ABB BALDOR RELIANCE

Customer information packet

M1724T

5/2.2HP, 1725/1140RPM, 3PH, 60HZ, 215T, 3740M
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	215T
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
	2.200 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 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	6.400 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	3.5 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K

Part Detail

Revision	E
Type	AC
Mech. spec.	37T397
Base	
Status	PRD/A
Elec. spec.	37WGY494
Layout	37LYT397
Eff. date	05-14-2024
CD Diagram	CD0013
Poles	04/06
Leads	6#14
Proprietary	False
Created date	06-11-2019

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	3740M
Mounting Arrangement	F1
Number of Poles	4
	6
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	1140 rpm
	1725 rpm
Speed Code	2S-2W-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.	M1724T									
SPEC.	37T397Y494G1									
HP	5/2.2									
VOLTS	460									
AMP	6.4/3.5									
RPM	1725/1140									
FRAME	215T	**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**								

Accessories

Part number	Description	Multiplier
37-3301	C FACE KIT	P1

AC Induction Motor Performance Data
Record # 36702
Typical performance - not guaranteed values

Winding: 37WGY494-R004	**Type:** 3740M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Speed Connection**	
Rated Output (HP)			5/2.2	**Full Load Torque**	15 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			6.4/3.5	**Breakdown Torque**	51 LB-FT
R.P.M.			1725/1140	**Pull-up Torque**	36 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	51 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	58 A
Service Factor (S.F.)			1.15	**No-load Current**	2.7 A
NEMA Nom. Eff.	0	**Power Factor**	0	**Line-line Res. @ 25ºC**	3.31 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	80°C
S.F. Amps				**Temp. Rise @ S.F. Load**	96°C

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	51	70	80	83	85	85	84
Efficiency	75.9	82.2	83.2	81.4	79.4	76	80.2
Speed	1780	1761	1743	1721	1697	1665	1707
Line amperes	3.1	4.1	5.3	6.8	8.4	10.4	7.76

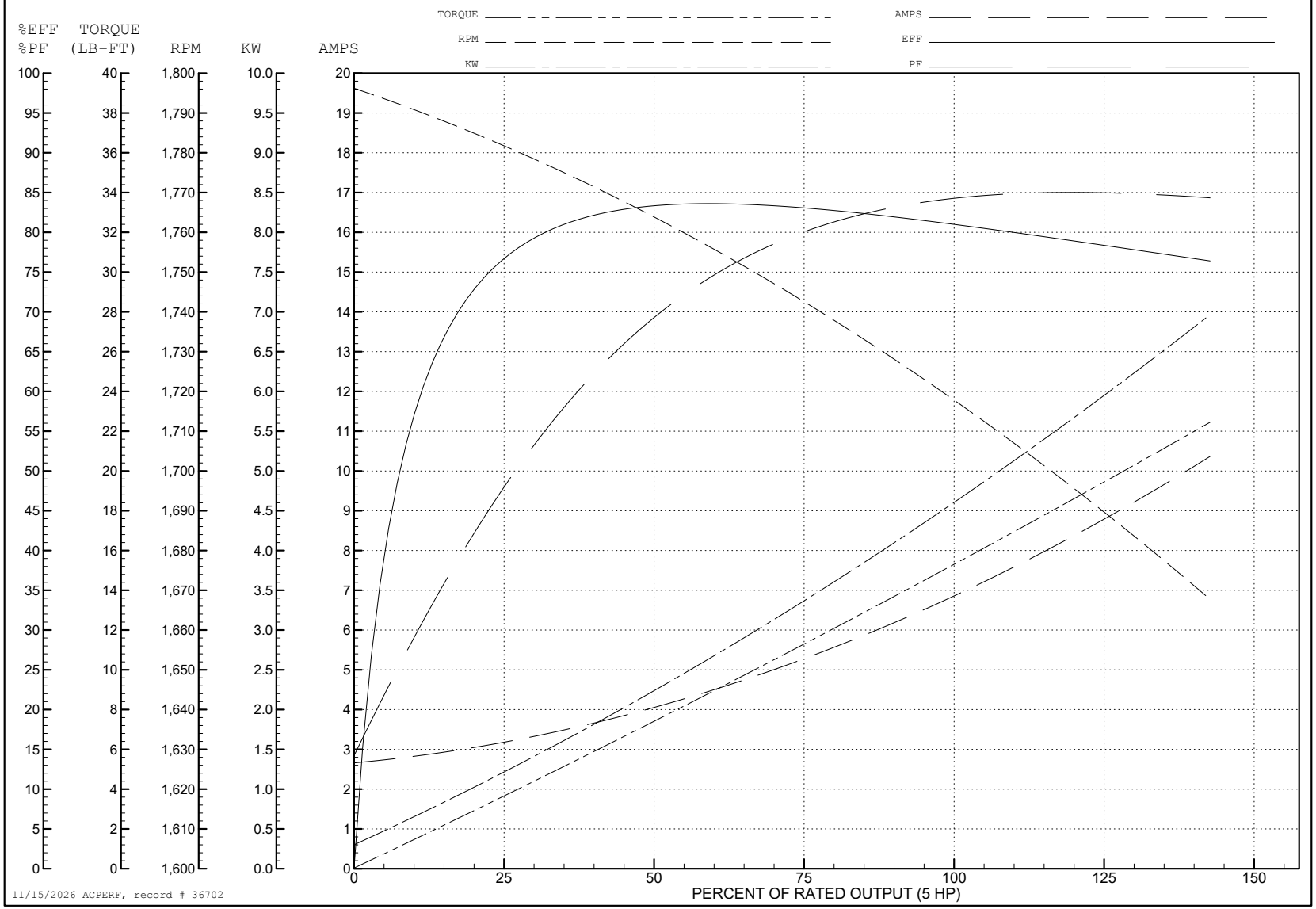
ABB Motors and Mechanical Inc.

