ABB BALDOR RELIANCE

Customer information packet

SPM3615T

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

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11/10/2026 6:28:40 AM

Specifications

Enclosure	TEFC
Frame	184T
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	WEEE
	NEMA PREMIUM 4
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	13.200 A @ 230.0 V
	6.600 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	6.6 a
Insulation Class	F

Part Detail

Revision	E
Type	AC
Mech. spec.	36P394
Base	
Status	PRD/A
Elec. spec.	36WGZ629
Layout	36LYP394
Eff. date	09-19-2024
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	09-07-2023

Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No 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	18.48 IN
Power Factor	78
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No 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	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP4423A01A01L												
CAT #	SPM3615T			**WGT**	101	**LBS**						
SPEC	36P394Z629			**ENCL**	TEFC							
SER #				**CC**	010A	**IP**	54					
HP	5		**MAG CUR**	6.4/3.2								
VOLTS	230/460					**NEMA NOM. EFF**	91					
AMPS	13.2/6.6				**PF**	78						
RATING	40C AMB-CONT											
RPM	1755			**MAX RPM**	2700							
FRAME	184T	**HZ**	60	**CODE**	J	**CLASS**	F					
SER.F.	1.15	**SF AMP**	14.8/7.4		**PH**	3	**DES**	B				
DE	6206		**ODE**	6205								
LUBRICATION	POLYREX EM											
ID LOGO	**INVERTER TYPE**		**VPWM**		**CHP**	60	**TO**	90	1.5:1			
ID LOGO	**WK2**	0.447	**CT**	6	**TO**	60		10:1				
ID LOGO	**SL HZ**	1.5	**VT**	3	**TO**	60		20:1				
						QR						
YR												

AC Induction Motor Performance Data
Record # 99131
Typical performance - not guaranteed values

Winding: 36WGZ629-R001	**Type:** 3648M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			5
Volts			230/460
Full Load Amps			13.2/6.6
R.P.M.			1755
Hz	60	**Phase**	3
NEMA Design Code	A	**KVA Code**	J
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	91	**Power Factor**	78
Rating - Duty			40C AMB-CONT
S.F. Amps			14.8/7.4

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	14.97 LB-FT
Start Configuration	direct on line
Breakdown Torque	56.6 LB-FT
Pull-up Torque	31.6 LB-FT
Locked-rotor Torque	35.4 LB-FT
Starting Current	53.4 A
No-load Current	3.26 A
Line-line Res. @ 25ºC	2.0924 Ω
Temp. Rise @ Rated Load	57°C
Temp. Rise @ S.F. Load	70°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**	**S.F.**
Power Factor	39	60	72	79	82	84	81
Efficiency	85.9	90.6	91.4	91.1	90.3	89.1	90.6
Speed	1789.8	1780.2	1770.2	1758.9	1746.9	1733.6	1752
Line amperes	3.59	4.33	5.33	6.55	7.91	9.4	7.37

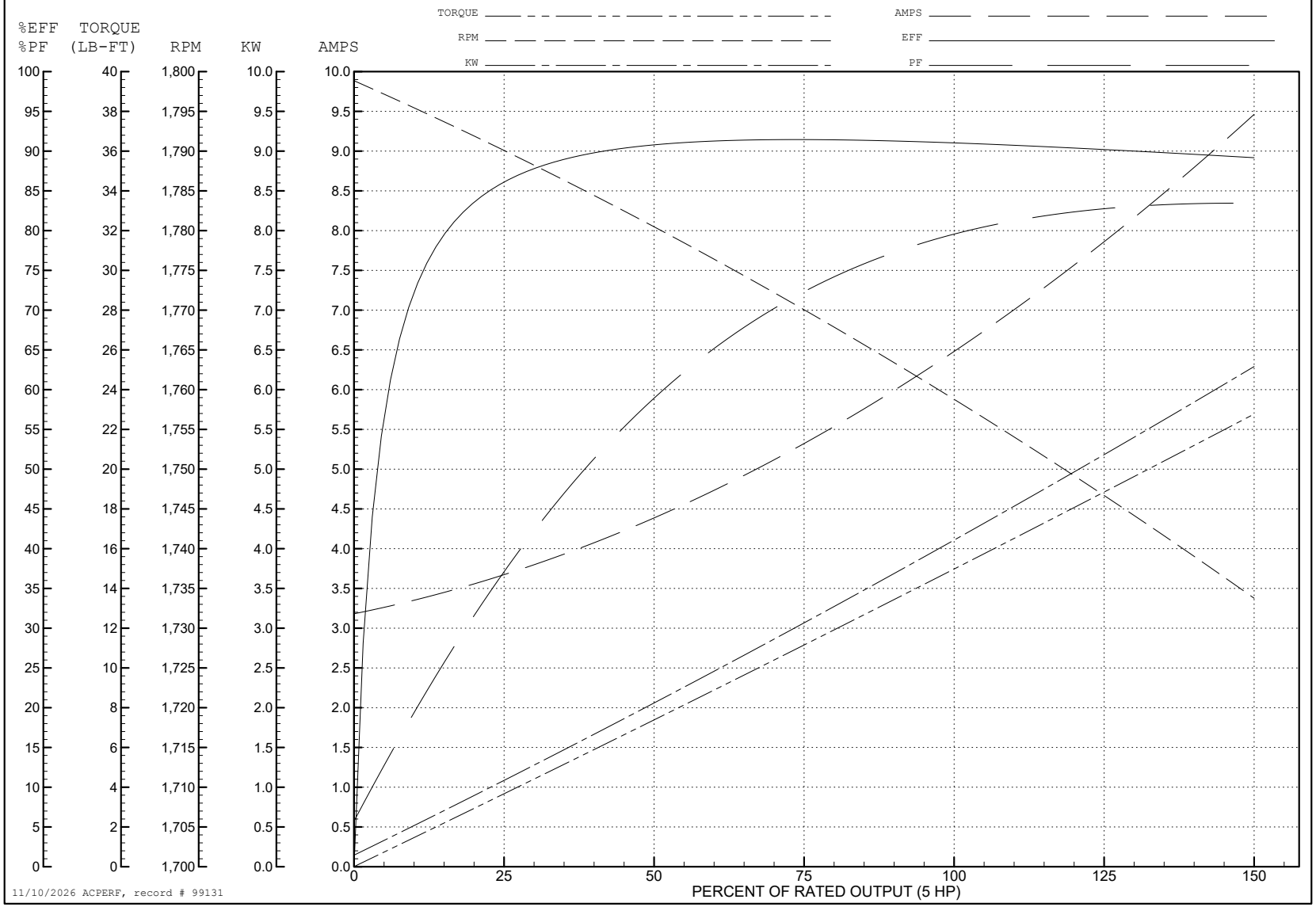
ABB Motors and Mechanical Inc.

