ABB BALDOR RELIANCE

Customer information packet

VZDNM3615T

5HP, 1755RPM, 3PH, 60HZ, 184TC, 3648M, TENV, F1
Class - None
Division - Not Applicable

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10/10/2026 12:39:34 AM

Specifications

Enclosure	TENV
Frame	184TC
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
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA EEV
	NEMA PREMIUM
	UR
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	13.200 A @ 230.0 V
	6.600 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	ENCODER
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	6.6 a

Part Detail

Revision	A
Type	AC
Mech. spec.	36T622
Base	
Status	PRD/A
Elec. spec.	36WGZ629
Layout	36LYT622
Eff. date	08-05-2026
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	05-13-2025

Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3648M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.71 IN
Power Factor	79
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.125 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1755 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3943L					
CAT.NO.	VZDNM3615T				
SPEC.	36T622Z629Z1				
FRAME	184TC	**H.P.**	5 TE		
VOLTS	230/460 ENCL TENV				
MAG. CUR.	6.6/3.3	**F.L. AMPS**	13.2/6.6		
R.P.M.	1755	**R.P.M. MAX**	2700		
HZ.	60	**PH.**	3	**CLASS**	H
SER.F.	1.00	**SL HZ**	1.5		
NEMA NOM. EFF.	89.5	**WK2**	0.447		
RATING	40C AMB-CONT				
DE	6206	**ODE**	6205		
CC	010A	**SN**			
	1000:1 CT 1.5:1 CHP				

AC Induction Motor Performance Data
Record # 111582
Typical performance - not guaranteed values

Winding: 36WGZ629-R005	**Type:** 3648M	**Enclosure:** TENV

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			5	**Full Load Torque**	15.16 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			13.2/6.6	**Breakdown Torque**	56.6 LB-FT
R.P.M.			1755	**Pull-up Torque**	31.6 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	35.4 LB-FT
NEMA Design Code	A	**KVA Code**	K	**Starting Current**	53.4 A
Service Factor (S.F.)			1	**No-load Current**	3.29 A
NEMA Nom. Eff.	89.5	**Power Factor**	79	**Line-line Res. @ 25ºC**	2.0924 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	119°C
				Locked-rotor Power Factor	38.4
				Rotor inertia	0.447 lb-ft²

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	39	60	73	79	83	84
Efficiency	86.2	90.2	90.6	89.9	88.6	86.8
Speed	1788.1	1776.4	1763.7	1749.9	1735	1718.1
Line amperes	3.62	4.37	5.41	6.66	8.06	9.63

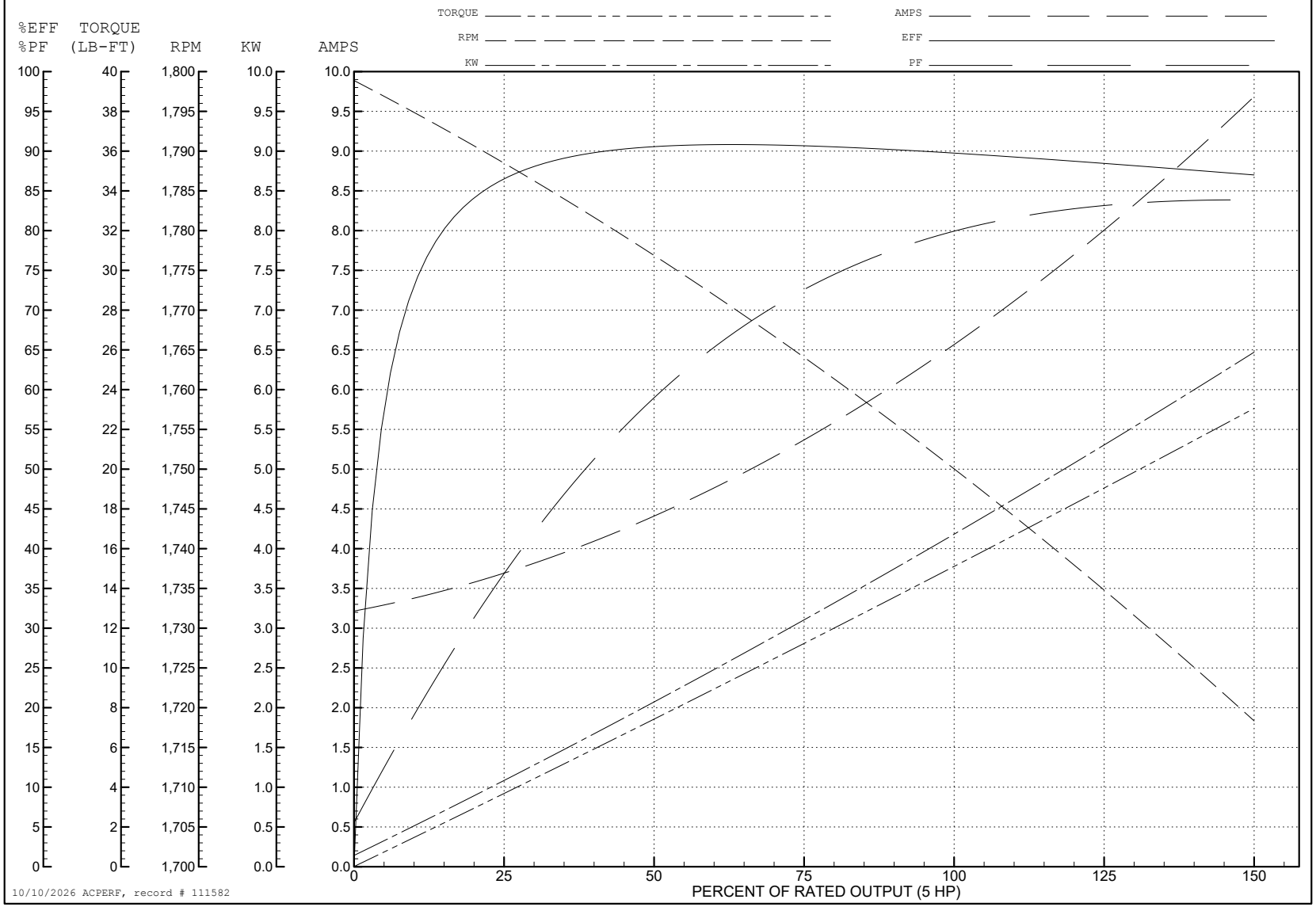
ABB Motors and Mechanical Inc.

