ABB BALDOR RELIANCE

Customer information packet

M1759T

7.5/1.9HP, 1745/870RPM, 3PH, 60HZ, 213T, 3742
Class - None
Division - Not Applicable

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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	7.500 HP @ 60 HZ
	1.900 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	9.200 A @ 460.0 V
Design Code	A
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	3.5 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	L

Part Detail

Revision	F
Type	AC
Mech. spec.	37T397
Base	
Status	PRD/A
Elec. spec.	37WGZ652
Layout	37LYT397
Eff. date	08-20-2026
CD Diagram	CD0032
Poles	04/08
Leads	6#14
Proprietary	False
Created date	12-10-2020

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	1745 rpm
	870 rpm
Speed Code	2S-1W-VT
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.	M1759T										
SPEC.	37T397Z652G1										
HP	7.5/1.9										
VOLTS	460										
AMP	9.2/3.5										
RPM	1745/870										
FRAME	213T	**HZ**	60			**PH**	3				
SER.F.	1.15	**CODE**	L	**DES**	A	**CLASS**	F				
NEMA-NOM-EFF		**PF**									
RATING	40C AMB-CONT										
CC											
DE	6307	**ODE**	6206								
ENCL	TEFC	**SN**									

Accessories

Part number	Description	Multiplier
37-3301	C FACE KIT	P1

AC Induction Motor Performance Data
Record # 85763
Typical performance - not guaranteed values

Winding: 37WGZ652-R001	**Type:** 3742M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			7.5/1.9
Volts			460
Full Load Amps			9.2/3.5
R.P.M.			1745/870
Hz	60	**Phase**	3
NEMA Design Code	A	**KVA Code**	L
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	0	**Power Factor**	0
Rating - Duty			40C AMB-CONT
S.F. Amps			

460 V, 60 Hz: High Voltage, High Speed Connection	
Full Load Torque	22.48 LB-FT
Start Configuration	direct on line
Breakdown Torque	76.59 LB-FT
Pull-up Torque	45.72 LB-FT
Locked-rotor Torque	57.14 LB-FT
Starting Current	91.28 A
No-load Current	3.49 A
Line-line Res. @ 25ºC	2.27 Ω
Temp. Rise @ Rated Load	59°C
Temp. Rise @ S.F. Load	75°C
Locked-rotor Power Factor	53.5
Rotor inertia	1.03 lb-ft²

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	50	73	83	87	89	91	85
Efficiency	86.2	89.1	88.2	87	85.1	82.8	86.8
Speed	1787	1774	1759	1745	1729	1710	1760
Line amperes	4.03	5.39	7.11	9.18	11.49	14.02	10.8

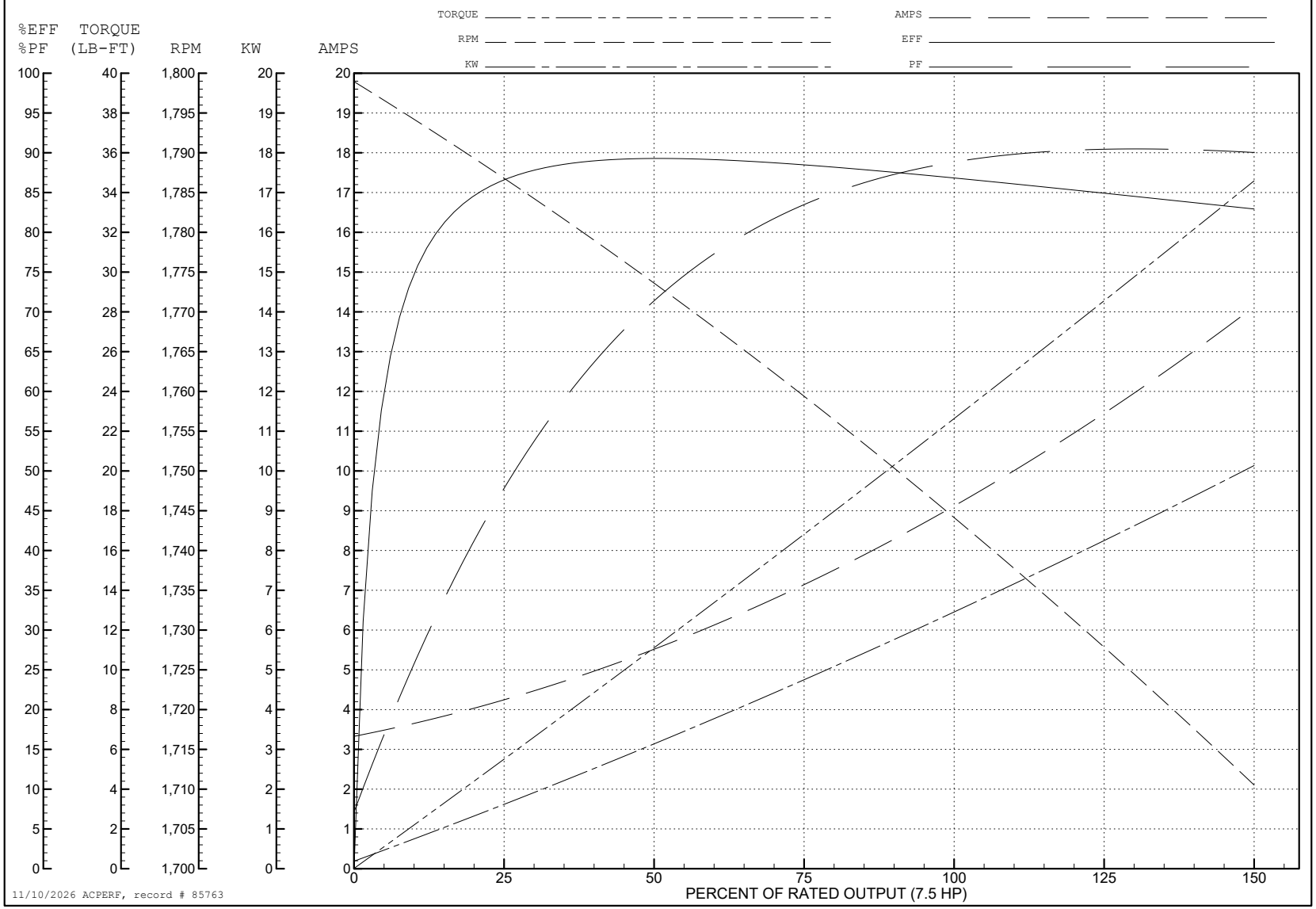
ABB Motors and Mechanical Inc.

WINDING # 37WGZ652

7.5 HP 3 PH 60 HZ 1745 RPM 460 V 3742M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=76.59 PU=45.72 LR=57.14 LRA=91.28



AC Induction Motor Performance Data
Record # 85765
Typical performance - not guaranteed values

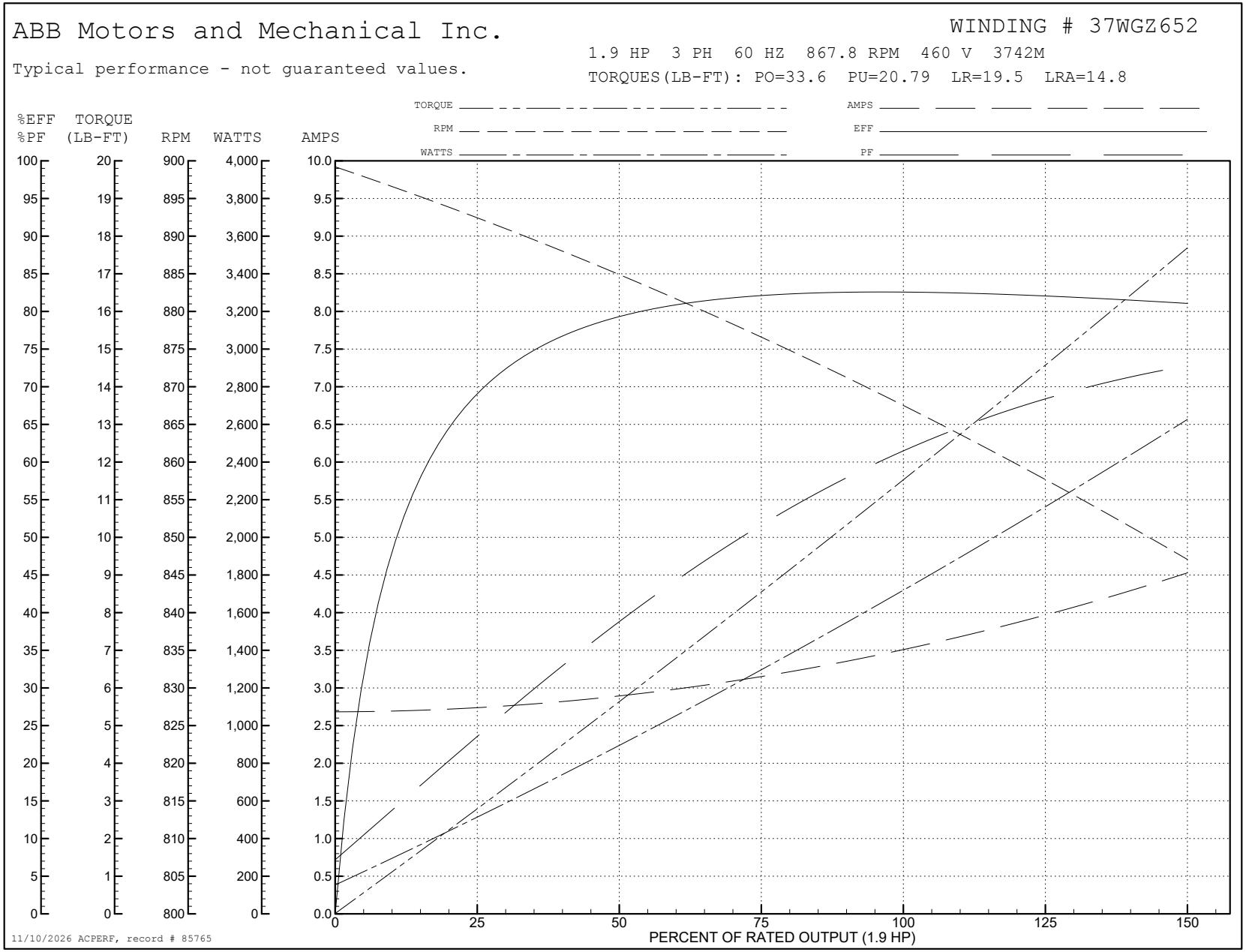
Winding: 37WGZ652-R001	**Type:** 3742M	**Enclosure:** TEFC

