

ABB BALDOR RELIANCE III

Customer information packet

VEBM3611T-5

3HP, 1760RPM, 3PH, 60HZ, 182TC, 3628M, TEFC, F1

Class - None

Division - Not Applicable

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							

Parts List

Part number	Description	Quantity
SA137218	SA 36E049Y438G2	1.000 ea
RA126840	RA 36E049Y438G2	1.000 ea
36CB3004	36 CB CASTING W/1.09 DIA LEAD HOLE @ 6:0	1.000 ea
36GS1000SP	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	1.000 ea
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 ea
36EP3306A04	FR ENDPLATE, MACH .281 FOR T-BOLT, W/O T	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
36EP3301A23	PUEP ASSEMBLY FOR ROUTING PURPOSES	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
10XN2520A28	1/4-20X 1 3/4 HEX HD	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
BR1003A01	BRAKE RELEASE LEVER	1.000 ea
HW2501D10	KEY, 3/16 SQ X 1.000	1.000 ea
35FN3002A05SP	EXFN, PLASTIC, 6.376 OD, .638 ID	1.000 ea
HA3103A02	THRUBOLT- 1/4-20 X 11.250OHIO	4.000 ea
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.022 ga
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
HA1014A02SP	SPL SPACER FOR FAN COVER MTD ON BRAKE	3.000 ea
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	3.000 ea
35FH5000A08	FAN COVER ASSY FOR BRAKE MTRS,W/ PRIMER	1.000 ea
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	3.000 ea
36CB4516	750LIPPED CB LID - GALVANNEAL	1.000 ea
37GS1001SP	GASKET, CONDUIT BOX LID, .06 THICK LEXID	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2501E16	KEY, 1/4 SQ X 1.750	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb

84XN3816J28	HEX SOC HD, 3/8-16 X 1.75 LONG	2.000 ea
76BK4100DNF	1-056-041-00-DNF BRAKE TDR# 79345	1.000 ea
NP1259L	ALUM SUPER-E UL CC NEMA PREMIUM A60	1.000 ea
GOPA1000	PKG GRP, PRINT PK1026A06	1.000 ea
PK3082	STYROFOAM CRADLE	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea

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. @ 25°C		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

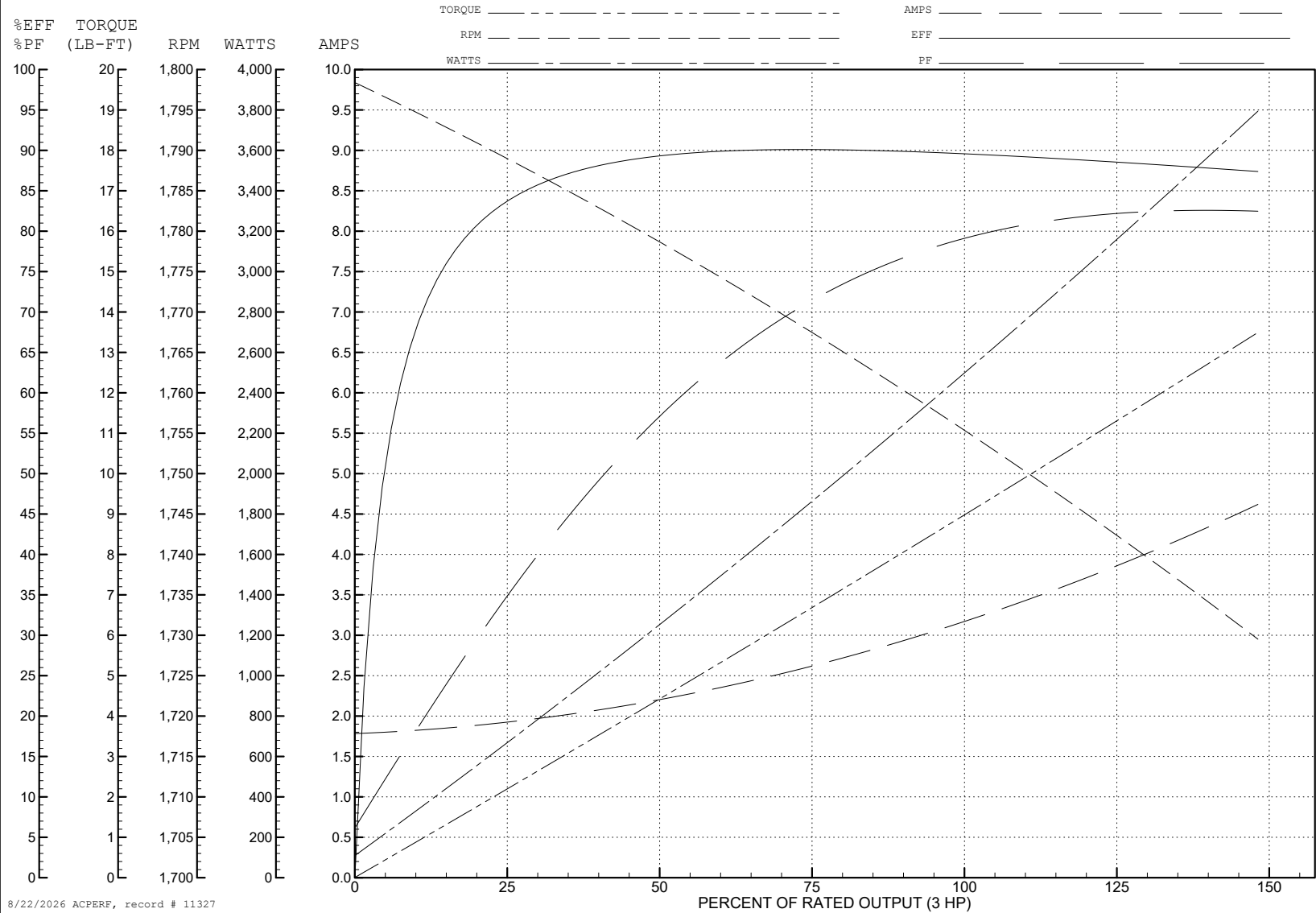
ABB Motors and Mechanical Inc.

