ABB BALDOR RELIANCE

Customer information packet

EM3617T

1HP, 850RPM, 3PH, 60HZ, 182T, 3628M, TEFC, F1, N
Class - None
Division - Not Applicable

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/5/2026 6:07:51 PM

Specifications

Enclosure	TEFC
Frame	182T
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	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	900 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	C UR US
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	2.300 A @ 460.0 V
	4.600 A @ 208.0 V
	4.600 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	75.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.3 a

Part Detail

Revision	H
Type	AC
Mech. spec.	36A001
Base	
Status	PRD/A
Elec. spec.	36WGR622
Layout	36LYA001
Eff. date	01-05-2026
CD Diagram	CD0005
Poles	08
Leads	9#16
Proprietary	False
Created date	04-07-2015

Insulation Class	F
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3628M
Mounting Arrangement	F1
Number of Poles	8
Overall Length	16.54 IN
Power Factor	52
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	850 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

NP2116L									
CAT.NO.	EM3617T								
SPEC.	36A001R622G1								
HP	1								
VOLTS	230/460								
AMP	4.6/2.3								
RPM	850								
FRAME	182T		**HZ**	60		**PH**	3		
SER.F.	1.15	**CODE**	L	**DES**	B	**CL**	F		
NEMA-NOM-EFF	75.5	**PF**	52						
RATING	40C AMB-CONT								
CC	010A								
DE	6206	**ODE**	6205						
ENCL	TEFC	**SN**							

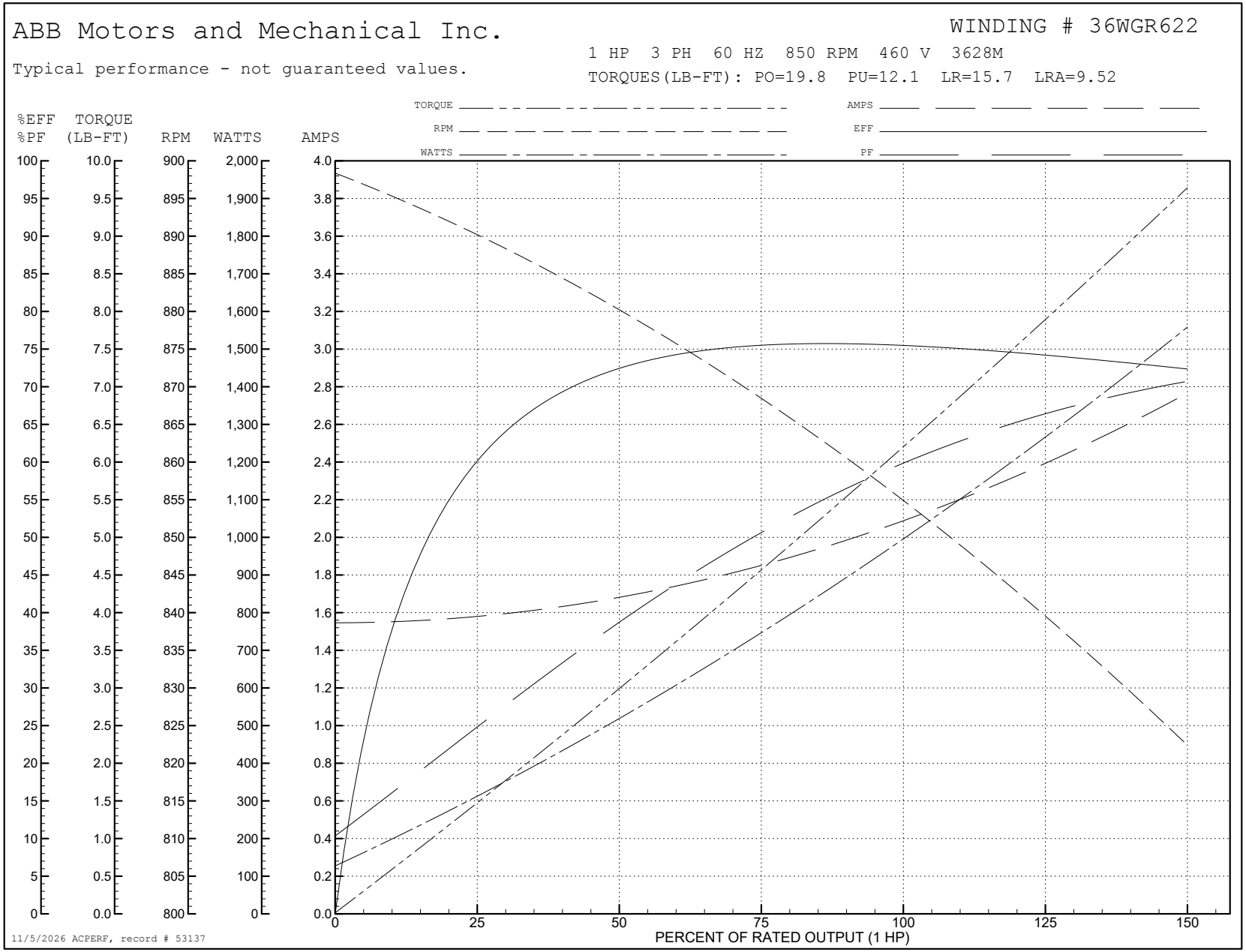
AC Induction Motor Performance Data
Record # 53137
Typical performance - not guaranteed values

