ABB BALDOR RELIANCE

Customer information packet

VSPJMM3615T

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

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Specifications

Enclosure	TEFC
Frame	184JM
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
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	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
Inverter Code	Inverter Duty

Part Detail

Revision	B
Type	AC
Mech. spec.	36EE005
Base	
Status	PRD/A
Elec. spec.	36WGZ629
Layout	36LYEE005
Eff. date	12-29-2025
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	08-11-2025

KVA Code	J
Lifting Lugs	Standard 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	19.99 IN
Power Factor	78
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft 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 #	VSPJMM3615T			**WGT**	101	**LBS**						
SPEC	36EE005Z629			**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	184JM	**HZ**	60	**CODE**	J	**CLASS**	F					
SER.F.	1.25	**SF AMP**	16.5/8.25			**PH**	3	**DES**	B			
DE	6207			**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				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			5	**Full Load Torque**	14.97 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	B	**KVA Code**	J	**Starting Current**	53.4 A
Service Factor (S.F.)			1.15	**No-load Current**	3.26 A
NEMA Nom. Eff.	91	**Power Factor**	78	**Line-line Res. @ 25ºC**	2.0924 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	57°C
S.F. Amps			14.8/7.4	**Temp. Rise @ S.F. Load**	70°C
				Locked-rotor Power Factor	38.4

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

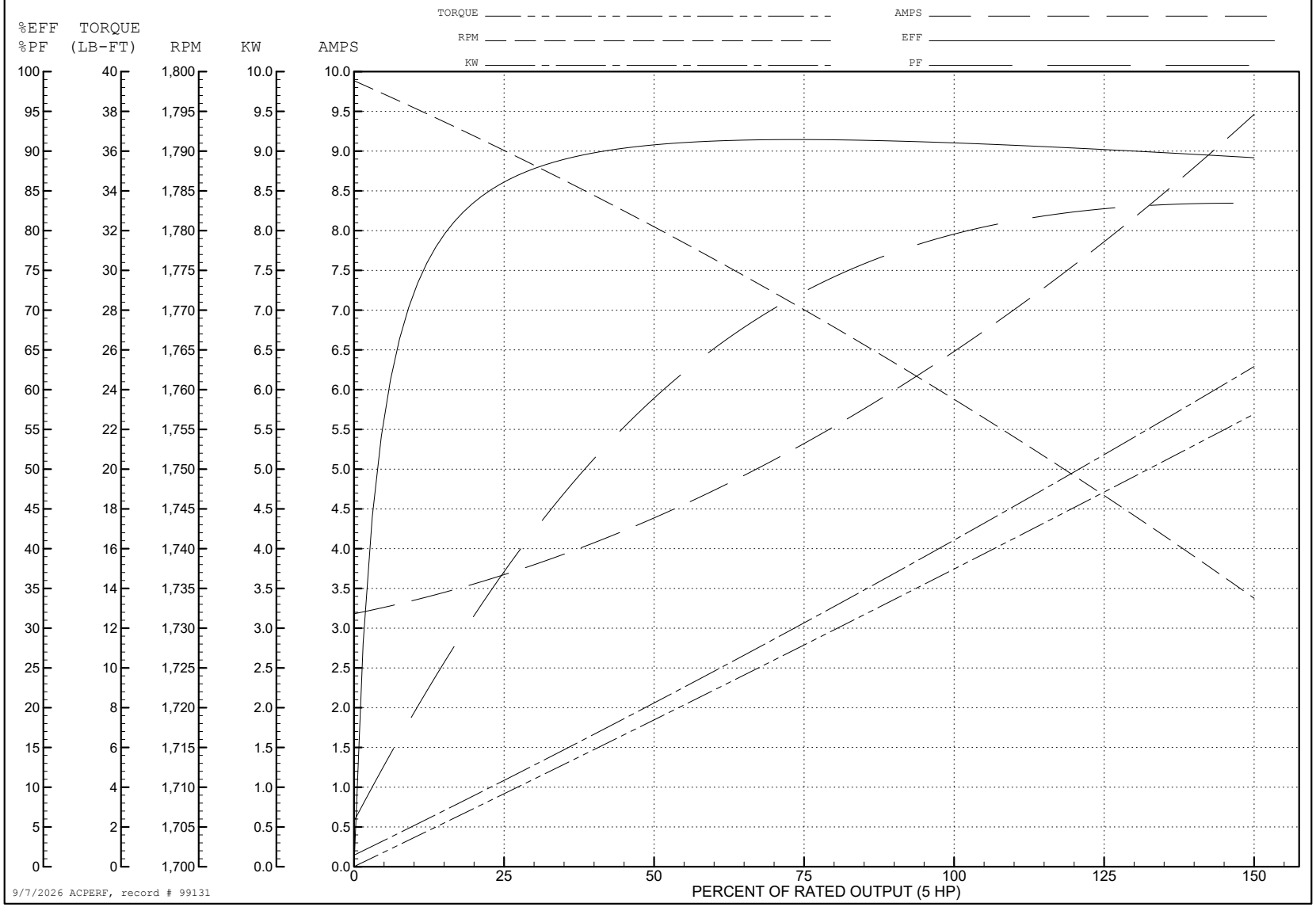
ABB Motors and Mechanical Inc.

