



Customer information packet

VFSWDM3615T-4E

5HP, 1750RPM, 3PH, 60HZ, 182TC, 3646M, 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	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CURUSEEV NEMA PREMIUM WEEE
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	6.500 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	6.5 a
Insulation Class	H
Inverter Code	Inverter Ready

Part detail

Revision	A
Type	AC
Mech. spec.	36R533
Base	
Status	PRD/A
Elec. spec.	36WGZ638
Layout	36LYR533
Eff. date	09-13-2024
CD Diagram	CD0006
Poles	04
Leads	3#16
Proprietary	False
Created date	05-22-2024

KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	3 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3646M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	18.89 IN
Power Factor	81
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	1750 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

NP4427AAA02

CAT #	VFSWDM3615T-4E	WGT		LBS	
SPEC	36R533SZ638	ENCL	TEFC		
SER #		CC	010A	IP	69
HP	5	MAG CUR			
VOLTS	460	NEMA NOM. EFF			89.5
AMPS	6.5	PF	81		
RATING	40C AMB-CONT				
RPM	1750	MAX RPM	2700		
FRAME	182TC	HZ	60	CODE	J
		CLASS	H		
SER.F.	1.15	SF AMP		PH	3
		DES	B		
DE	6206	ODE	6206		
LUBRICATION	POLYREX EM				
ID LOGO	INVERTER TYPE	VPWM	CHP	60	TO 90 1.5:1
ID LOGO	WK2 0.428	CT	15	TO	60 4:1
ID LOGO	SL HZ	VT	3	TO	60 20:1
				QR	
YR					

AC Induction Motor Performance Data

Record # 105473

Typical performance - not guaranteed values

Winding: 36WGZ638-R001		Type: 3646M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: Single Voltage Motor		
Rated Output (HP)	5	Full Load Torque	15.03 LB-FT		
Volts	460	Start Configuration	direct on line		
Full Load Amps	6.5	Breakdown Torque	57.4 LB-FT		
R.P.M.	1750	Pull-up Torque	28.9 LB-FT		
Hz	60	Locked-rotor Torque	32.3 LB-FT		
NEMA Design Code	B	Starting Current	47.9 A		
Service Factor (S.F.)	1.15	No-load Current	2.91 A		
NEMA Nom. Eff.	89.5	Line-line Res. @ 25°C	2.34 Ω		
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	75°C		
S.F. Amps		Temp. Rise @ S.F. Load	91°C		
		Locked-rotor Power Factor	39		
		Rotor inertia	0.428 lb-ft ²		

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	42	64	75	90	83	84	86
Efficiency	86.7	90.5	90.8	89.3	88.4	86.6	88.8
Speed	1788	1776	1763	1748	1732	1714	1738
Line amperes	3.27	4.1	5.2	6.53	8.02	9.69	7.42

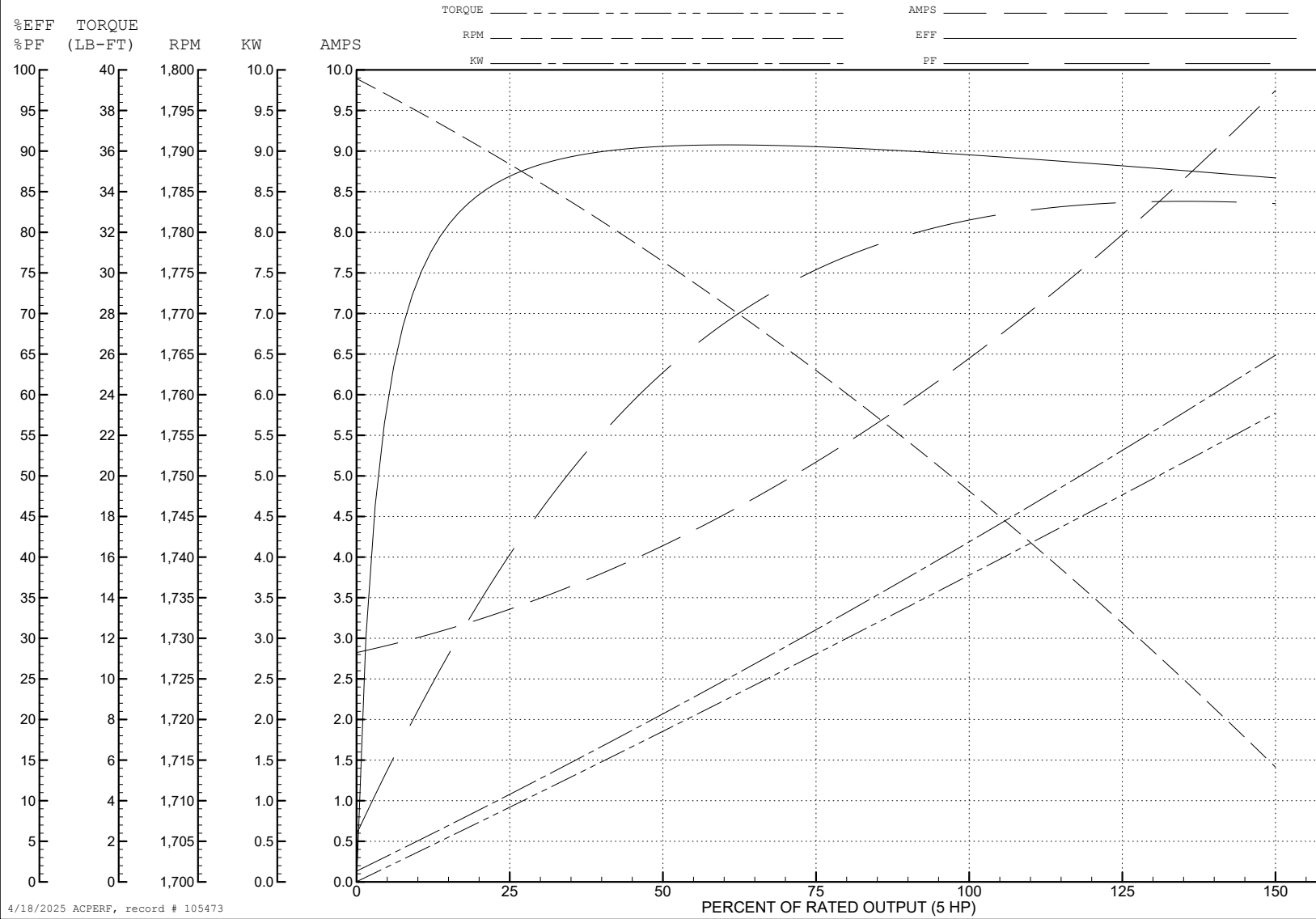
ABB Motors and Mechanical Inc.

WINDING # 36WGZ638

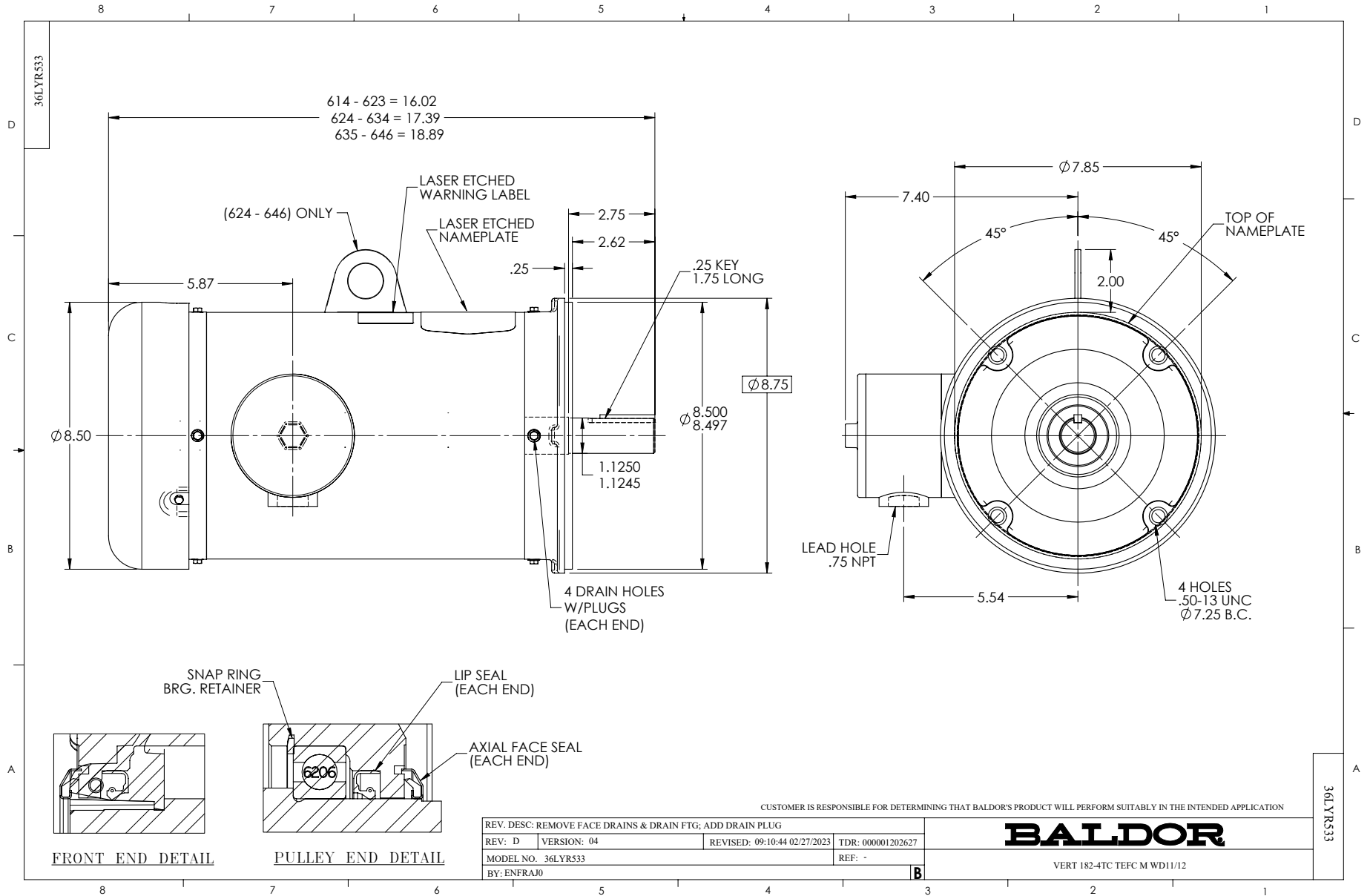
5 HP 3 PH 60 HZ 1750 RPM 460 V 3646M

Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=57.4 PU=28.9 LR=32.3 LRA=47.9



4/18/2025 ACPERF, record # 105473



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

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BALDOR - RELIANCE®

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

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