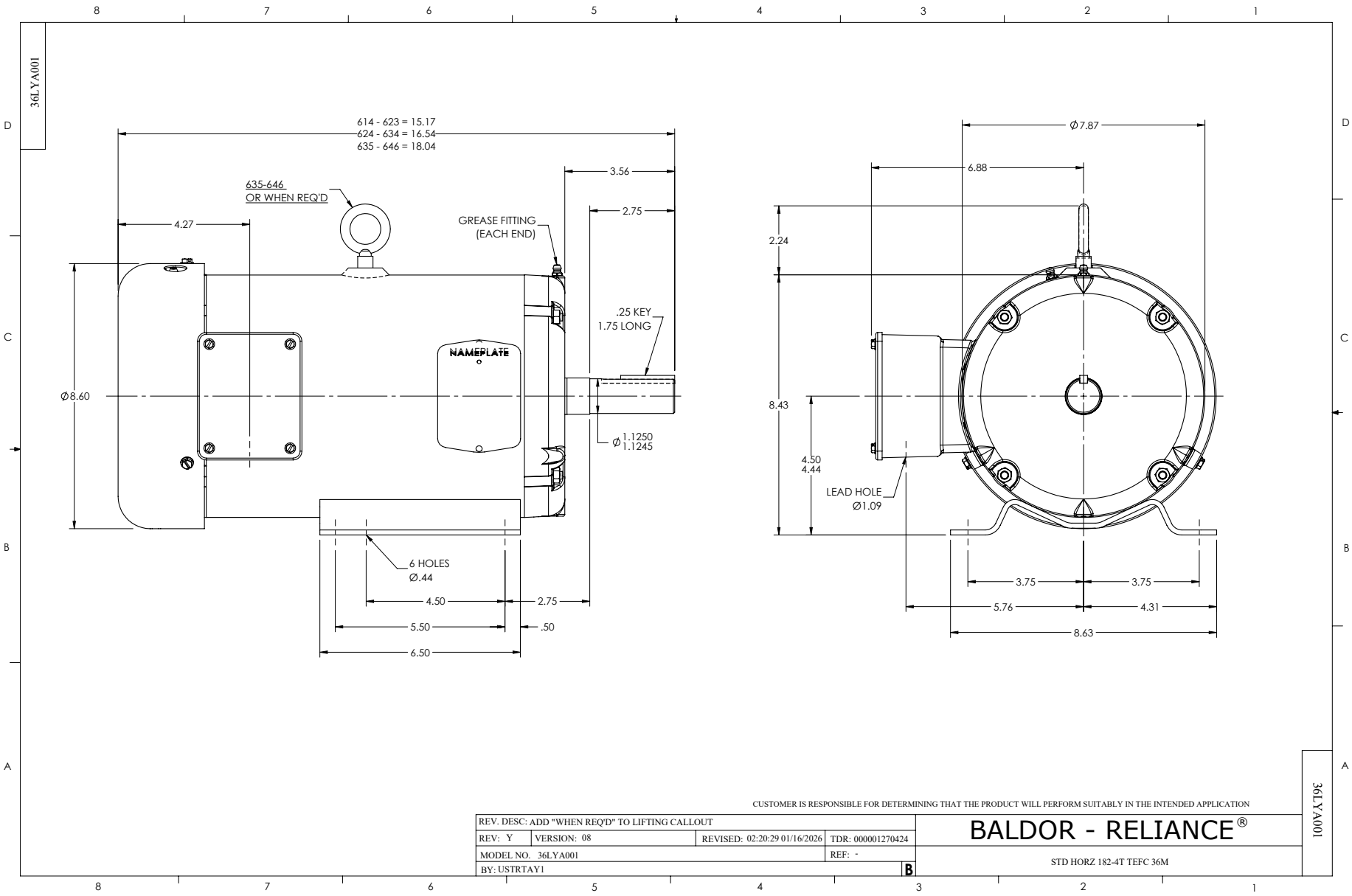
Winding: 36WGR622-R002	**Type:** 3628M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1	**Full Load Torque**	6.26 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			4.6/2.3/2.3	**Breakdown Torque**	19.8 LB-FT
R.P.M.			850	**Pull-up Torque**	12.1 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	15.7 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	9.52 A
Service Factor (S.F.)			1.15	**No-load Current**	1.55 A
NEMA Nom. Eff.	75.5	**Power Factor**	52	**Line-line Res. @ 25ºC**	16.051 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	62°C
S.F. Amps				**Temp. Rise @ S.F. Load**	74°C