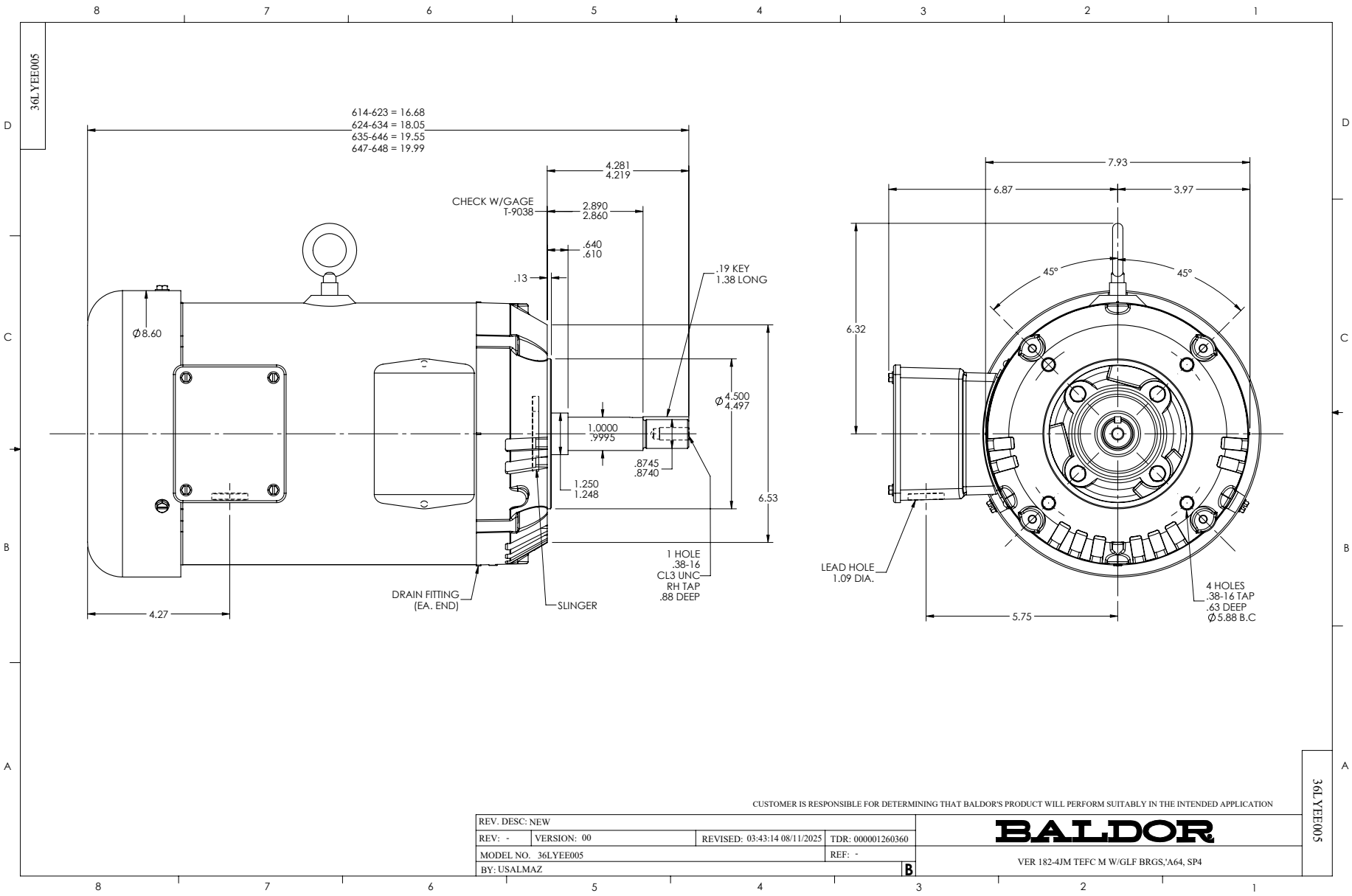
WINDING # 36WGZ629

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

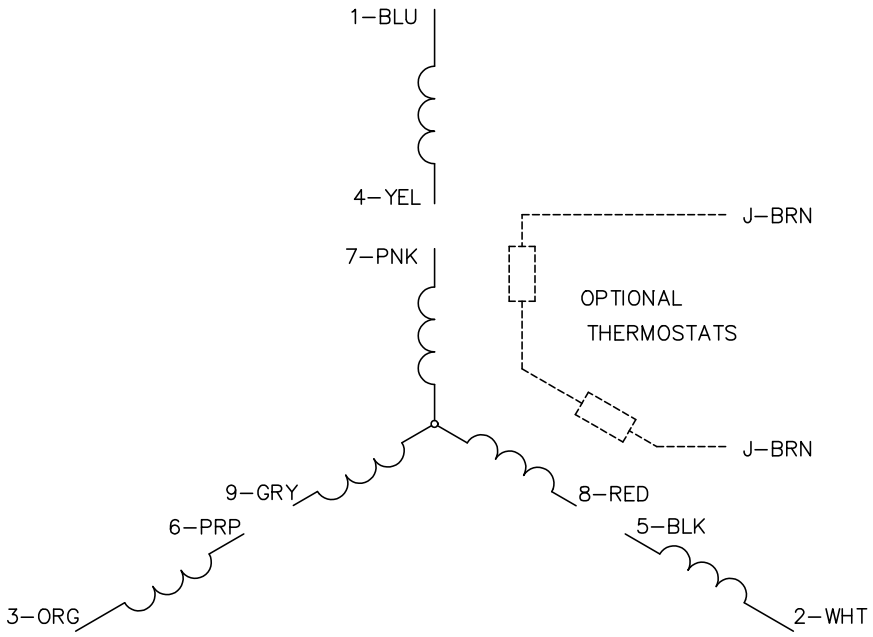
Typical performance - not guaranteed values.

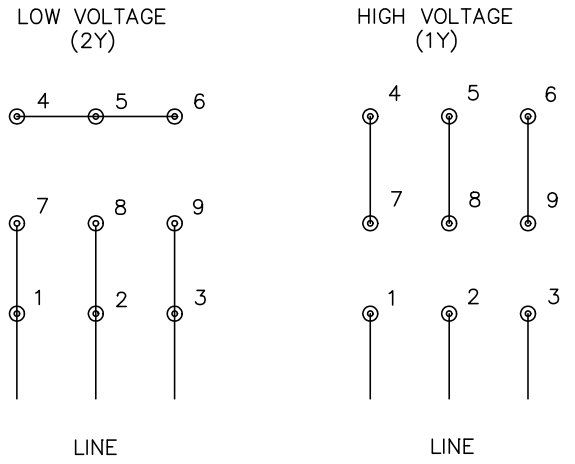
TORQUES(LB-FT): PO=56.6 PU=31.6 LR=35.4 LRA=53.4




36LYEE005
614-623 = 16.68
624-634 = 18.05
635-646 = 19.55
647-648 = 19.99
4.281
4.219
CHECK W/GAGE
T-9038
2.890
2.860
.640
.610
.13
.19 KEY
1.38 LONG
Ø8.60
Ø4.500
4.497
1.0000
.9995
.8745
.8740
1.250
1.248
6.53
1 HOLE
.38-16
CL3 UNC
RH TAP
.88 DEEP
DRAIN FITTING
(EA. END)
SLINGER
4.27
7.93
6.87
3.97
45°
45°
6.32
LEAD HOLE
1.09 DIA.
4 HOLES
.38-16 TAP
.63 DEEP
Ø5.88 B.C
5.75
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: NEW
REV: - VERSION: 00 REVISED: 03:43:14 08/11/2025 TDR: 000001260360
MODEL NO. 36LYEE005 REF: -
BY: USALMAZ B
BALDOR
VER 182-4JM TEFC M W/GLF BRGS,'A64, SP4
36LYEE005

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