ABB BALDOR RELIANCE

Customer information packet

VFSWDM3651-E

3HP, 1760RPM, 3PH, 60HZ, 56C, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	56C
Frame Material	Stainless 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	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA
	UR
	NEMA PREMIUM
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	8.400 A @ 230.0 V
	4.200 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
Heater Indicator	No Heater
High Voltage Full Load Amps	4.2 a
Insulation Class	H

Part Detail

Revision	G
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	36WGS987
Layout	36LY-000-048
Eff. date	08-25-2026
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	05-23-2019

Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3636M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	17.54 IN
Power Factor	76
Product Family	WD All SS Encapsulated
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
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

NP1953N01								
CAT.NO.	VFSWDM3651-E							
SPEC.	36-0000-0049							
HP	3							
VOLTS	230/460							
AMPS	8.4/4.2							
R.P.M.	1760							
FRAME	56C		**HZ**	60		**PH**	3	
SER.F.	1.15	**CODE**	K	**DES.**	B	**CLASS**	H	
NEMA NOM. EFF.	89.5		**P.F.**	76				
RATING	40C AMB-CONT							
CC	010A		**USABLE AT 208V**	N/A				
DE	6207		**ODE**	6206				
ENCL	TEFC	**SN**						
	4:1 CT, 10:1 VT							

AC Induction Motor Performance Data
Record # 39149
Typical performance - not guaranteed values

Winding: 36WGS987-R001	**Type:** 3636M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			3	**Full Load Torque**	9.04 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			8.4/4.2	**Breakdown Torque**	34.81 LB-FT
R.P.M.			1760	**Pull-up Torque**	18.62 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	21.9 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	34.1 A
Service Factor (S.F.)			1.15	**No-load Current**	2.25 A
NEMA Nom. Eff.	89.5	**Power Factor**	76	**Line-line Res. @ 25ºC**	3.58 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	62°C
S.F. Amps				**Temp. Rise @ S.F. Load**	74°C
				Locked-rotor Power Factor	41
				Rotor inertia	0.335 LB-FT2

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	36	57	69	76	80	83	78
Efficiency	82	88	89.6	89.8	89.2	88.3	89.3
Speed	1790	1781	1772	1762	1751	1738	1755
Line amperes	2.45	2.86	3.46	4.17	4.95	5.83	4.65

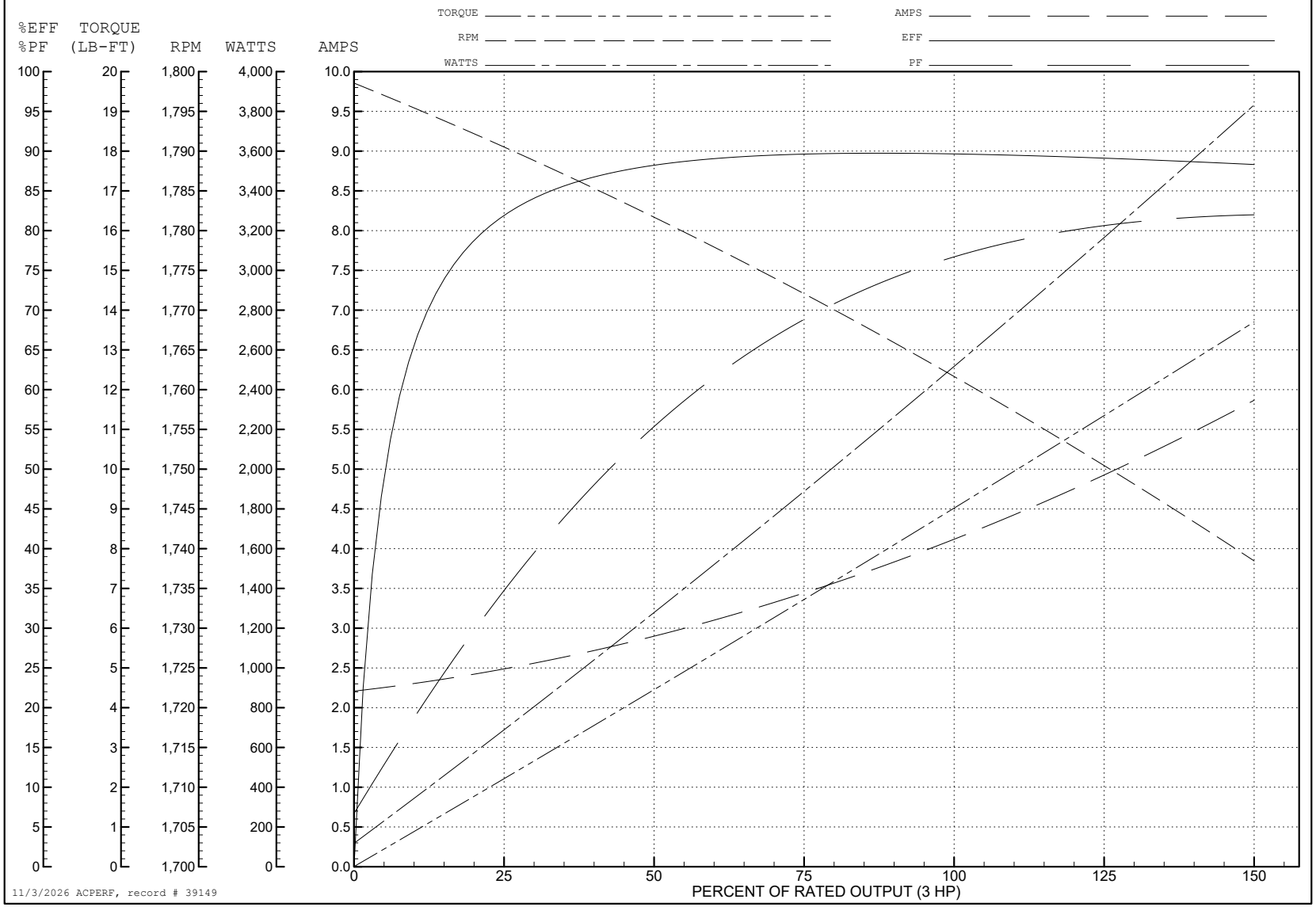
ABB Motors and Mechanical Inc.

