



Customer information packet

VFSWDM3613T-4E

5HP, 3500RPM, 3PH, 60HZ, 182TC, 3634M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	182TC
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	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CURUSEEV NEMA PREMIUM 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	5.600 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
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	5.6 a
Insulation Class	H
Inverter Code	Inverter Ready

Part detail

Revision	A
Type	AC
Mech. spec.	36R533
Base	
Status	PRD/A
Elec. spec.	36WGZ636
Layout	36LYR533
Eff. date	09-13-2024
CD Diagram	CD0006
Poles	02
Leads	3#16
Proprietary	False
Created date	05-22-2024

KVA Code	L
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Quantity/Wire Size	3 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3634M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	17.39 IN
Power Factor	95
Product Family	WD All SD Non-Encapsulated
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	Y
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3500 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

AC Induction Motor Performance Data

Record # 105461

Typical performance - not guaranteed values

Winding: 36WGZ636-R001		Type: 3634M	Enclosure: TEFC
Nameplate Data		460 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	5	Full Load Torque	7.5 LB-FT
Volts	460	Start Configuration	direct on line
Full Load Amps	5.6	Breakdown Torque	39 LB-FT
R.P.M.	3500	Pull-up Torque	28 LB-FT
Hz	60 Phase	Locked-rotor Torque	31 LB-FT
NEMA Design Code	B KVA Code	Starting Current	62.5 A
Service Factor (S.F.)	1.15	No-load Current	1.7 A
NEMA Nom. Eff.	89.5 Power Factor	Line-line Res. @ 25°C	2.09 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	86°C
S.F. Amps		Temp. Rise @ S.F. Load	102°C
		Locked-rotor Power Factor	44.4
		Rotor inertia	0.152 lb-ft ²

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	62	83	89	93	93	93	93
Efficiency	84.5	89	90	89.6	88.8	87.9	89.1
Speed	3567	3539	3510	3480	3447	3412	3460
Line amperes	2.3	3.2	4.4	5.6	7	8.4	6.44

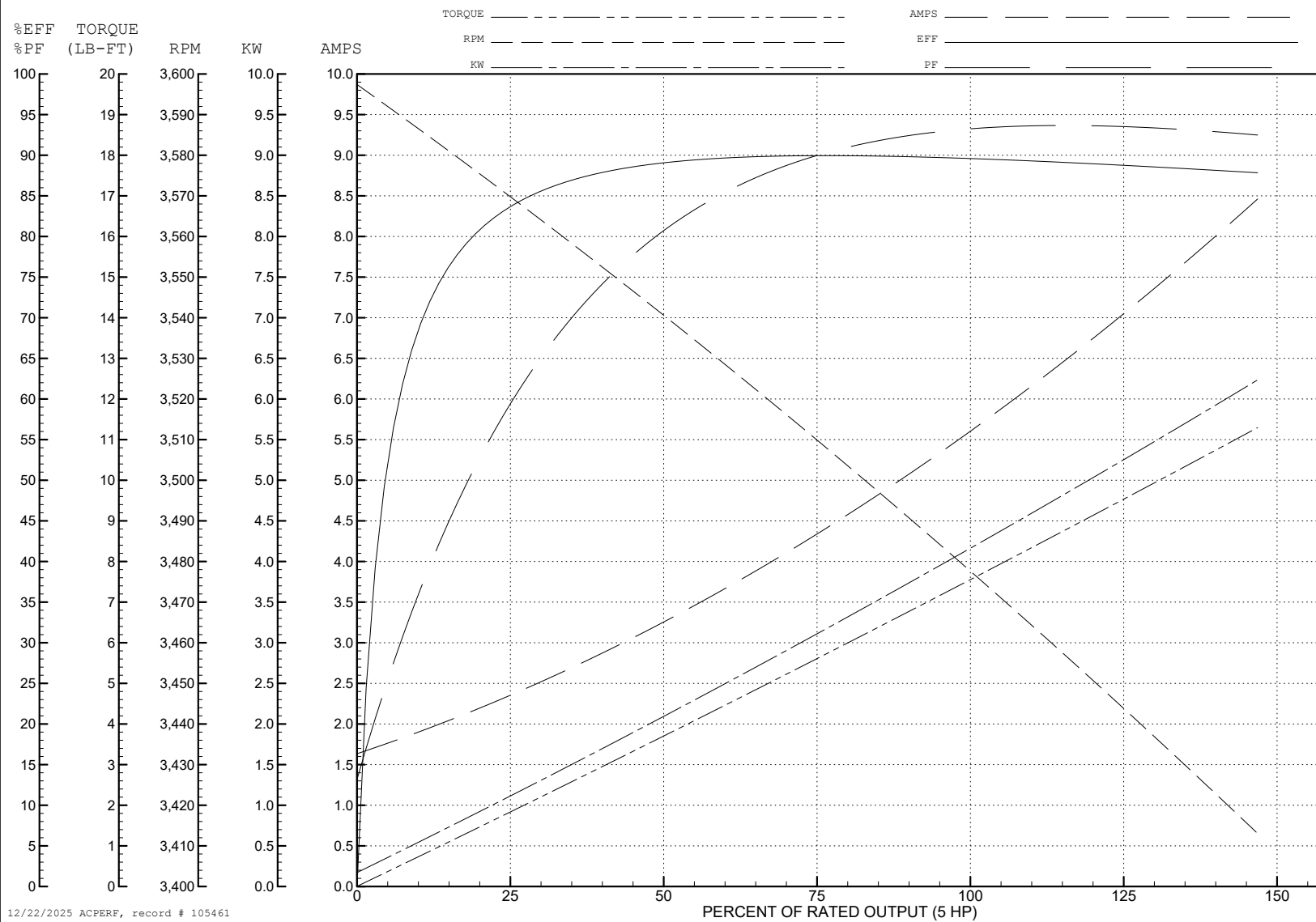
ABB Motors and Mechanical Inc.