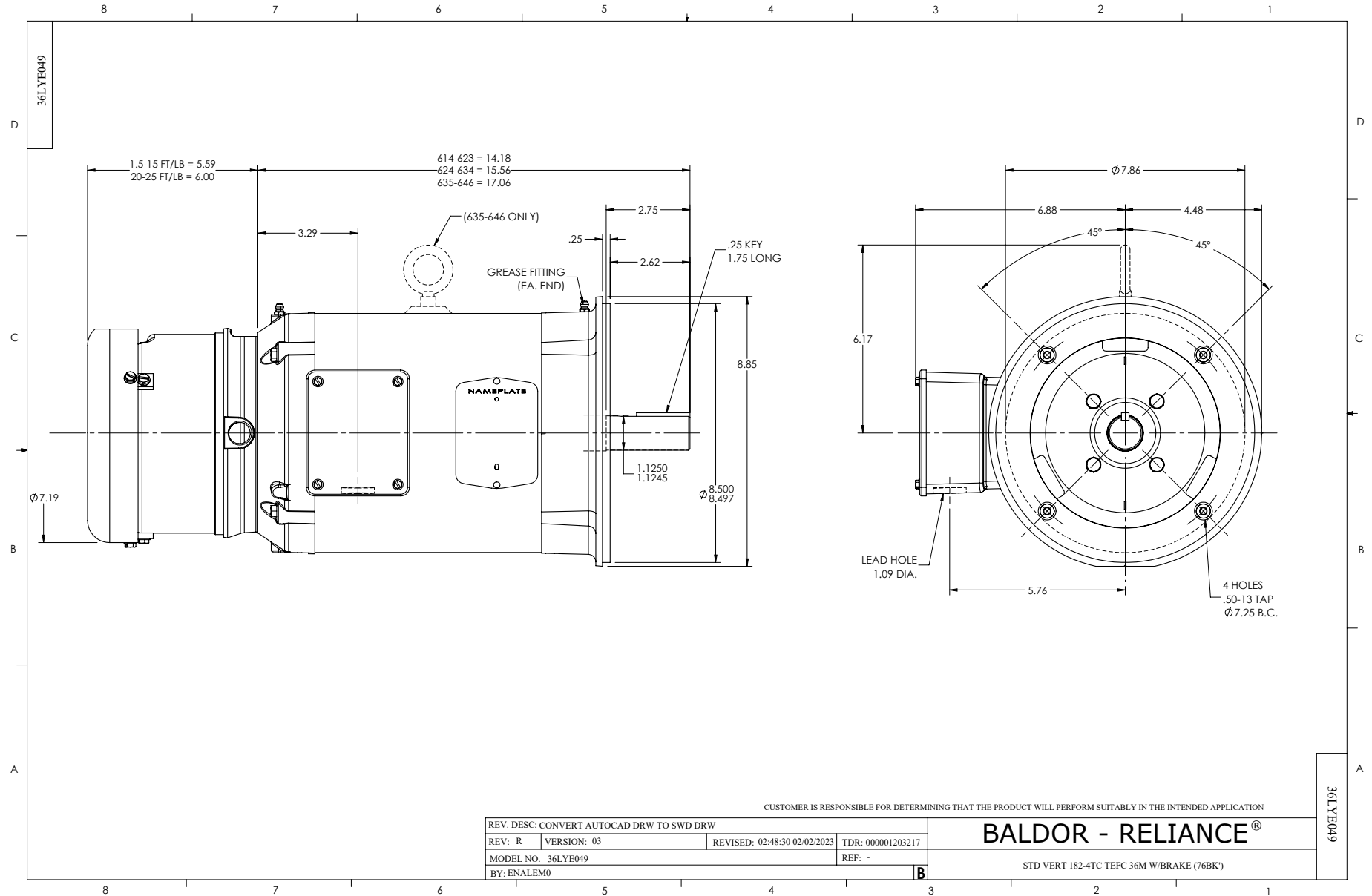
WINDING # 36WGY438

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





CD0006


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: ENBRIRO

MTL: -


BALDOR - RELIANCE®

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

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