

ABB BALDOR RELIANCE III

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	B
Type	AC
Mech. spec.	36R533
Base	
Status	PRD/A
Elec. spec.	36WGZ636
Layout	36LYR533
Eff. date	08-03-2026
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

Nameplate

NP4427AAA02													
CAT #	VFSWDM3613T-4E					WGT	81		LBS				
SPEC	36R533TZ636					ENCL	TEFC						
SER #						CC	010A		IP	69			
HP	5		MAG CUR										
VOLTS	460					NEMA NOM. EFF					89.5		
AMPS	5.6					PF	95						
RATING	40C AMB-CONT												
RPM	3500					MAX RPM	5400						
FRAME	182TC		HZ	60		CODE	L	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	0.15	CT	15	TO	60	4:1						
ID LOGO	SL HZ		VT	3	TO	60	20:1						
						QR							
YR													

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	3	Locked-rotor Torque	31 LB-FT	
NEMA Design Code	B	KVA Code	L	Starting Current	62.5 A	
Service Factor (S.F.)		1.15	No-load Current		1.7 A	
NEMA Nom. Eff.	89.5	Power Factor	95	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-ft²	

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

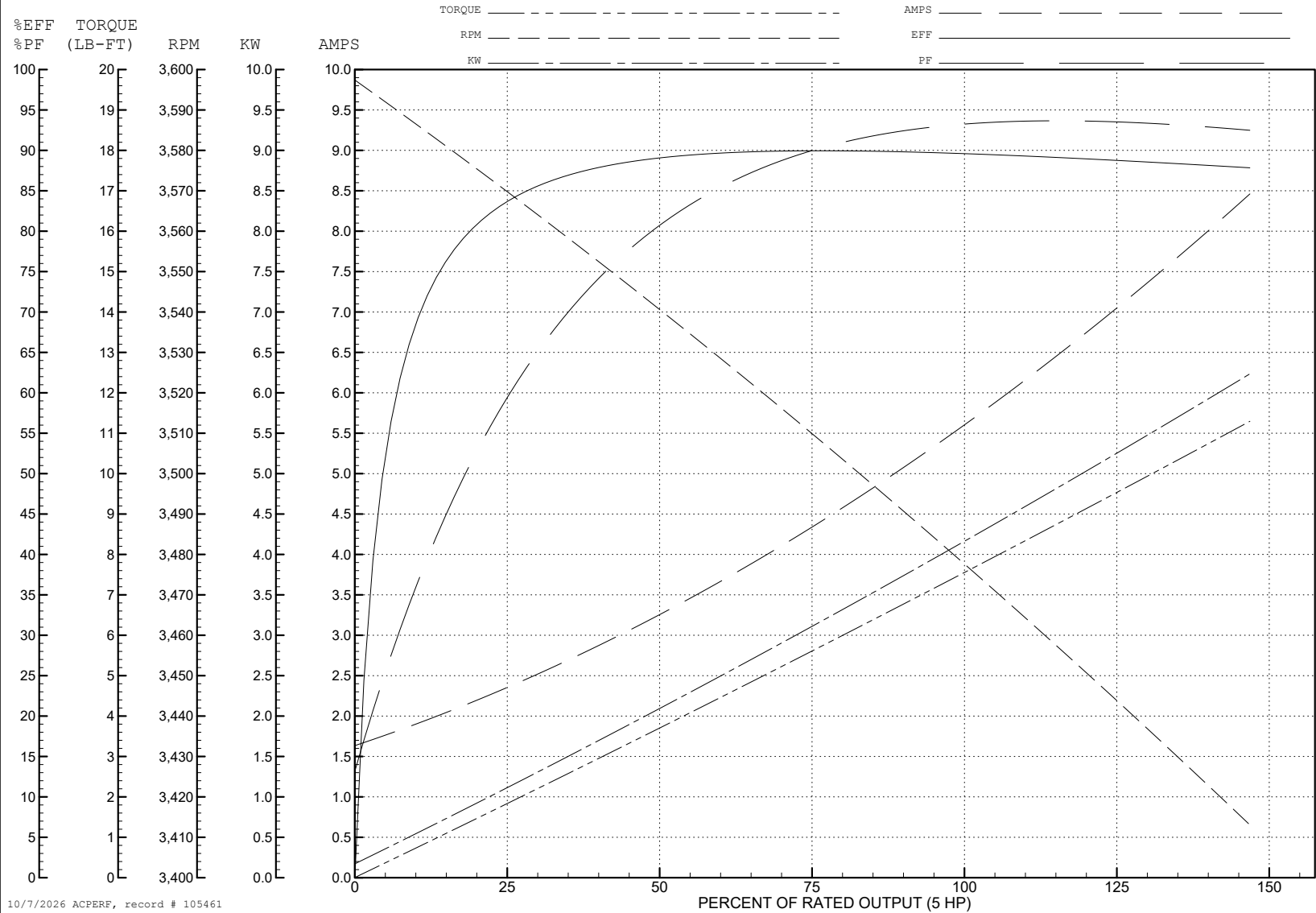
ABB Motors and Mechanical Inc.

