ABB BALDOR RELIANCE

Customer information packet

VSPM3313T

10HP, 1770RPM, 3PH, 60HZ, 215TC, 3750M, OPSB, F
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPSB
Frame	215TC
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	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	WEEE
	NEMA PREMIUM 4
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	12.100 A @ 460.0 V
	24.200 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	12.1 a
Insulation Class	F

Part Detail

Revision	B
Type	AC
Mech. spec.	37T654
Base	
Status	PRD/A
Elec. spec.	37WGZ671
Layout	37LYT654
Eff. date	11-19-2025
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	11-29-2023

Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3750M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	18.94 IN
Power Factor	82
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1770 rpm
Speed Code	Single Speed
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

NP4423A01A01L												
CAT #	VSPM3313T				**WGT**	158	**LBS**					
SPEC	37T654Z671				**ENCL**	OPSB						
SER #					**CC**	010A	**IP**	23				
HP	10			**MAG CUR**	10.2/5.1							
VOLTS	230/460						**NEMA NOM. EFF**	92.4				
AMPS	24.2/12.1					**PF**	82					
RATING	40C AMB-CONT											
RPM	1770				**MAX RPM**	2700						
FRAME	215TC	**HZ**	60		**CODE**	J	**CLASS**	F				
SER.F.	1.15	**SF AMP**	27.6/13.8			**PH**	3	**DES**	A			
DE	6307		**ODE**	6206								
LUBRICATION	POLYREX EM											
ID LOGO	**INVERTER TYPE**		**VPWM**		**CHP**	60	**TO**	90	1.5:1			
ID LOGO	**WK2**	1.18	**CT**	6	**TO**	60	10:1					
ID LOGO	**SL HZ**	1	**VT**	3	**TO**	60	20:1					
						QR						
YR												

AC Induction Motor Performance Data
Record # 96652
Typical performance - not guaranteed values

Winding: 37WGZ671-R001	**Type:** 3750M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			10	**Full Load Torque**	29.83 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			24.2/12.1	**Breakdown Torque**	105 LB-FT
R.P.M.			1770	**Pull-up Torque**	47.5 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	66.1 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	107 A
Service Factor (S.F.)			1.15	**No-load Current**	6.05 A
NEMA Nom. Eff.	92.4	**Power Factor**	82	**Line-line Res. @ 25ºC**	0.89616 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	36°C
S.F. Amps			27.6/13.8	**Temp. Rise @ S.F. Load**	44°C
				Locked-rotor Power Factor	35.2

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	40	62	74	79	82	84	81
Efficiency	87.9	92.1	92.9	92.7	92	91.2	92.3
Speed	1793.1	1787.3	1781.1	1774.3	1767.2	1759.6	1770
Line amperes	6.71	8.27	10.4	12.8	15.5	18.4	14.4

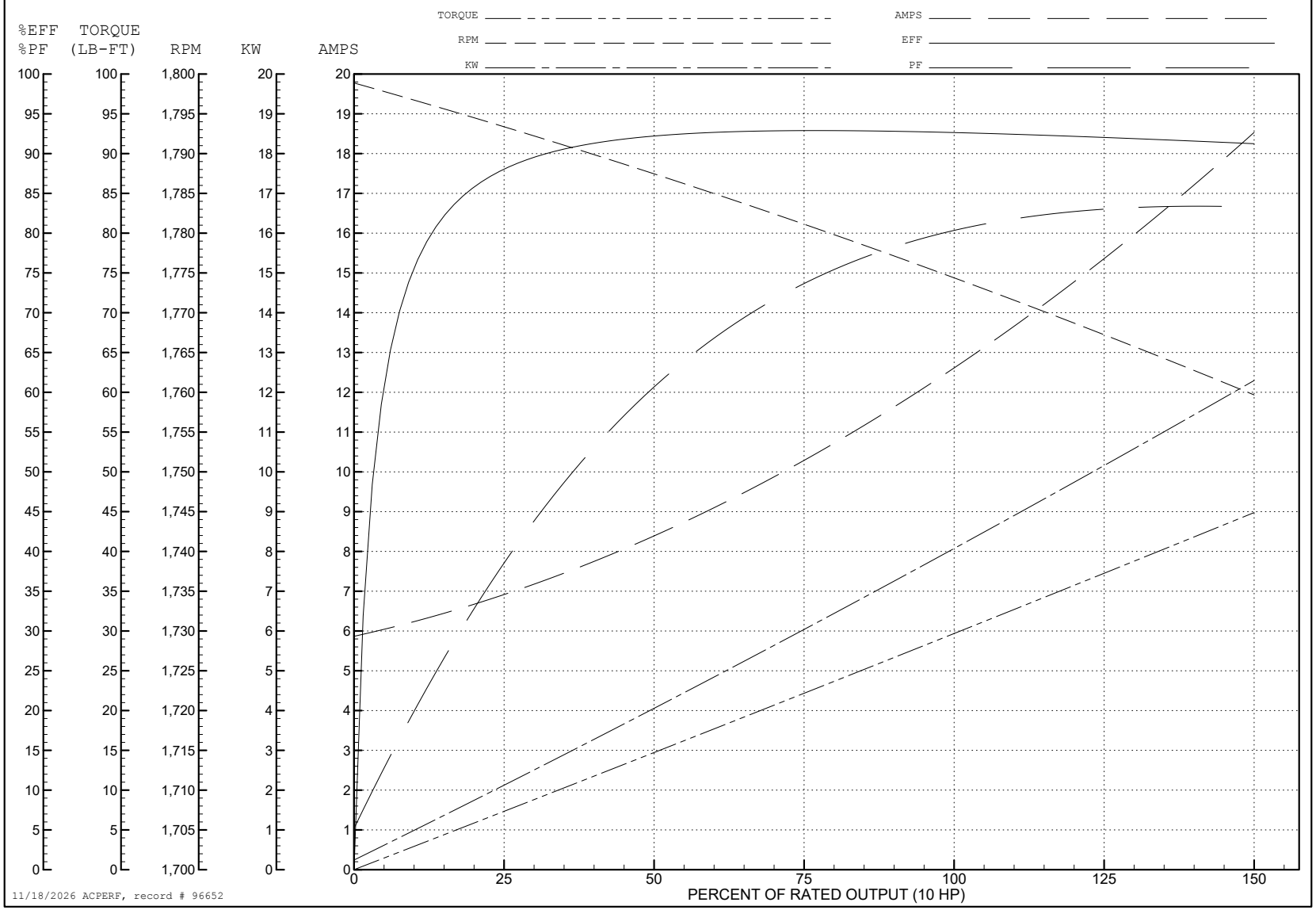
ABB Motors and Mechanical Inc.