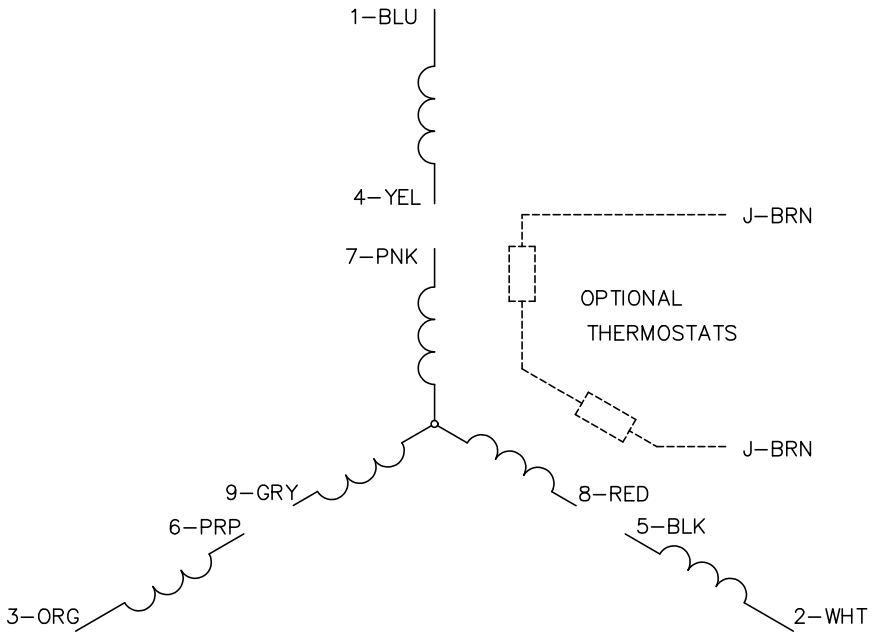
Load Characteristics 460 V, 60 Hz, 1 HP

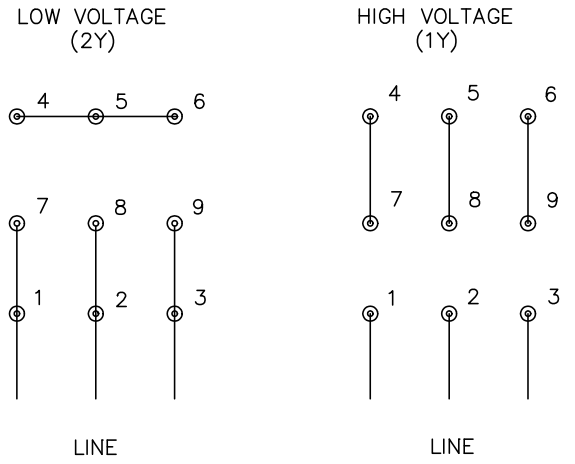
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	26	40	51	60	66	71	64
Efficiency	60.2	71.8	75.3	75.9	74.6	72.1	75.1
Speed	889.5	879.2	868.1	855	840	821.8	846
Line amperes	1.57	1.69	1.87	2.09	2.39	2.77	2.27


ABB Motors and Mechanical Inc.
WINDING # 36WGR622
1 HP 3 PH 60 HZ 850 RPM 460 V 3628M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=19.8 PU=12.1 LR=15.7 LRA=9.52
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1 HP)
11/5/2026 ACPERF, record # 53137


36LYA001
614 - 623 = 15.17
624 - 634 = 16.54
635 - 646 = 18.04
635-646
OR WHEN REQ'D
GREASE FITTING
(EACH END)
3.56
2.75
4.27
.25 KEY
1.75 LONG
NAMEPLATE
Ø8.60
Ø 1.1250
1.1245
6 HOLES
Ø.44
4.50
2.75
5.50
.50
6.50
Ø7.87
6.88
2.24
8.43
4.50
4.44
LEAD HOLE
Ø1.09
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 "WHEN REQ'D" TO LIFTING CALLOUT
REV: Y
VERSION: 08
REVISED: 02:20:29 01/16/2026
TDR: 000001270424
MODEL NO. 36LYA001
REF: -
BY: USTRTAY1
B
BALDOR - RELIANCE®
STD HORZ 182-4T TEFC 36M
36LYA001

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