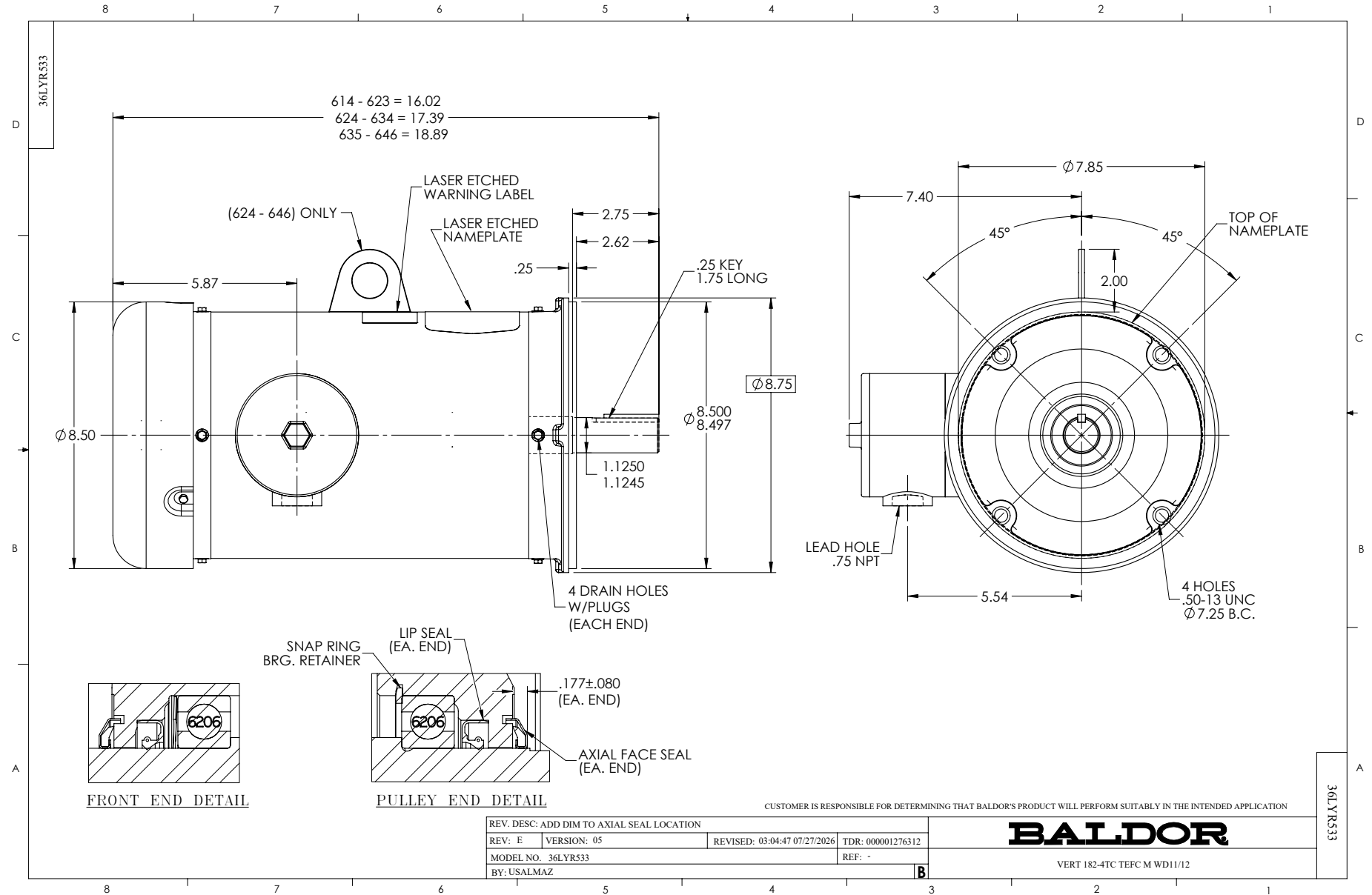
WINDING # 36WGZ636

Typical performance - not guaranteed values.

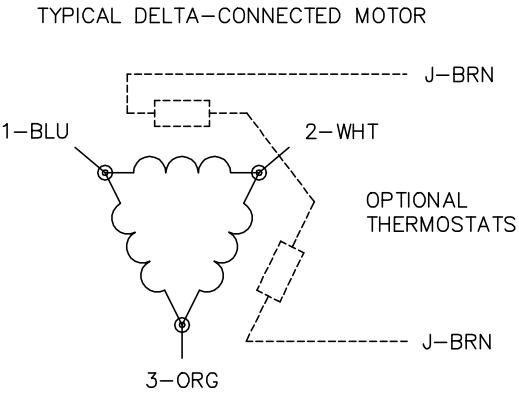
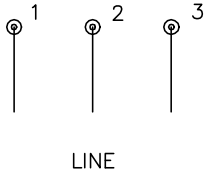
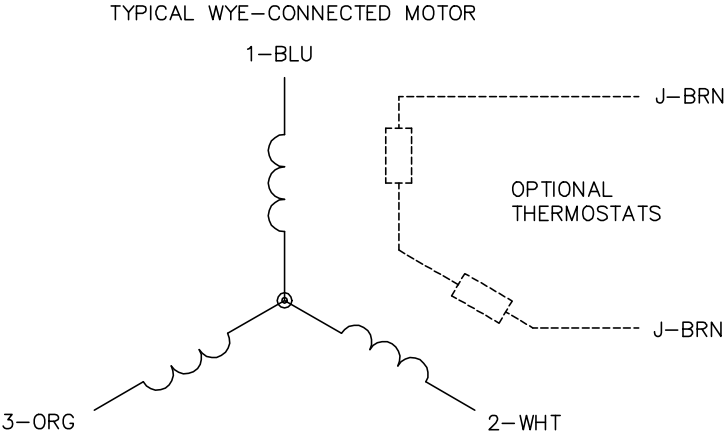
5 HP 3 PH 60 HZ 3500 RPM 460 V 3634M

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





CD0006



- 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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