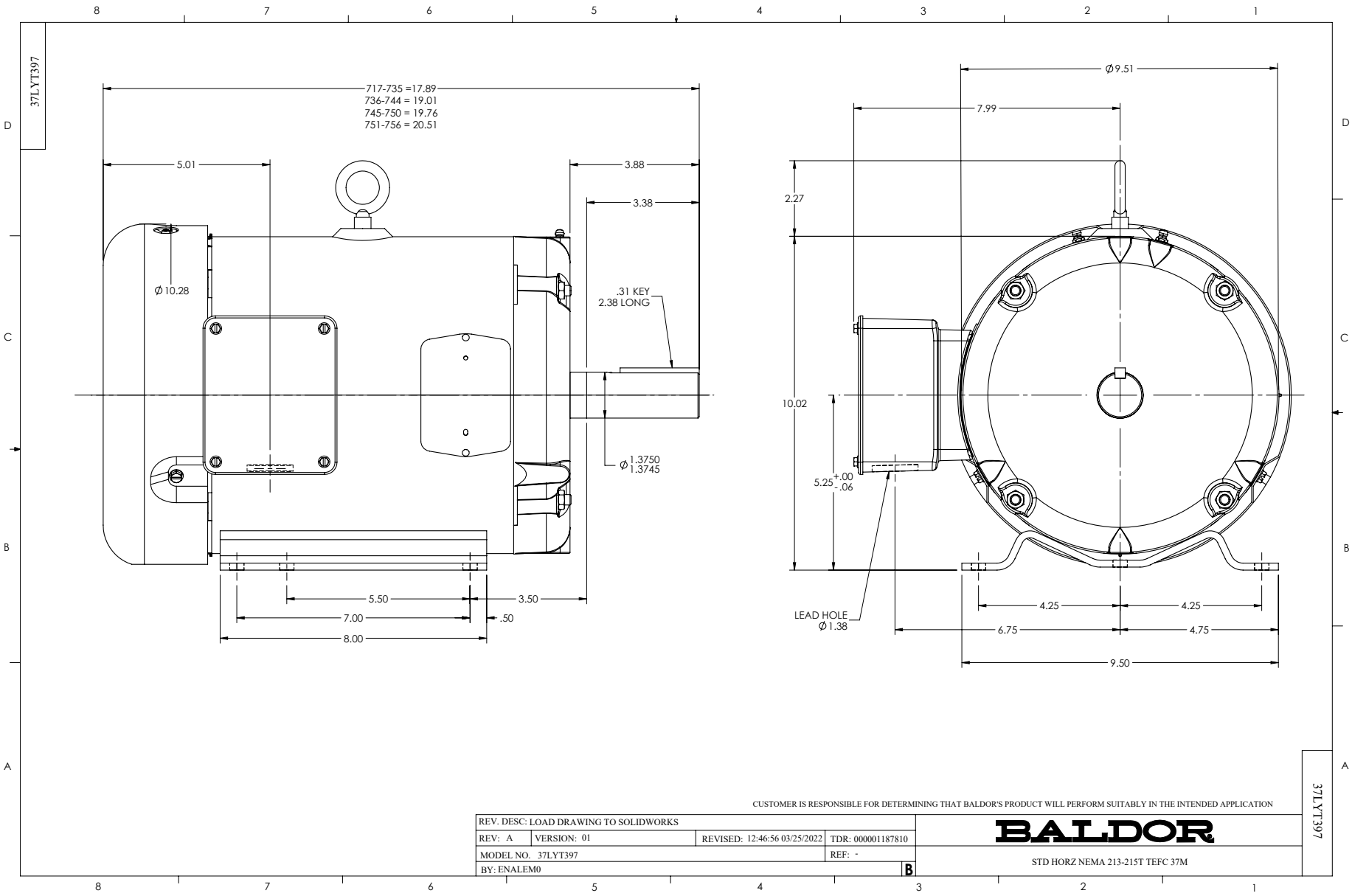
Nameplate Data			
Rated Output (HP)			7.5/1.9
Volts			460
Full Load Amps			9.2/3.5
R.P.M.			1745/870
Hz	60	**Phase**	3
NEMA Design Code	A	**KVA Code**	L
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	0	**Power Factor**	0
Rating - Duty			40C AMB-CONT

