ABB BALDOR RELIANCE

Customer information packet

VEBM3611T-5

3HP, 1760RPM, 3PH, 60HZ, 182TC, 3628M, TEFC, F1
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	575.0 V @ 60 HZ
Agency Approvals	UR
	CSA
	CSA EEV
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
Brake Torque	15.0 lb-ft
Current @ Voltage	3.100 A @ 575.0 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
Front Face Code	Brake Mounting
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	3.1 a

Part Detail

Revision	P
Type	AC
Mech. spec.	36E049
Base	
Status	PRD/A
Elec. spec.	36WGY438
Layout	36LYE049
Eff. date	05-01-2024
CD Diagram	CD0006
Poles	04
Leads	3#16
Proprietary	False
Created date	01-06-2006

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3628M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.56 IN
Power Factor	77
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
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	1760 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

NP1259L									
CAT.NO.	VEBM3611T-5								
SPEC.	36E049Y438G2								
HP	3								
VOLTS	575								
AMP	3.1								
RPM	1760								
FRAME	182TC	**HZ**	60				**PH**	3	
SER.F.	1.15	**CODE**	K	**DES**	B	**CL**	F		
NEMA-NOM-EFF	89.5	**PF**	77						
RATING	40C AMB-CONT								
CC	010A								
DE	6206	**ODE**	6205						
ENCL	TEFC	**SN**							

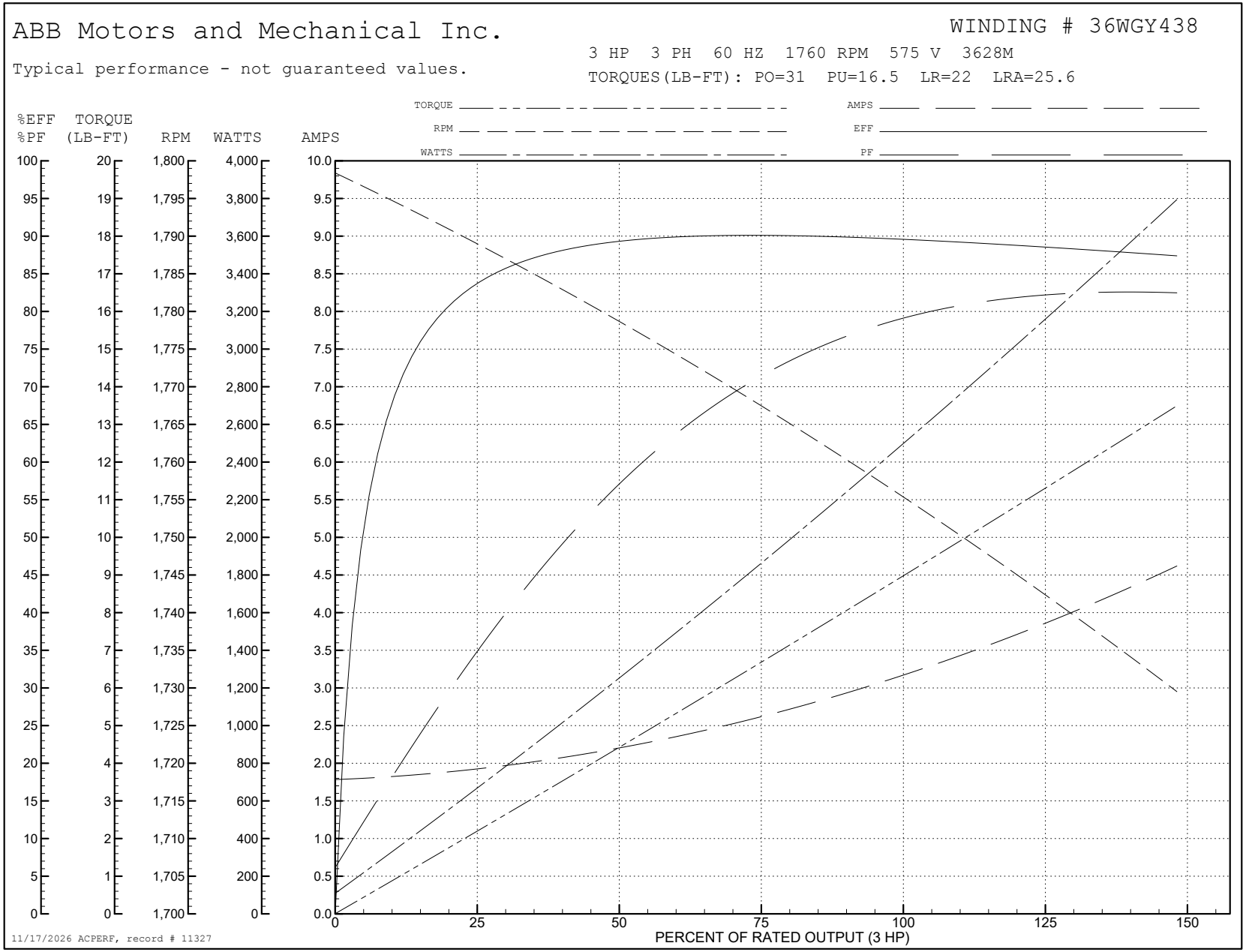
AC Induction Motor Performance Data
Record # 11327
Typical performance - not guaranteed values