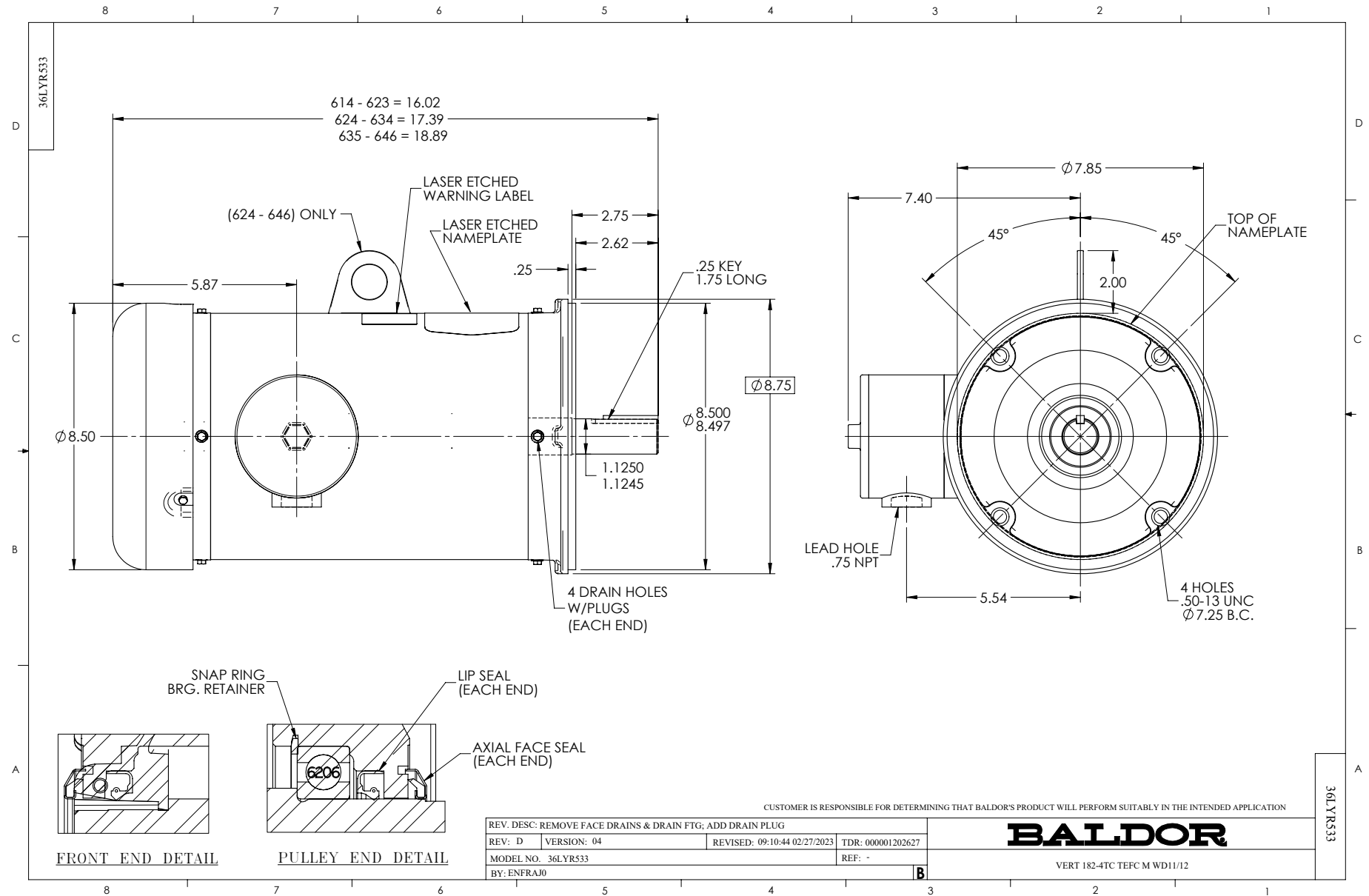
WINDING # 36WGZ636

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 3500 RPM 460 V 3634M

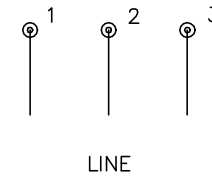
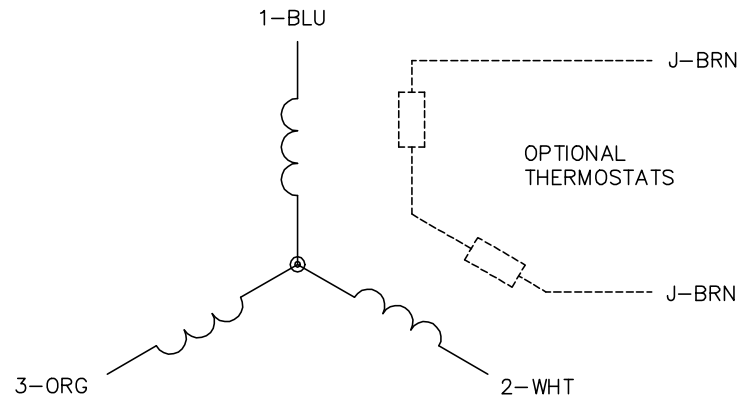
TORQUES (LB-FT) : PO=39 PU=28 LR=31 LRA=62.5



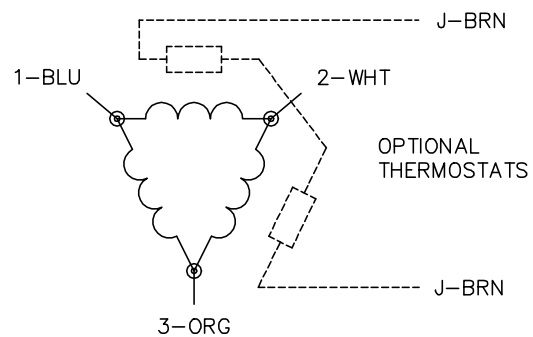


CD0006

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: ENBRIRO

MTL: —

**BALDOR - RELIANCE®**

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

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