460 V, 60 Hz: Low Speed Connection	
Full Load Torque	11.5 LB-FT
Start Configuration	direct on line
Breakdown Torque	33.6 LB-FT
Pull-up Torque	20.79 LB-FT
Locked-rotor Torque	19.5 LB-FT
Starting Current	14.8 A
No-load Current	2.69 A
Line-line Res. @ 25ºC	9.06 Ω
Temp. Rise @ Rated Load	
Locked-rotor Power Factor	48.2
Rotor inertia	1.03 lb-ft²

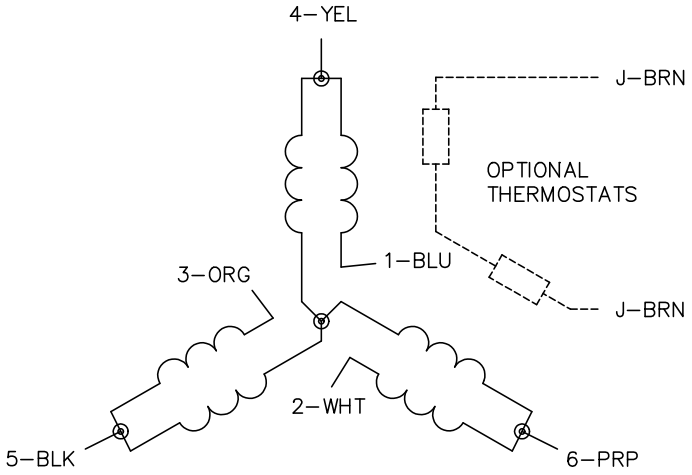
Load Characteristics 460 V, 60 Hz, 1.9 HP

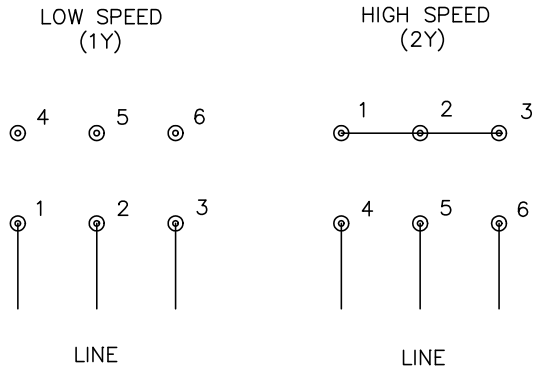
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	24	39	52	61	68	73	60
Efficiency	68.7	79.1	82.2	82.8	82.3	80.9	82.5
Speed	892.2	884.7	876.6	867.8	858	846.9	876
Line amperes	2.73	2.89	3.15	3.51	3.97	4.52	4.1


ABB Motors and Mechanical Inc.
WINDING # 37WGZ652
1.9 HP 3 PH 60 HZ 867.8 RPM 460 V 3742M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=33.6 PU=20.79 LR=19.5 LRA=14.8
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1.9 HP)
11/10/2026 ACPERF, record # 85765


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

CD0032





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.

CD0032

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/22/99 8:27	TDR: 0171435
CD0032		FILE: AAA00005145	MDL: –
		MTL: –	3PH, SV, 6 LEADS, 2–SPEED 1–WINDING VARIABLE TORQUE