ABB BALDOR RELIANCE

Customer information packet

VFSWDM3556-E

1HP, 1170RPM, 3PH, 60HZ, 56C, 3532M, TEFC, F1, N
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	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CSA EEV
	CURUSEEV
	NEMA PREMIUM
	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	3.800 A @ 230.0 V
	3.800 A @ 208.0 V
	1.900 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

Part Detail

Revision	C
Type	AC
Mech. spec.	35E4649
Base	
Status	PRD/A
Elec. spec.	35WGG333
Layout	35LYE4649
Eff. date	02-29-2024
CD Diagram	CD0005
Poles	06
Leads	9#18
Proprietary	False
Created date	09-09-2022

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.9 a
Insulation Class	H
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Finish	UNPAINTED
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3532M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	14.83 IN
Power Factor	61
Product Family	WD All SS Encapsulated
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1170 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

NP4427AAA01												
CAT #	VFSWDM3556-E			**WT**	47	**LBS**						
SPEC	35E4649G333G1			**ENCL**	TEFC							
SER #				**CC**	010A	**IP**	69					
HP	1			**MAG CUR**	2.7/1.35							
VOLTS	230/460					**NEMA NOM. EFF**	82.5					
AMPS	3.8/1.9					**PF**	61					
RATING	40C AMB-CONT											
RPM	1170					**MAX RPM**	1800					
FRAME	56C	**HZ**	60	**CODE**	L	**CLASS**	H					
SER.F.	1.15	**SF AMP**	4.02/2.01			**PH**	3	**DES**	B			
DE	6205			**ODE**	6205							
LUBRICATION	POLYREX EM											
ID LOGO		**INVERTER TYPE**		**VPWM**		**CHP**	60	**TO**	90		1.5:1	
ID LOGO	**WK2**	0.232	**CT**	15	**TO**	60		4:1				
ID LOGO	**SL HZ**	1.25	**VT**	3	**TO**	60		20:1				
						QR						
YR												

AC Induction Motor Performance Data
Record # 87686
Preliminary Data Sheet

Winding: 35WGG333-R001	**Type:** 3532M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1	**Full Load Torque**	4.5 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			3.8/1.9	**Breakdown Torque**	18.8 LB-FT
R.P.M.			1170	**Pull-up Torque**	10.3 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	12 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	12.4 A
Service Factor (S.F.)			1.15	**No-load Current**	1.35 A
NEMA Nom. Eff.	82.5	**Power Factor**	61	**Line-line Res. @ 25ºC**	14.7 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	50°C
S.F. Amps				**Temp. Rise @ S.F. Load**	62°C
				Locked-rotor Power Factor	46
				Rotor inertia	0.232 lb-ft²

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	26	40	52	61	68	72	65
Efficiency	67.6	78.2	81.6	82.5	82.1	81	82.3
Speed	1194	1188	1182	1175	1167	1159	1170
Line amperes	1.38	1.48	1.65	1.86	2.11	2.4	2.01

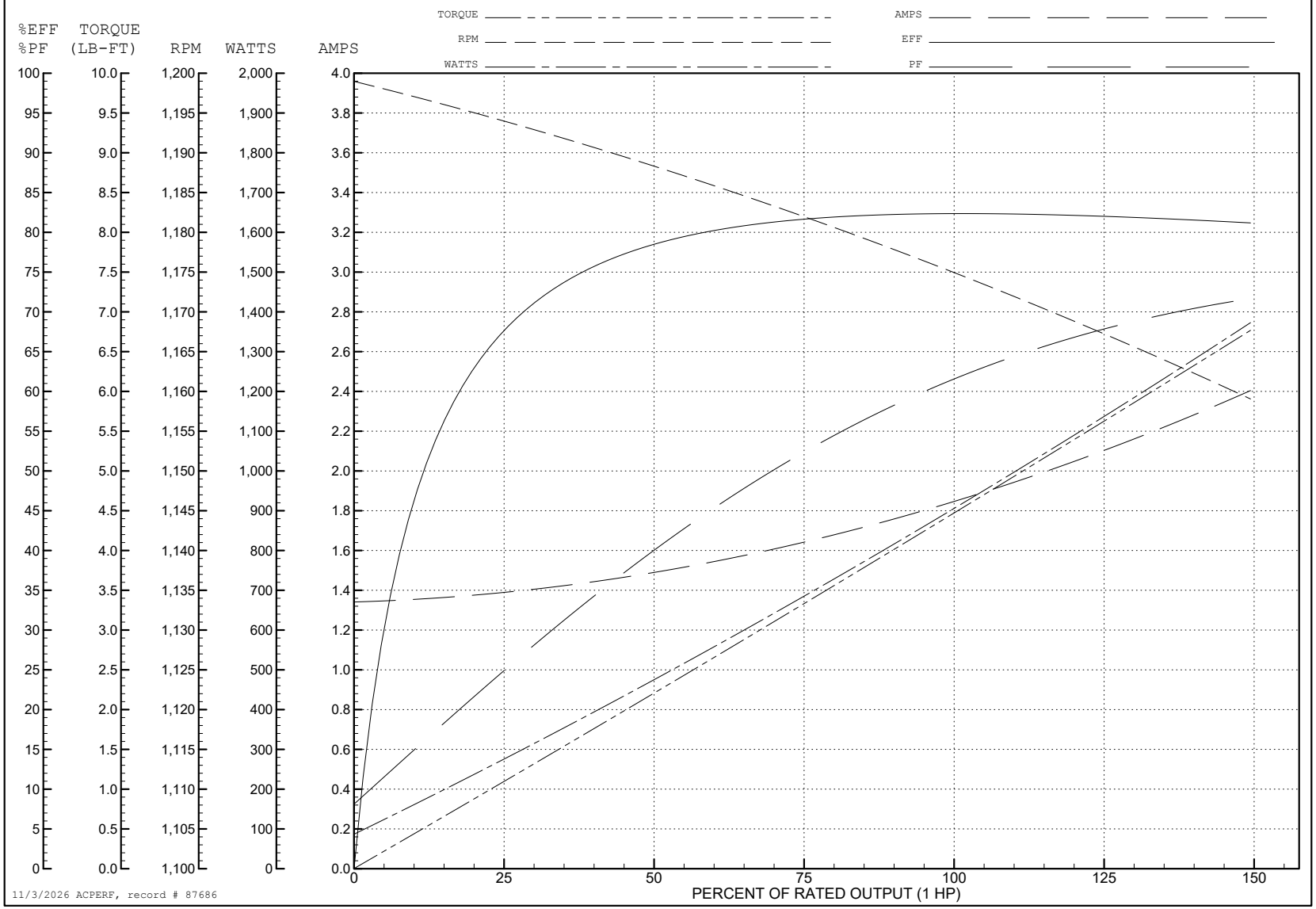
ABB Motors and Mechanical Inc.