WINDING # 37WGY494

5 HP 3 PH 60 HZ 1721 RPM 460 V 3740M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=51 PU=36 LR=51 LRA=58



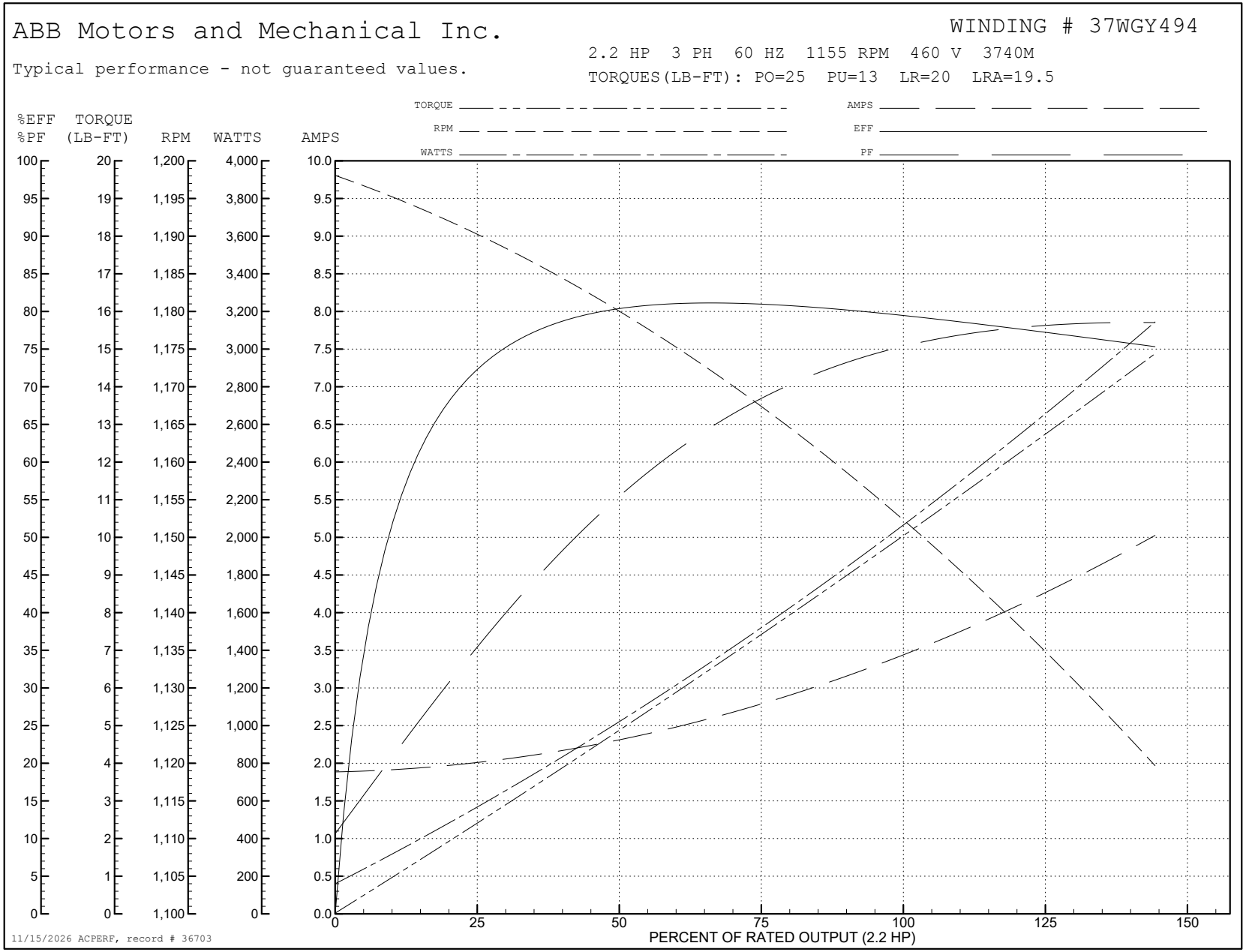
AC Induction Motor Performance Data
Record # 36703
Typical performance - not guaranteed values

