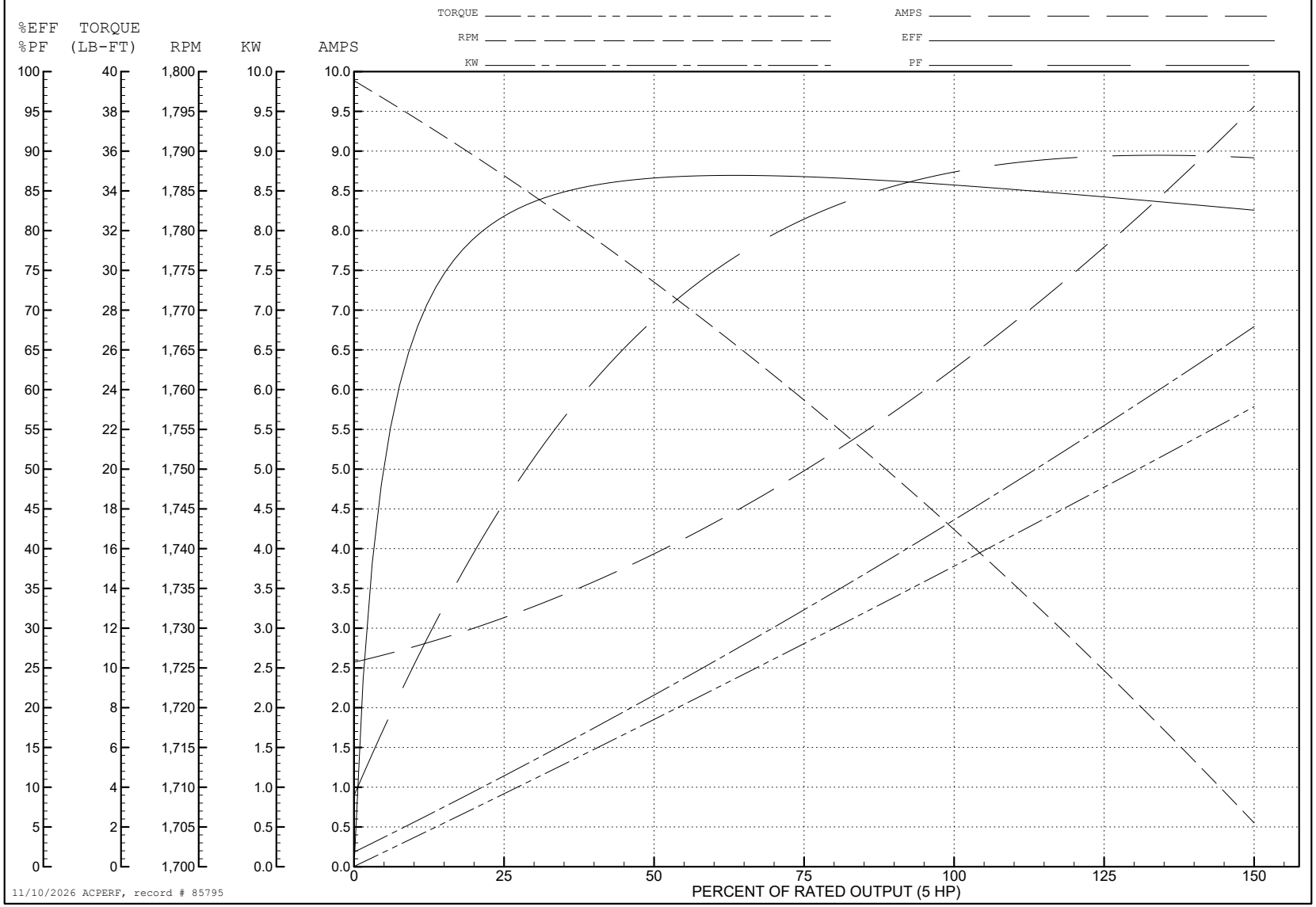
ABB Motors and Mechanical Inc.