WINDING # 37WGZ671

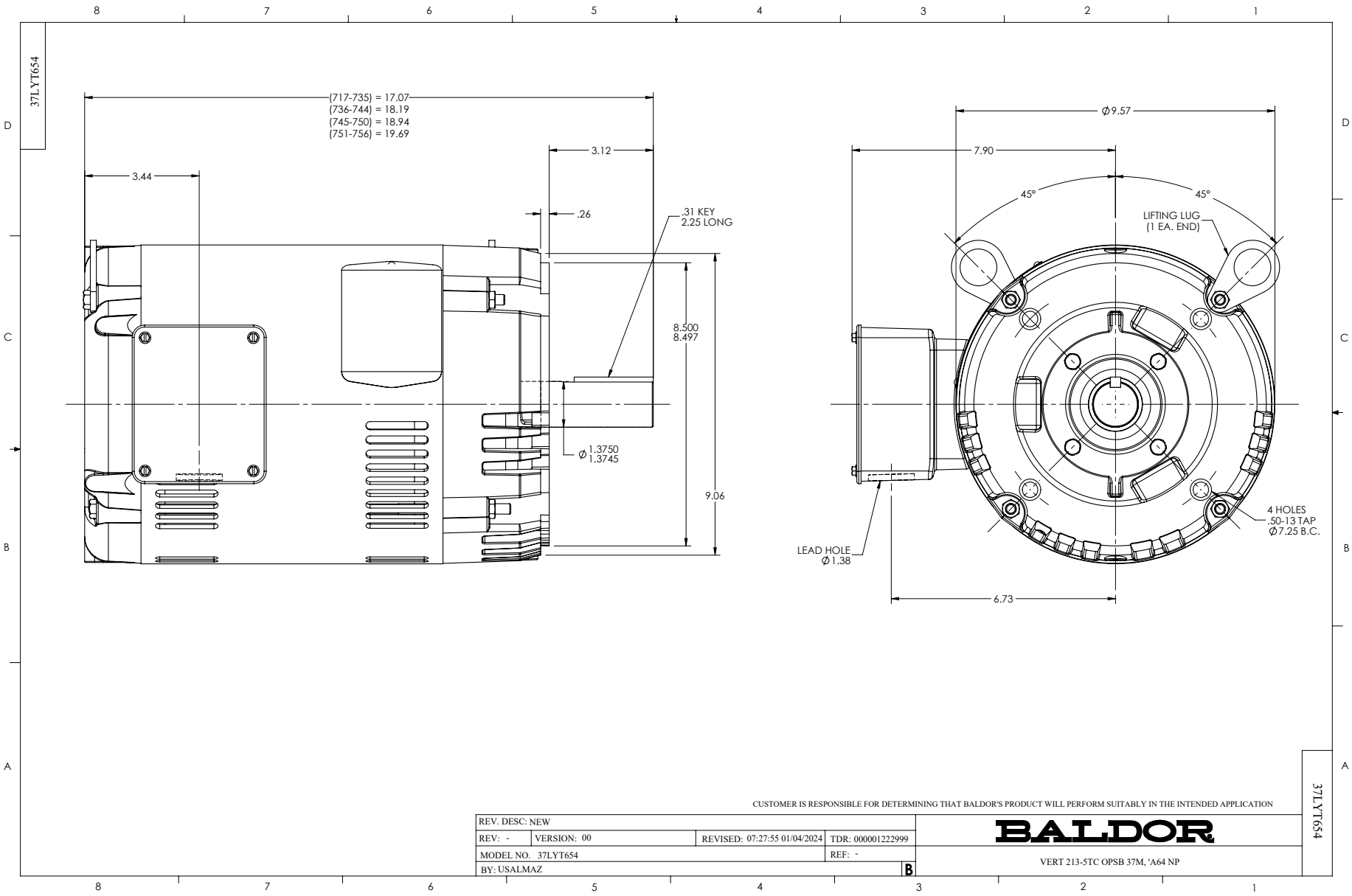
10 HP 3 PH 60 HZ 1770 RPM 460 V 3750M

Typical performance - not guaranteed values.

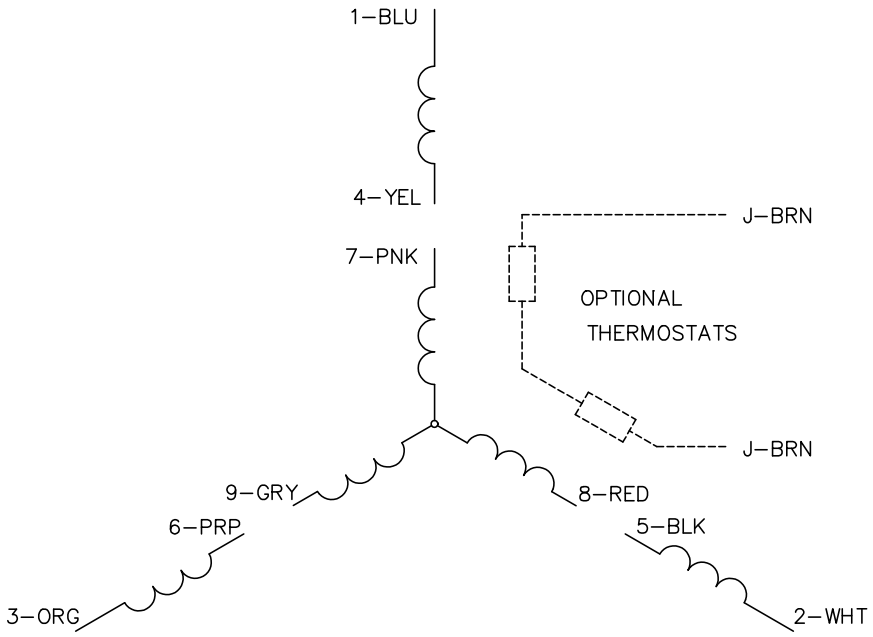
TORQUES(LB-FT): PO=105 PU=47.5 LR=66.1 LRA=107

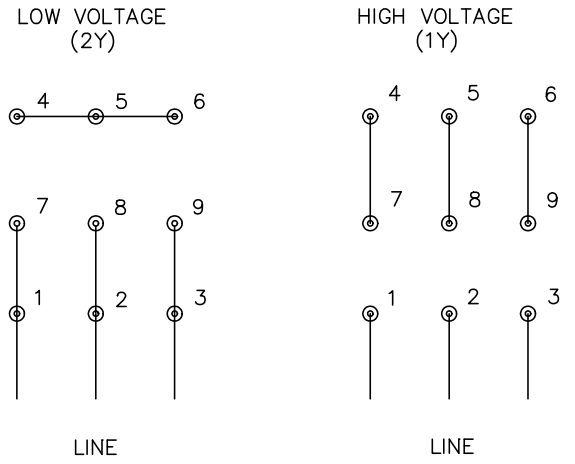


11/18/2026 ACPERF, record # 96652


37LYT654
(717-735) = 17.07
(736-744) = 18.19
(745-750) = 18.94
(751-756) = 19.69
3.44
3.12
.26
.31 KEY
2.25 LONG
8.500
8.497
Ø1.3750
1.3745
9.06
Ø9.57
7.90
45°
45°
LIFTING LUG
(1 EA. END)
4 HOLES
.50-13 TAP
Ø7.25 B.C.
LEAD HOLE
Ø1.38
6.73
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: NEW
REV: - VERSION: 00 REVISED: 07:27:55 01/04/2024 TDR: 000001222999
MODEL NO. 37LYT654 REF: -
BY: USALMAZ B
BALDOR
VERT 213-5TC OPSB 37M, 'A64 NP
37LYT654

CD0005





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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS