ABB BALDOR RELIANCE

Customer information packet

VEBM3611T-D

3 3/2.2KW 46KGHP, 1764RPM, 3PH, 60HZ, 1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	182TC
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	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CE
	CURUSEEV
	NEMA PREMIUM
	UKCA
	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	8.800 A @ 208.0 V
	8.320 A @ 230.0 V
	4.160 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

Part Detail

Revision	E
Type	AC
Mech. spec.	36N149
Base	
Status	PRD/A
Elec. spec.	36WGZ650
Layout	36LYN149
Eff. date	09-15-2026
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	01-12-2026

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	4.2 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3630M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	21.63 IN
Power Factor	74
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	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1764 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

NP2934L									
CAT.NO.	VEBM3611T-D								
SPEC.	36N149Z650G1								
HP	3/2.2KW 39KG								
VOLTS	230/460 IC411								
AMP	8.4/4.2 IP54								
R.P.M. (1/MIN)	1765								
FRAME	182TC	**HZ**	60	**PH**	3				
SER.F.	1.15	**CODE**	K	**DES**	B	**CL**	F		
NEMA-NOM-EFF	89.5	**PF**	74						
RATING	40C AMB-S1 CONT								
CC	010A	BRAKE 15 LB-FT							
DE	6206	**ODE**	6205						
ENCL	TEFC	**SN**							
	IE3-89.5(75%)87.8(50%)								

AC Induction Motor Performance Data
Record # 115759
Typical performance - not guaranteed values

Winding: 36WGZ650-R001	**Type:** 3630M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			3	**Full Load Torque**	8.942 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			8.4/4.2	**Breakdown Torque**	38.2 LB-FT
R.P.M.			1765	**Pull-up Torque**	19.1 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	22.4 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	32.2 A
Service Factor (S.F.)			1.15	**No-load Current**	2.38 A
NEMA Nom. Eff.	89.5	**Power Factor**	74	**Line-line Res. @ 25ºC**	3.8717 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	46°C
S.F. Amps			9.4/4.7	**Temp. Rise @ S.F. Load**	56°C
				Locked-rotor Power Factor	42.6
				Rotor inertia	0.279 lb-ft²

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	33	54	67	74	79	81	77
Efficiency	82.2	88.4	89.8	89.8	89	87.9	89.3
Speed	1790.7	1781.4	1771.4	1761.2	1749.9	1738.7	1754
Line amperes	2.54	2.94	3.51	4.2	4.99	5.87	4.67

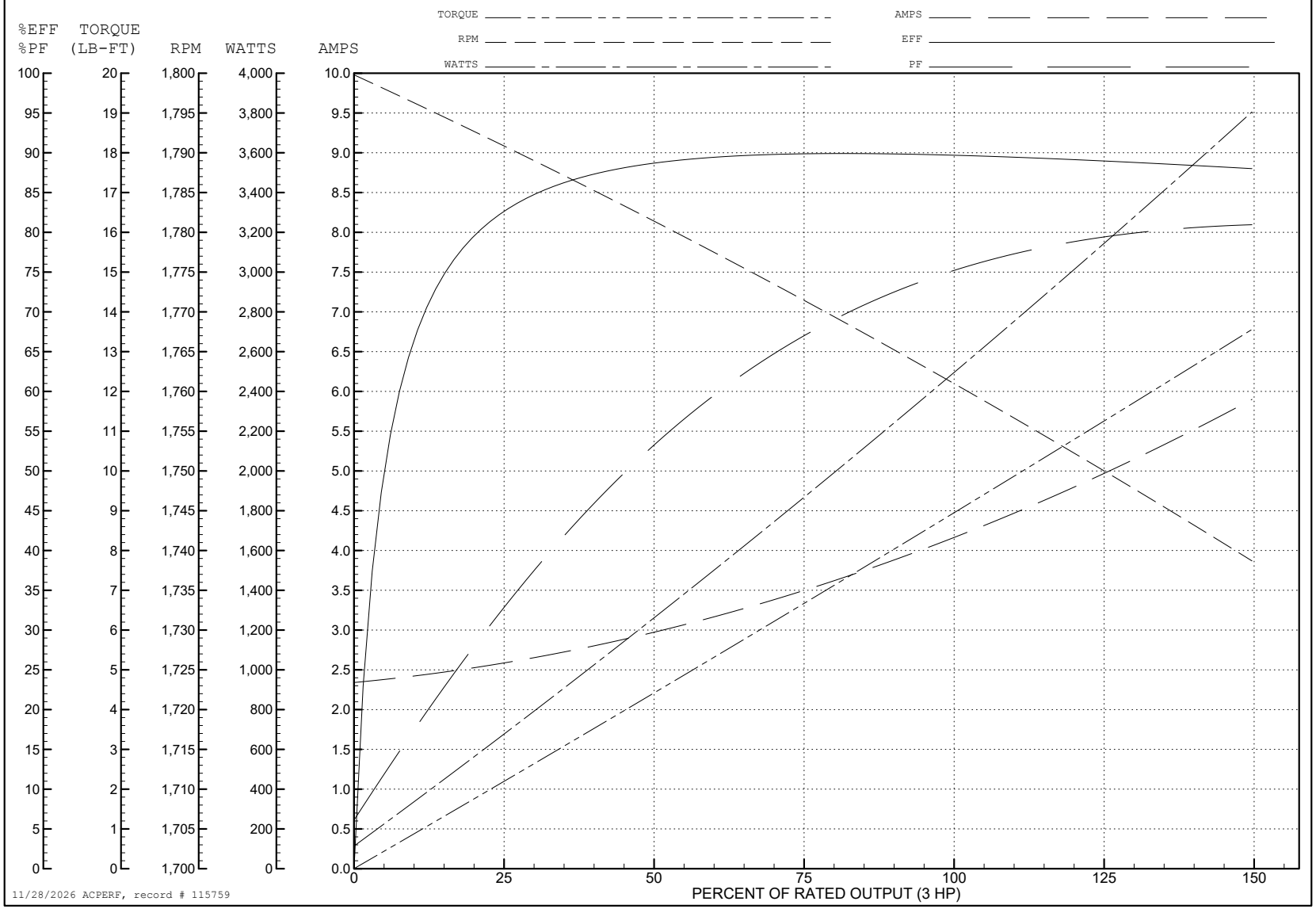
ABB Motors and Mechanical Inc.

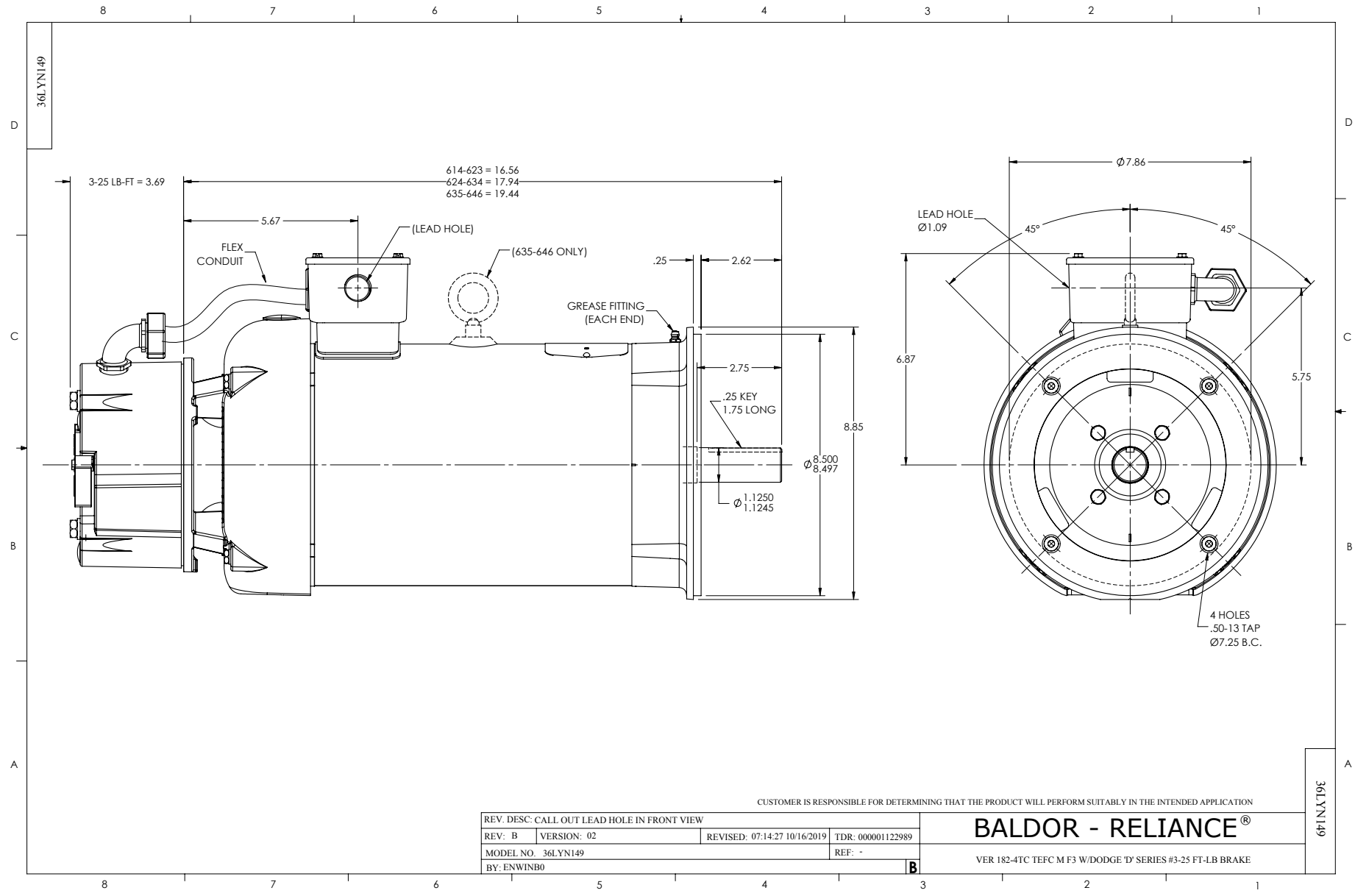
WINDING # 36WGZ650

3 HP 3 PH 60 HZ 1765 RPM 460 V 3630M

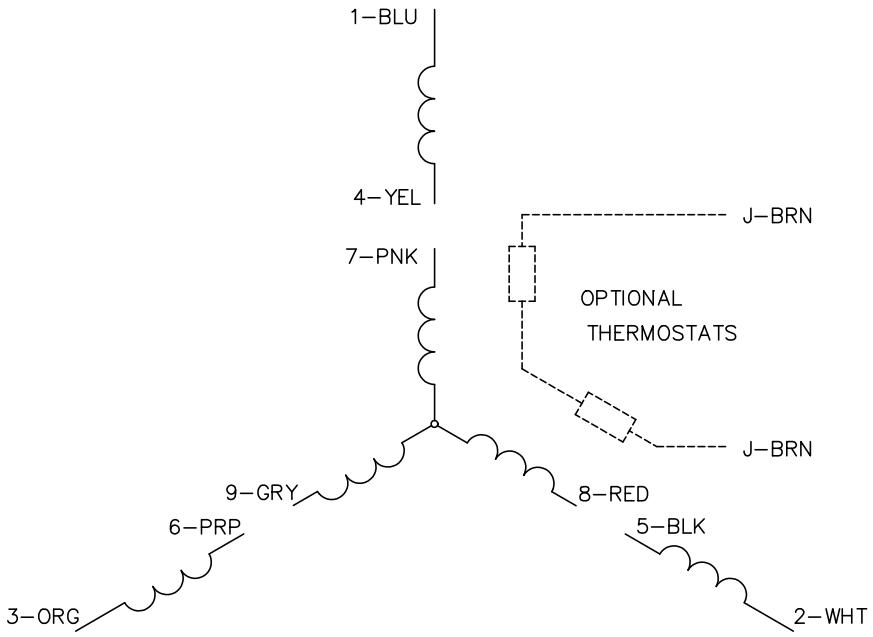
Typical performance - not guaranteed values.

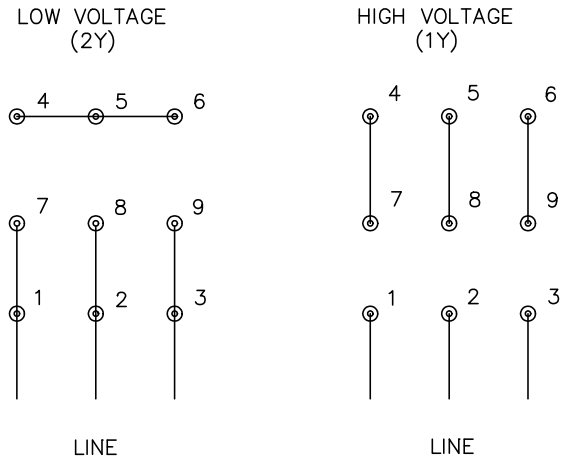
TORQUES(LB-FT): PO=38.2 PU=19.1 LR=22.4 LRA=32.2




36LYN149
3-25 LB-FT = 3.69
614-623 = 16.56
624-634 = 17.94
635-646 = 19.44
5.67
(LEAD HOLE)
FLEX CONDUIT
(635-646 ONLY)
.25
2.62
GREASE FITTING (EACH END)
2.75
.25 KEY 1.75 LONG
8.85
Ø8.500 8.497
Ø1.1250 1.1245
Ø7.86
LEAD HOLE Ø1.09
45°
45°
6.87
5.75
4 HOLES .50-13 TAP Ø7.25 B.C.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CALL OUT LEAD HOLE IN FRONT VIEW
REV: B
VERSION: 02
REVISED: 07:14:27 10/16/2019
TDR: 000001122989
MODEL NO. 36LYN149
REF: -
BY: ENWINB0
B
BALDOR - RELIANCE®
VER 182-4TC TEFC M F3 W/DODGE 'D' SERIES #3-25 FT-LB BRAKE
36LYN149

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

CD2120

WIRING CONNECTIONS (1 PHASE VAC)

	POWER LINE A	POWER LINE B	CAP TOGETHER	CAP ALONE
AC LOW VOLT.	B1	B2	B3 & B5	B4
AC HIGH VOLT.	B1 & B5	B2	---	B3 CAP ALONE B4 CAP ALONE
DC VOLT.	B1	B2	B3 & B5	B4

B1 WHITE
B2 BLACK
B3 GRAY
B4 BLUE
B5 RED

CD2120

REV. DESC: NEW			BALDOR • DODGE • RELIANCE
REV. LTR: –	VERSION: 00	TDR: 000000741785	
FILE: \CKA\00037\282		REVISED: 12:28:11 04/12/2012	D–SERIES MOTOR BRAKE 5LD AC\DC
MTL: –		BY: CKRONS0	SH 1 of 1