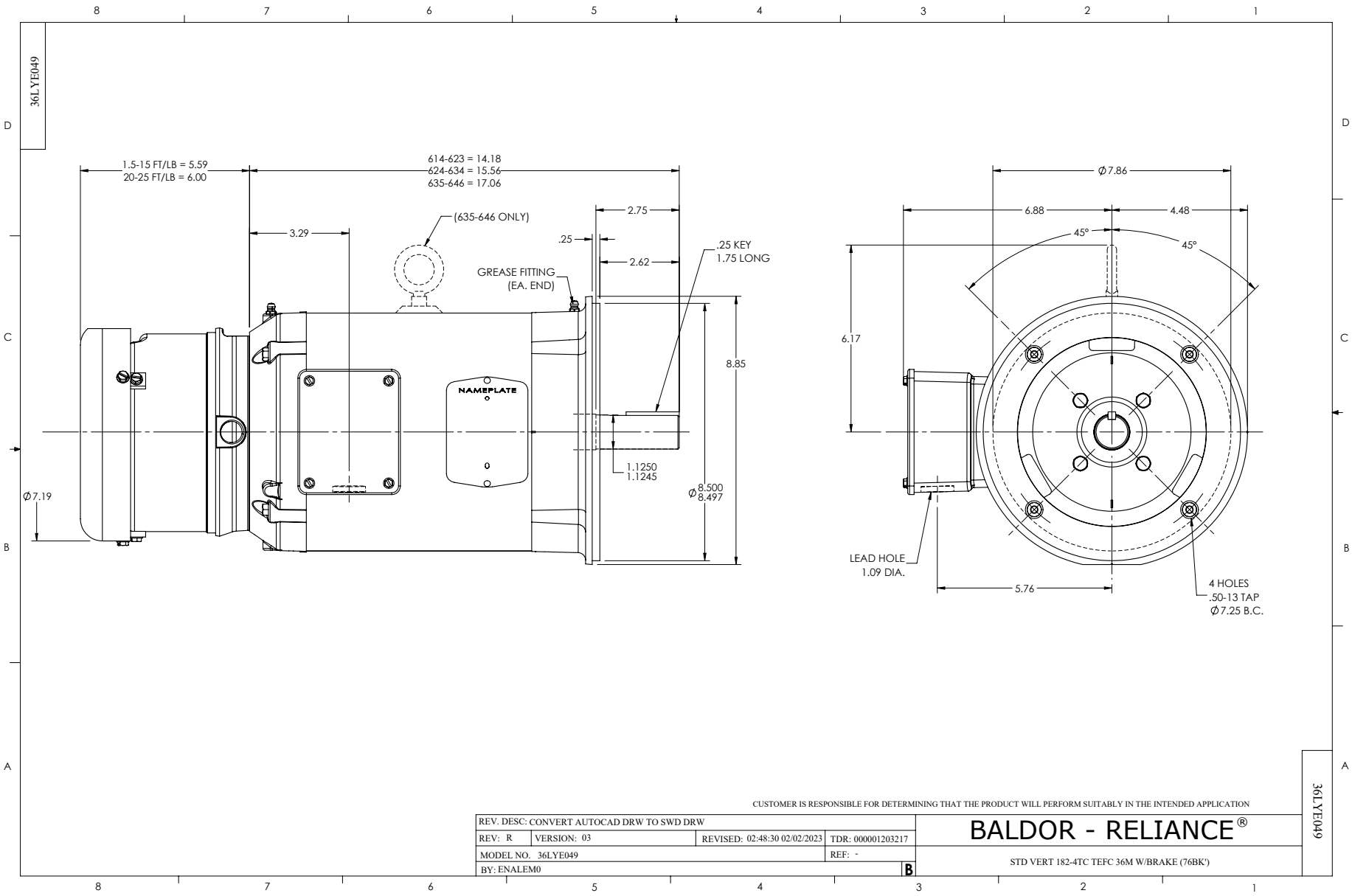
Winding: 36WGY438-R001	**Type:** 3628M	**Enclosure:** TEFC