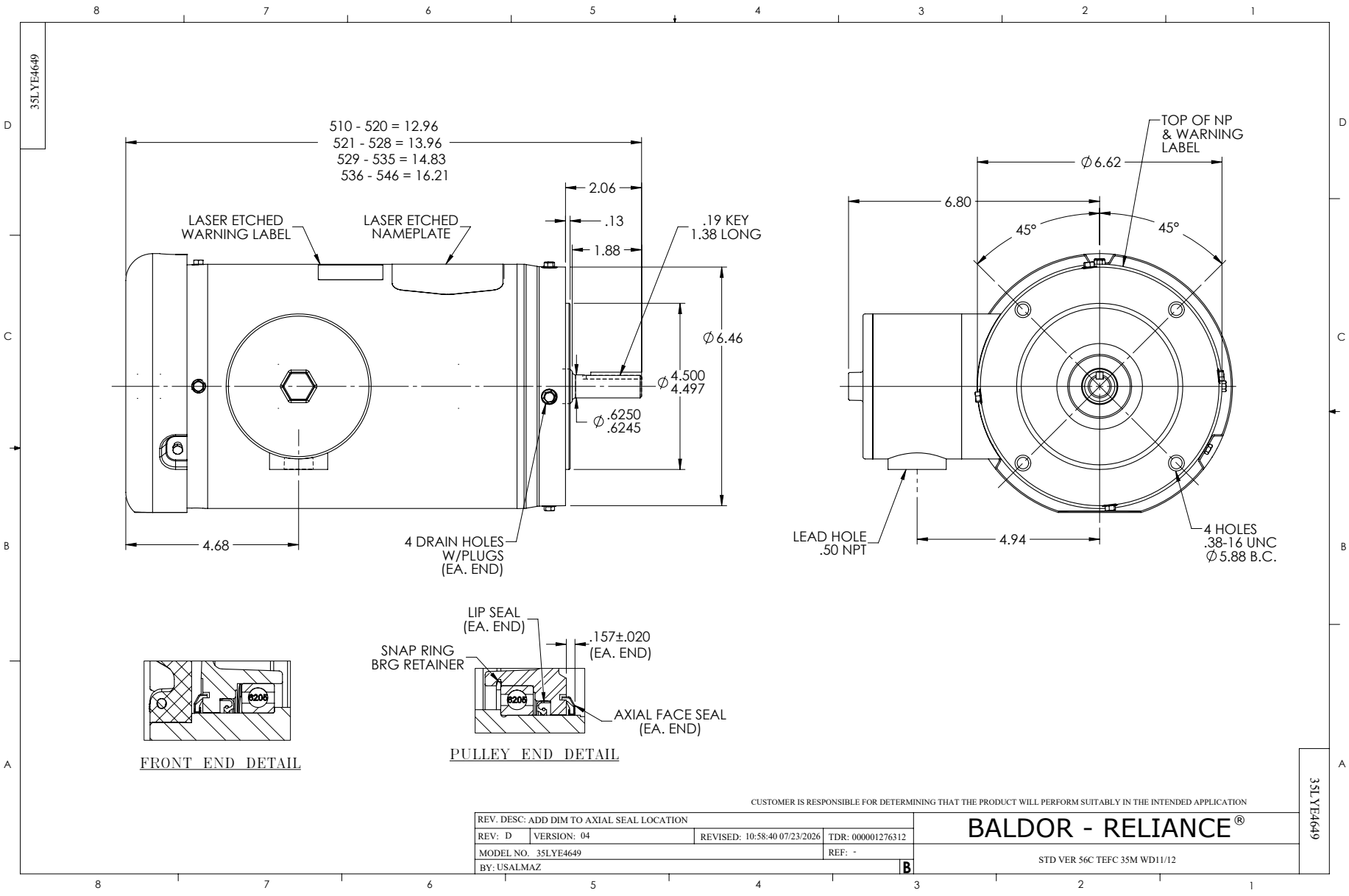
WINDING # 35WGG333

1 HP 3 PH 60 HZ 1170 RPM 460 V 3532M

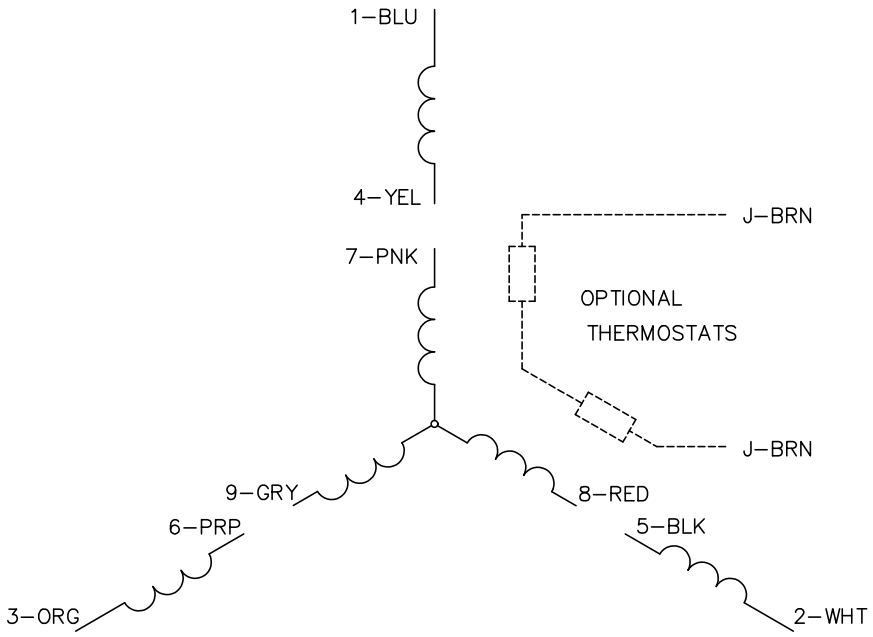
Typical performance - not guaranteed values.

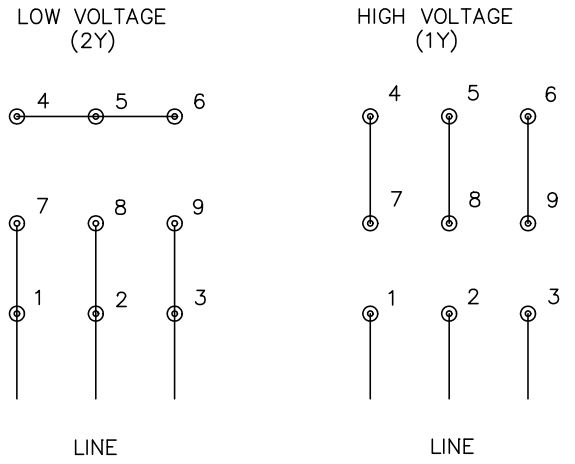
TORQUES(LB-FT): PO=18.8 PU=10.3 LR=12 LRA=12.4




35LYE4649
510 - 520 = 12.96
521 - 528 = 13.96
529 - 535 = 14.83
536 - 546 = 16.21
2.06
.13
1.88
.19 KEY
1.38 LONG
LASER ETCHED
WARNING LABEL
LASER ETCHED
NAMEPLATE
Ø6.46
Ø4.500
4.497
Ø.6250
.6245
4.68
4 DRAIN HOLES
W/PLUGS
(EA. END)
TOP OF NP
& WARNING
LABEL
Ø6.62
6.80
45°
45°
LEAD HOLE
.50 NPT
4.94
4 HOLES
.38-16 UNC
Ø5.88 B.C.
LIP SEAL
(EA. END)
.157±.020
(EA. END)
SNAP RING
BRG RETAINER
AXIAL FACE SEAL
(EA. END)
6206
FRONT END DETAIL
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD DIM TO AXIAL SEAL LOCATION
REV: D
VERSION: 04
REVISED: 10:58:40 07/23/2026
TDR: 000001276312
MODEL NO. 35LYE4649
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
STD VER 56C TEFC 35M WD11/12
35LYE4649

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