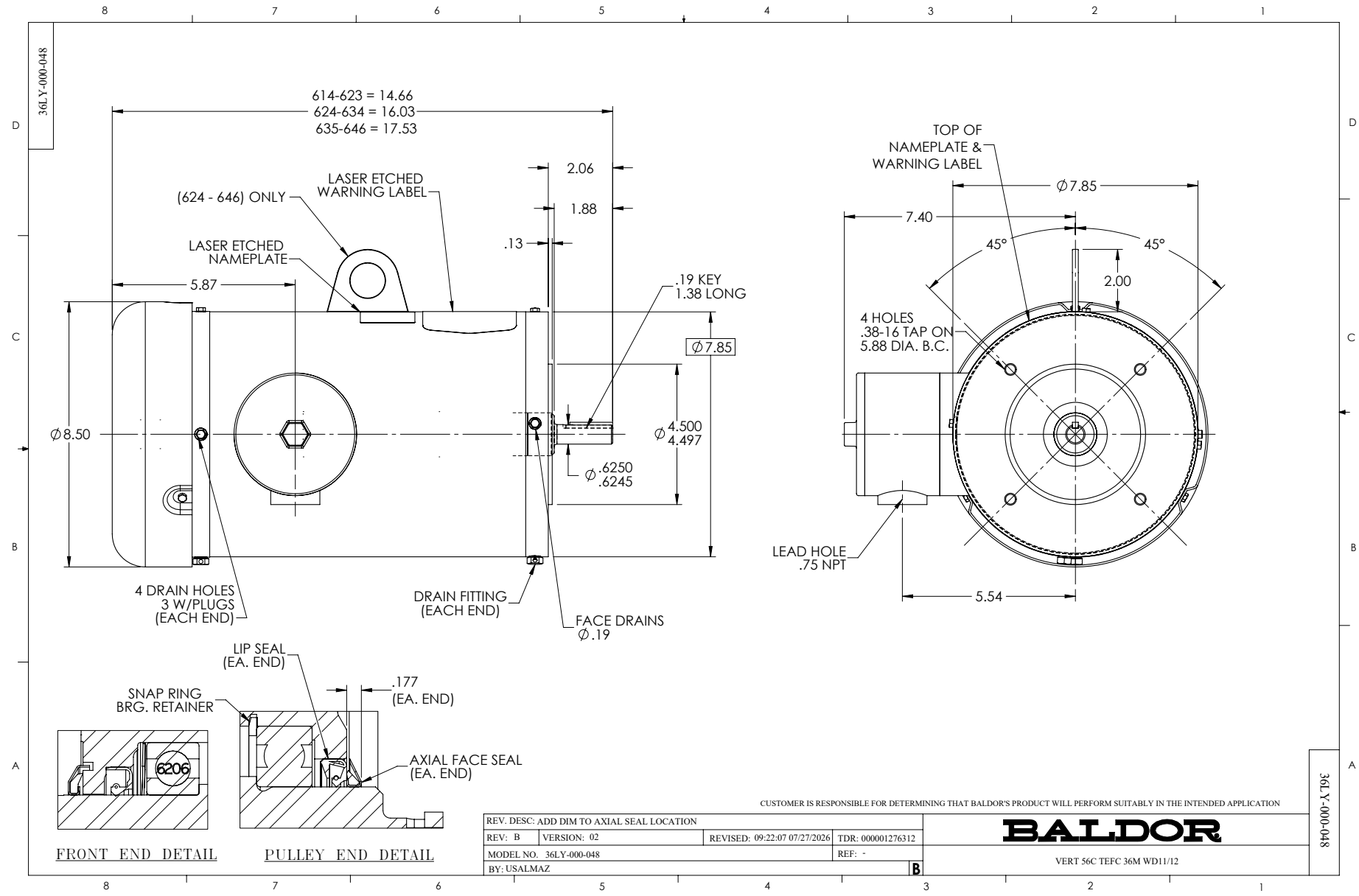
WINDING # 36WGS987

3 HP 3 PH 60 HZ 1760 RPM 460 V 3636M

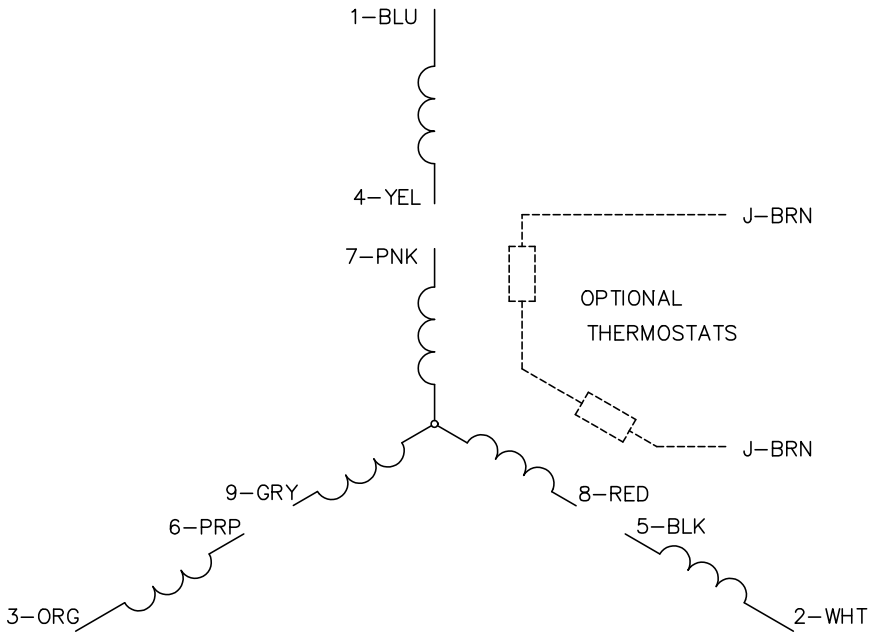
Typical performance - not guaranteed values.

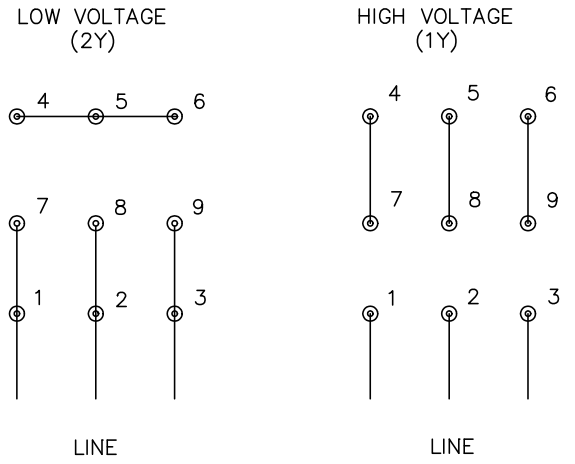
TORQUES(LB-FT): PO=34.81 PU=18.62 LR=21.9 LRA=34.1




36LY-000-048
614-623 = 14.66
624-634 = 16.03
635-646 = 17.53
2.06
1.88
.13
LASER ETCHED WARNING LABEL
(624 - 646) ONLY
LASER ETCHED NAMEPLATE
5.87
.19 KEY
1.38 LONG
∅7.85
∅8.50
∅4.500
4.497
∅.6250
.6245
4 DRAIN HOLES
3 W/PLUGS
(EACH END)
DRAIN FITTING
(EACH END)
FACE DRAINS
∅.19
TOP OF
NAMEPLATE &
WARNING LABEL
∅7.85
7.40
45°
45°
2.00
4 HOLES
.38-16 TAP ON
5.88 DIA. B.C.
LEAD HOLE
.75 NPT
5.54
LIP SEAL
(EA. END)
.177
(EA. END)
SNAP RING
BRG. RETAINER
AXIAL FACE SEAL
(EA. END)
6206
FRONT END DETAIL
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD DIM TO AXIAL SEAL LOCATION
REV: B
VERSION: 02
REVISED: 09:22:07 07/27/2026
TDR: 000001276312
MODEL NO. 36LY-000-048
REF: -
BY: USALMAZ
B
BALDOR
VERT 56C TEFC 36M WD11/12
36LY-000-048

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