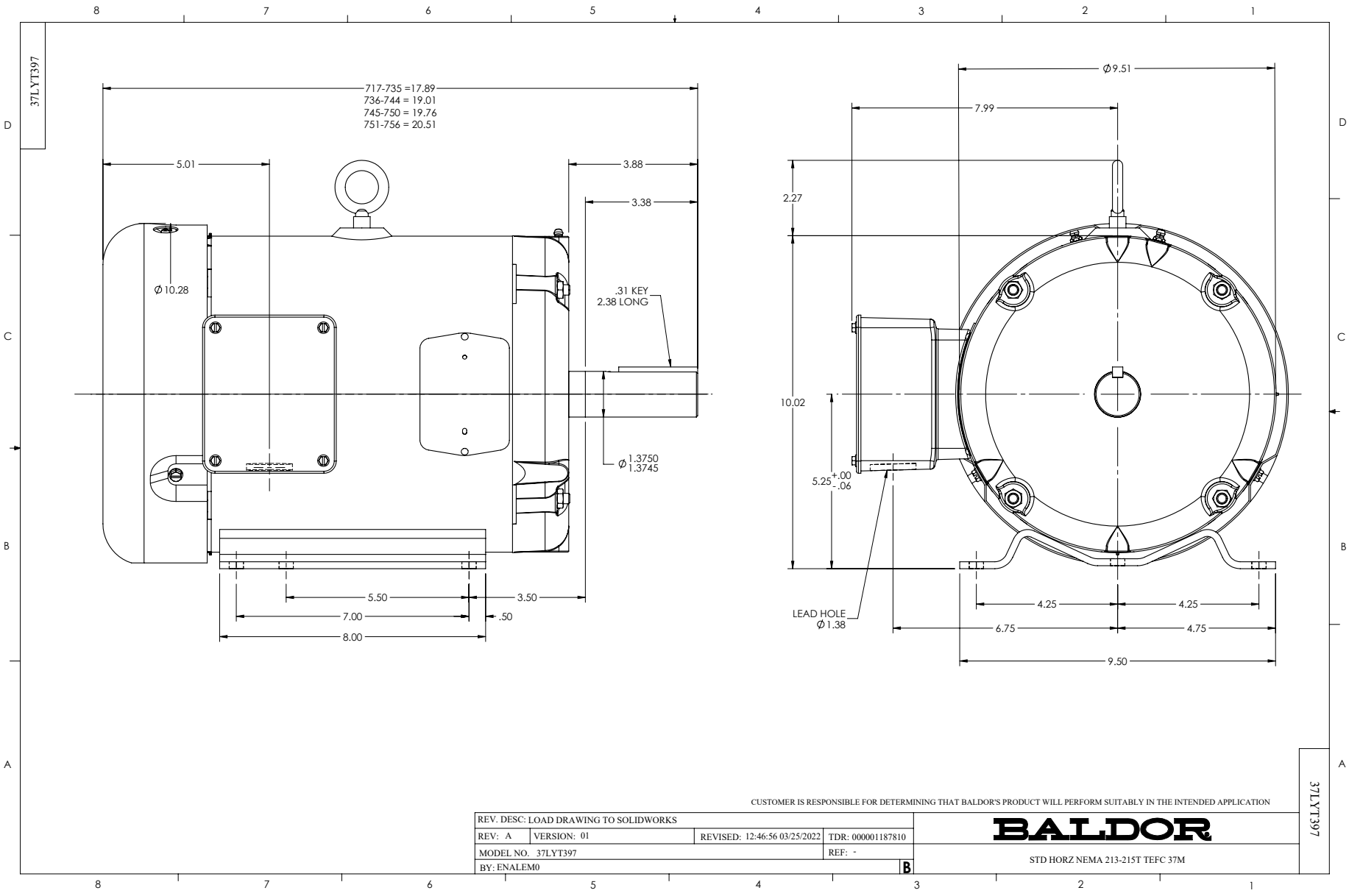
Winding: 37WGY494-R004	**Type:** 3740M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: Low Speed Connection**	
Rated Output (HP)			5/2.2	**Full Load Torque**	9.9 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			6.4/3.5	**Breakdown Torque**	25 LB-FT
R.P.M.			1725/1140	**Pull-up Torque**	13 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	20 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	19.5 A
Service Factor (S.F.)			1.15	**No-load Current**	1.9 A
NEMA Nom. Eff.	0	**Power Factor**	0	**Line-line Res. @ 25ºC**	8.58 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	58°C
S.F. Amps				**Temp. Rise @ S.F. Load**	69°C