WINDING # 36WGZ629

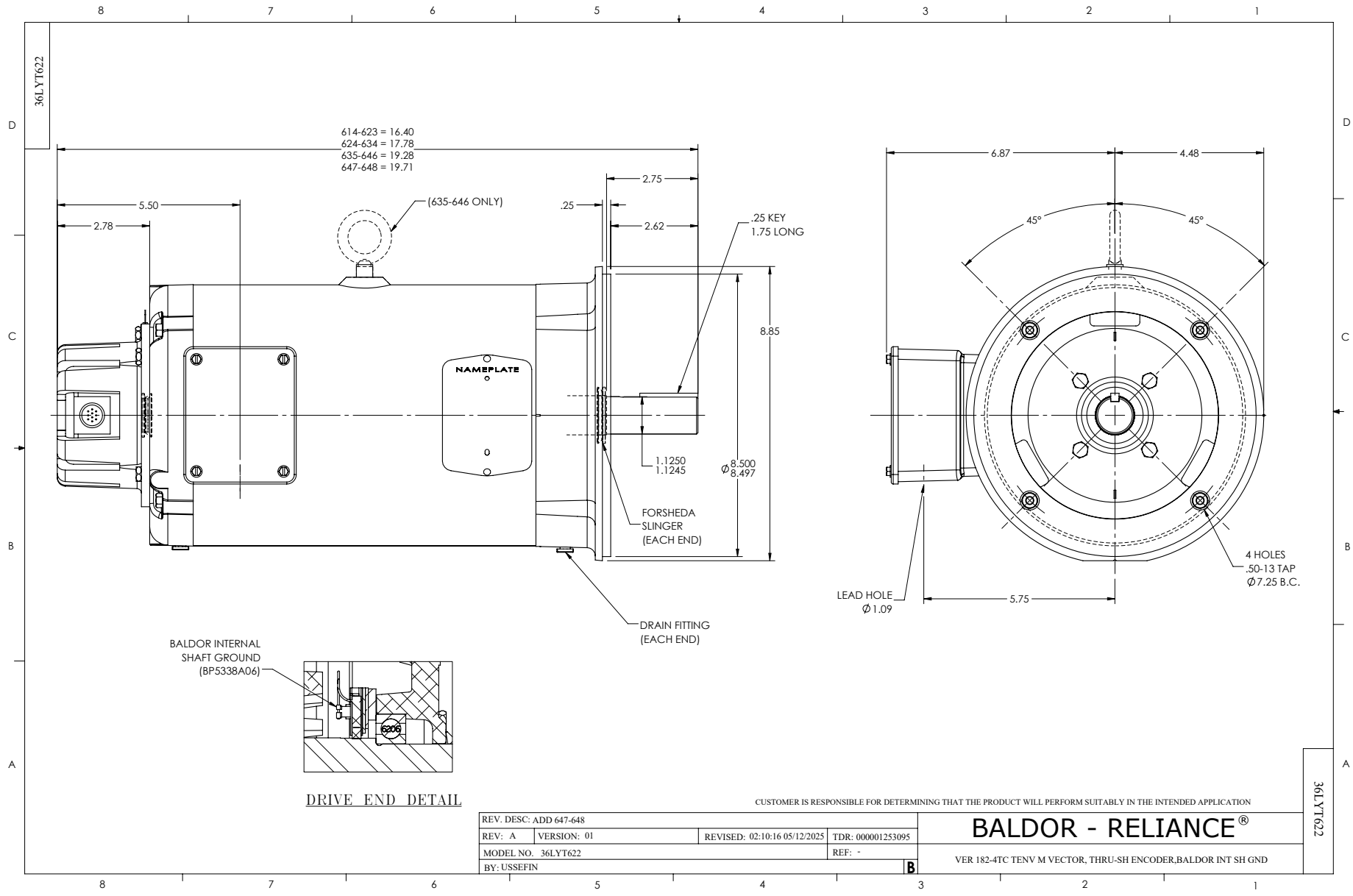
5 HP 3 PH 60 HZ 1755 RPM 460 V 3648M

Typical performance - not guaranteed values.

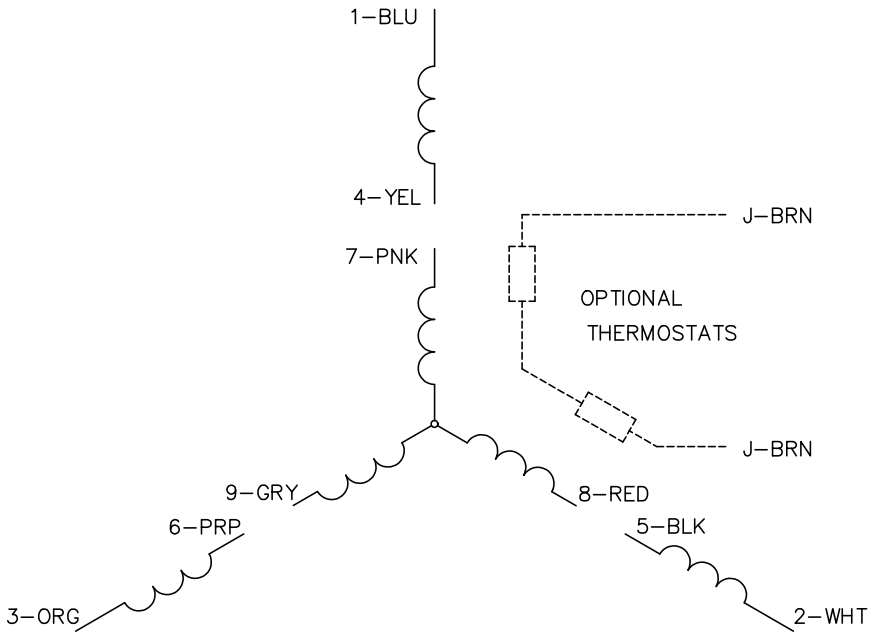
TORQUES(LB-FT): PO=56.6 PU=31.6 LR=35.4 LRA=53.4

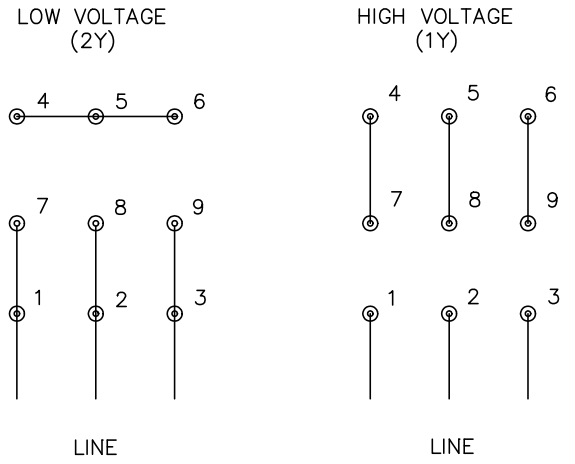


10/10/2026 ACPERF, record # 111582


36LYT622
614-623 = 16.40
624-634 = 17.78
635-646 = 19.28
647-648 = 19.71
5.50
2.78
(635-646 ONLY)
.25
2.75
2.62
.25 KEY
1.75 LONG
8.85
NAMEPLATE
1.1250
1.1245
Ø8.500
8.497
FORSHEDA
SLINGER
(EACH END)
DRAIN FITTING
(EACH END)
6.87
4.48
45°
45°
4 HOLES
.50-13 TAP
Ø7.25 B.C.
LEAD HOLE
Ø1.09
5.75
BALDOR INTERNAL
SHAFT GROUND
(BP5338A06)
6206
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD 647-648
REV: A
VERSION: 01
REVISED: 02:10:16 05/12/2025
TDR: 000001253095
MODEL NO. 36LYT622
REF: -
BY: USSEFIN
B
BALDOR - RELIANCE®
VER 182-4TC TENV M VECTOR, THRU-SH ENCODER,BALDOR INT SH GND
36LYT622

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