WINDING # 37WGZ656

5 HP 3 PH 60 HZ 1743 RPM 460 V 3742M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=64.46 PU=18.85 LR=43.06 LRA=51.88



11/10/2026 ACPERF, record # 85795

AC Induction Motor Performance Data
Record # 85796
Preliminary Data Sheet

Winding: 37WGZ656-R001	**Type:** 3742M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			5/2.5
Volts			460
Full Load Amps			6.3/5.2
R.P.M.			1740/865
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	K
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	0	**Power Factor**	0
Rating - Duty			40C AMB-CONT
S.F. Amps			7.2/5.5

460 V, 60 Hz: Low Speed Connection	
Full Load Torque	15 LB-FT
Start Configuration	direct on line
Breakdown Torque	62.8 LB-FT
Pull-up Torque	24.2 LB-FT
Locked-rotor Torque	37.1 LB-FT
Starting Current	27 A
No-load Current	4.96 A
Line-line Res. @ 25ºC	4.14 Ω
Temp. Rise @ Rated Load	55°C
Temp. Rise @ S.F. Load	62°C
Locked-rotor Power Factor	57.3
Rotor inertia	1.03 lb-ft²

Load Characteristics 460 V, 60 Hz, 2.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	18	29	40	49	56	62	53
Efficiency	66	77.8	82.2	83.9	84.5	84.4	84.3
Speed	894.1	888.6	882.8	876.7	870.3	863.4	873
Line amperes	5	5.14	5.39	5.73	6.17	6.7	5.99

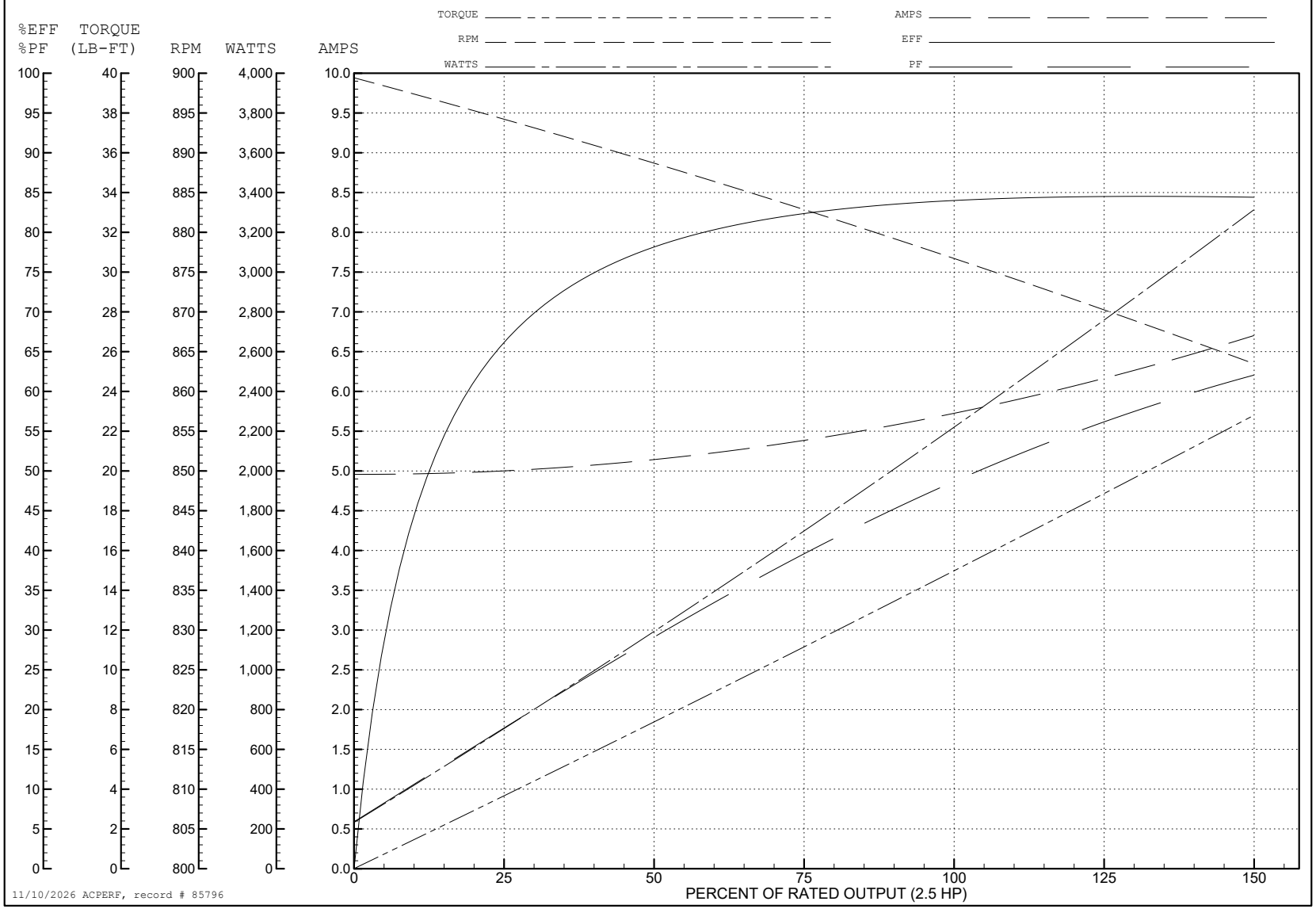
ABB Motors and Mechanical Inc.

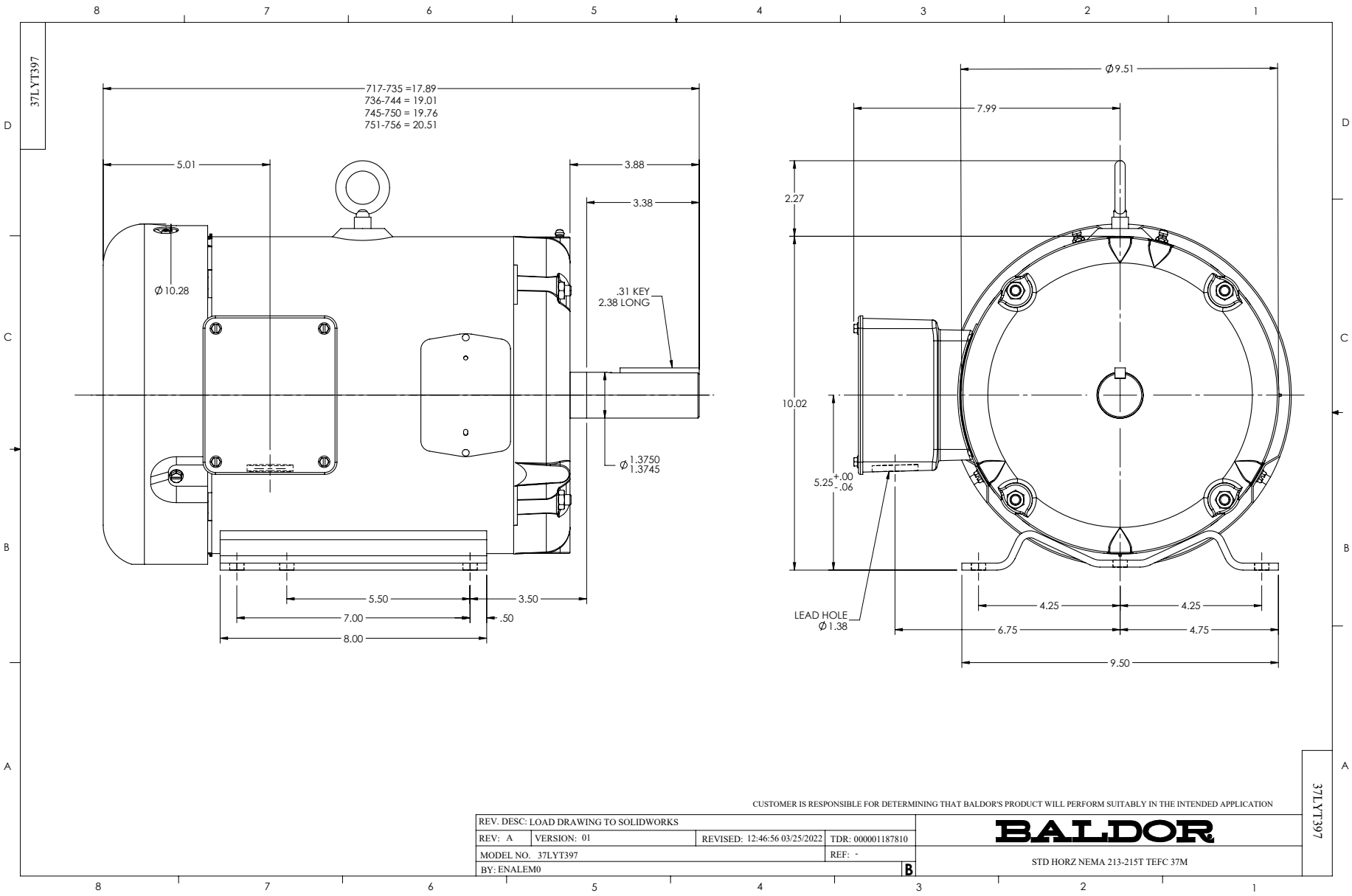
WINDING # 37WGZ656

2.5 HP 3 PH 60 HZ 876.7 RPM 460 V 3742M

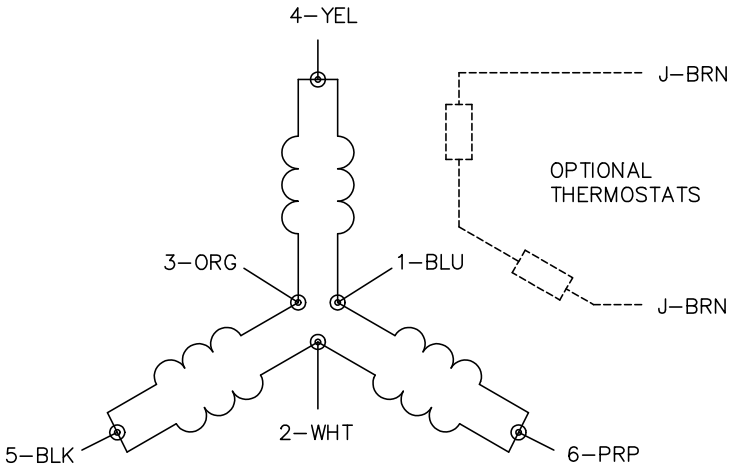
Typical performance - not guaranteed values.

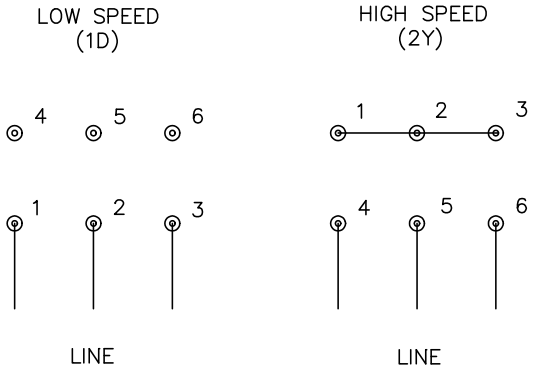
TORQUES(LB-FT): PO=62.8 PU=24.2 LR=37.1 LRA=27




37LYT397
717-735 =17.89
736-744 = 19.01
745-750 = 19.76
751-756 = 20.51
5.01
3.88
3.38
Ø10.28
.31 KEY
2.38 LONG
Ø1.3750
1.3745
5.50
3.50
7.00
.50
8.00
Ø9.51
7.99
2.27
10.02
5.25 +.00 -.06
LEAD HOLE
Ø1.38
4.25
4.25
6.75
4.75
9.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD DRAWING TO SOLIDWORKS
REV: A
VERSION: 01
REVISED: 12:46:56 03/25/2022
TDR: 000001187810
MODEL NO. 37LYT397
REF: -
BY: ENALEM0
B
BALDOR
STD HORZ NEMA 213-215T TEFC 37M
37LYT397

CD0011





NOTES:
1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: F	BY: JLP	REVISED: 01/21/99 5:04	TDR: 0171435
CD0011		FILE: DWG\142.wg	MDL: –
		MTL: –	3PH, SV, 6 LEADS, 2–SPEED 1–WINDING CONSTANT TORQUE

CD0011