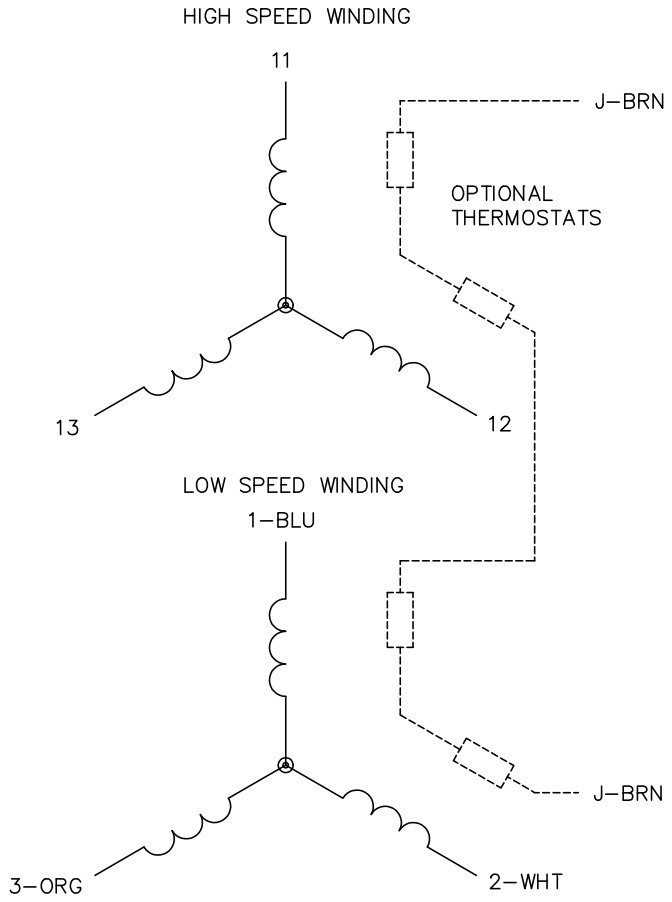
Load Characteristics 460 V, 60 Hz, 2.2 HP

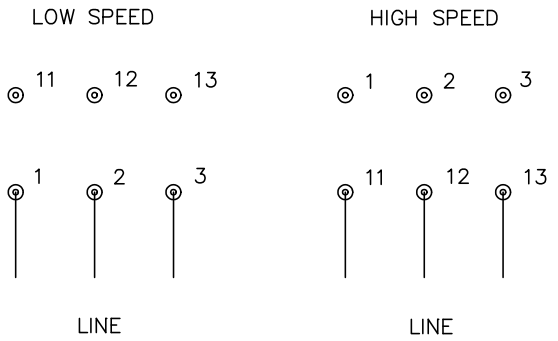
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	37	57	68	75	77	79	76
Efficiency	71.6	79.7	80.9	80	77.9	75.1	78.7
Speed	1189	1179	1167	1155	1137	1119	1144
Line amperes	2	2.3	2.8	3.4	4.2	5	3.88


ABB Motors and Mechanical Inc.
WINDING # 37WGY494
2.2 HP 3 PH 60 HZ 1155 RPM 460 V 3740M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=25 PU=13 LR=20 LRA=19.5
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (2.2 HP)
11/15/2026 ACPERF, record # 36703


37LYT397
717-735 =17.89
736-744 = 19.01
745-750 = 19.76
751-756 = 20.51
5.01
3.88
3.38
Ø 10.28
.31 KEY
2.38 LONG
Ø 1.3750
1.3745
5.50
3.50
7.00
.50
8.00
Ø 9.51
7.99
2.27
10.02
5.25 +.00 -.06
LEAD HOLE
Ø 1.38
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

CD0013





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 VARY.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: D	BY: JLP	REVISED: 01/22/99 8:50	TDR: 0171435
CD0013		FILE: AAA00005143	MDL: –
		MTL: –	3PH, SV, 6 LEADS, 2–SPEED 2–WINDING

CD0013