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			3	**Full Load Torque**	9 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			3.1	**Breakdown Torque**	31 LB-FT
R.P.M.			1760	**Pull-up Torque**	16.5 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	22 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	25.6 A
Service Factor (S.F.)			1.15	**No-load Current**	1.8 A
NEMA Nom. Eff.	89.5	**Power Factor**	77	**Line-line Res. @ 25ºC**	6.11 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	41°C
S.F. Amps				**Temp. Rise @ S.F. Load**	50°C
				Locked-rotor Power Factor	42
				Rotor inertia	0.263 LB-FT2

Load Characteristics 575 V, 60 Hz, 3 HP

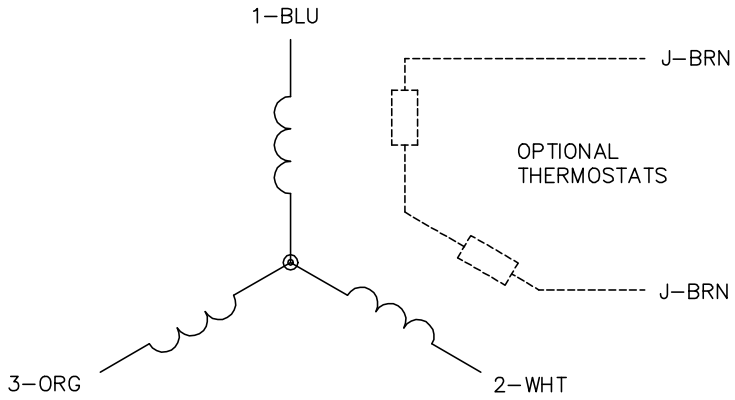
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	37	58	71	77	81	83	79
Efficiency	84	89.1	90	89.7	88.7	87.3	89.1
Speed	1788	1778	1767	1756	1743	1729	1748
Line amperes	1.9	2.2	2.7	3.1	3.9	4.6	3.6

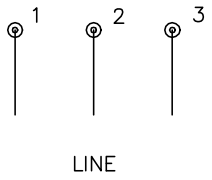

ABB Motors and Mechanical Inc.
WINDING # 36WGY438
Typical performance - not guaranteed values.
3 HP 3 PH 60 HZ 1760 RPM 575 V 3628M
TORQUES(LB-FT): PO=31 PU=16.5 LR=22 LRA=25.6
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (3 HP)
11/17/2026 ACPERF, record # 11327


36LYE049
1.5-15 FT/LB = 5.59
20-25 FT/LB = 6.00
614-623 = 14.18
624-634 = 15.56
635-646 = 17.06
(635-646 ONLY)
3.29
2.75
.25
2.62
.25 KEY
1.75 LONG
GREASE FITTING
(EA. END)
NAMEPLATE
8.85
1.1250
1.1245
Ø8.500
Ø8.497
Ø7.19
Ø7.86
6.88
4.48
45°
45°
6.17
LEAD HOLE
1.09 DIA.
5.76
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: CONVERT AUTOCAD DRW TO SWD DRW
REV: R
VERSION: 03
REVISED: 02:48:30 02/02/2023
TDR: 000001203217
MODEL NO. 36LYE049
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD VERT 182-4TC TEFC 36M W/BRAKE (76BK')
36LYE049

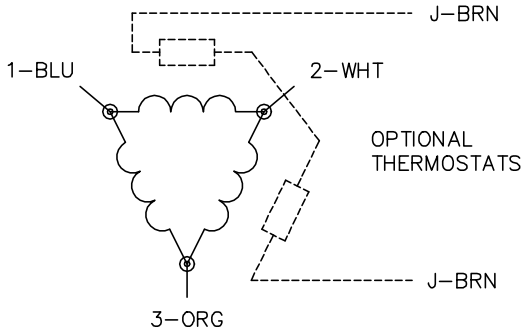
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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