WINDING # 36WGZ629

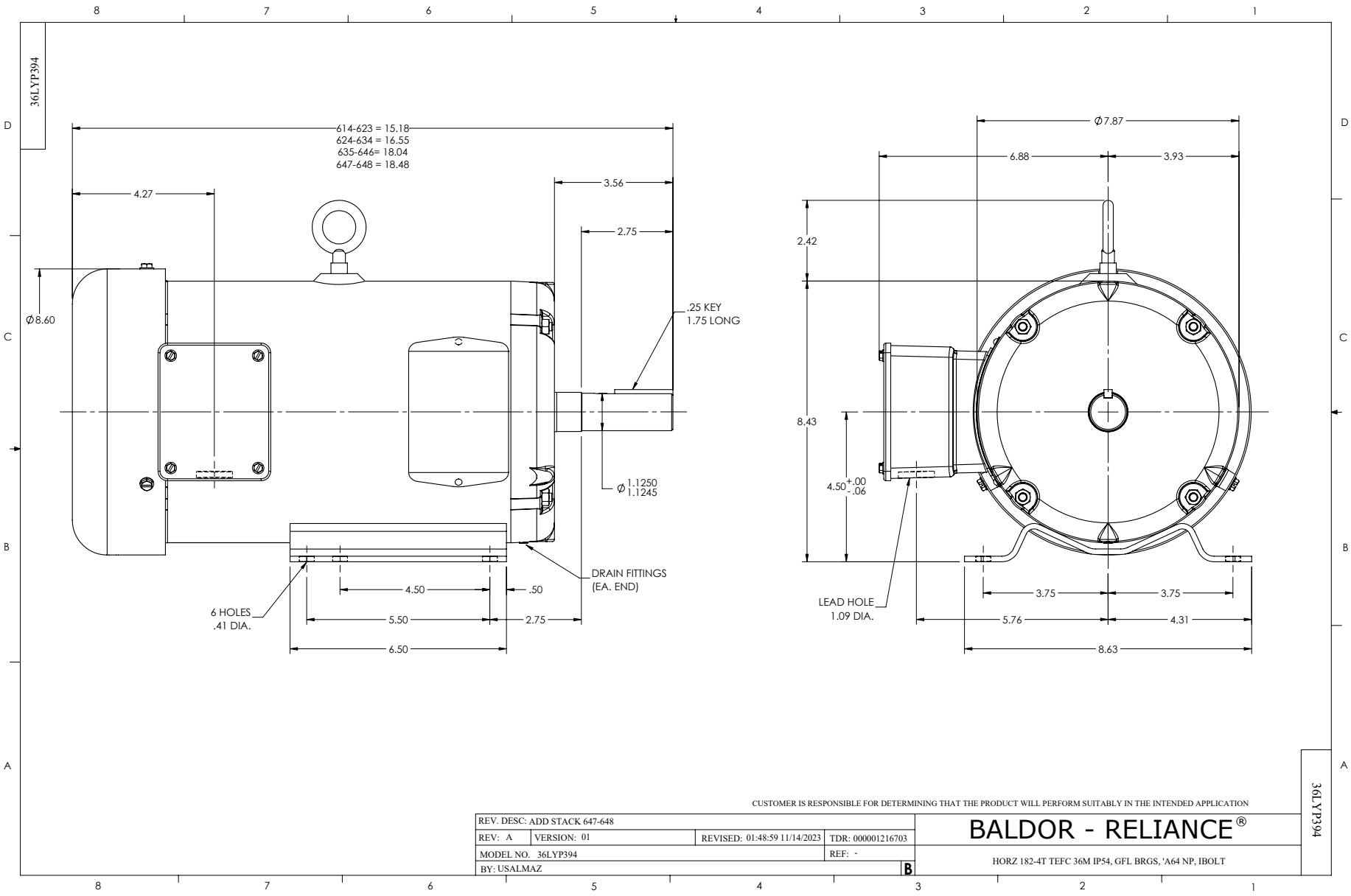
5 HP 3 PH 60 HZ 1755 RPM 460 V 3648M

Typical performance - not guaranteed values.

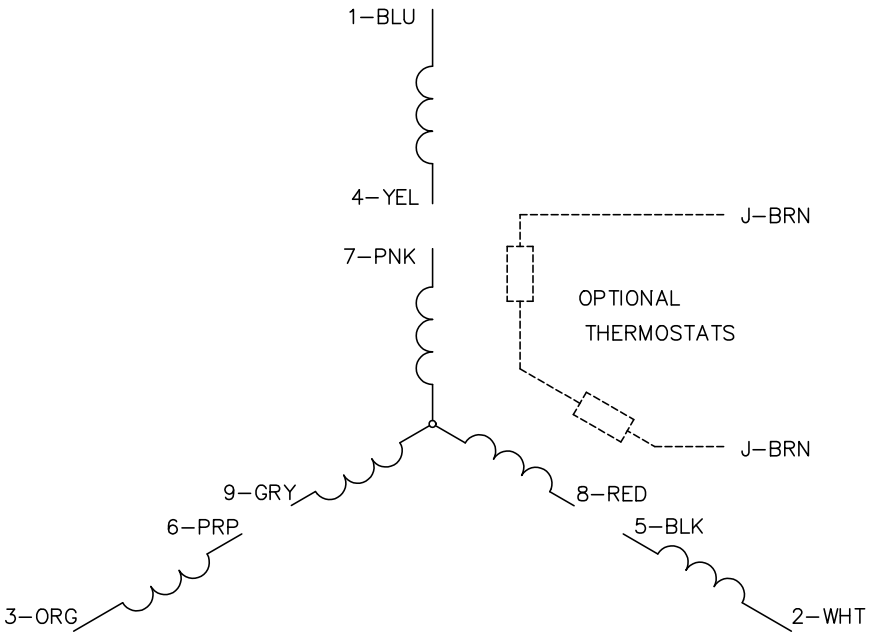
TORQUES(LB-FT): PO=56.6 PU=31.6 LR=35.4 LRA=53.4

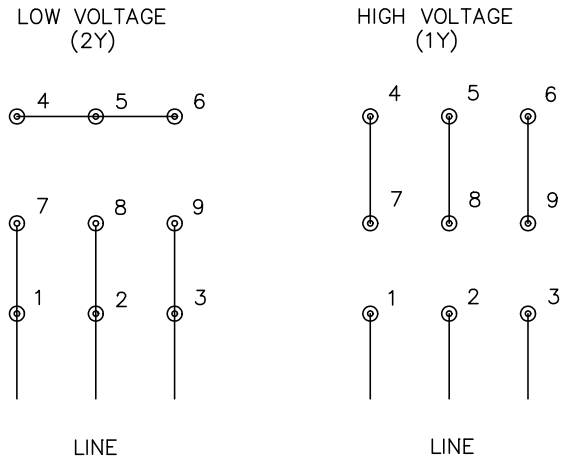


11/10/2026 ACPERF, record # 99131


36LYP394
614-623 = 15.18
624-634 = 16.55
635-646= 18.04
647-648 = 18.48
4.27
3.56
2.75
Ø8.60
.25 KEY
1.75 LONG
Ø 1.1250
1.1245
DRAIN FITTINGS
(EA. END)
6 HOLES
.41 DIA.
4.50
.50
5.50
2.75
6.50
Ø7.87
6.88
3.93
2.42
8.43
4.50 +.00 -.06
LEAD HOLE
1.09 DIA.
3.75
3.75
5.76
4.31
8.63
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD STACK 647-648
REV: A
VERSION: 01
REVISED: 01:48:59 11/14/2023
TDR: 000001216703
MODEL NO. 36LYP394
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
HORZ 182-4T TEFC 36M IP54, GFL BRGS, 'A64 NP, IBOLT
36LYP394

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