

**BALDOR • RELIANCE**

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# Customer information packet

## VFSWDM3543-E

.75HP, 1170RPM, 3PH, 60HZ, 56C, 3530M, TENV, F1

Class - None

Division - Not Applicable

## Specifications

Enclosure	TENV
Frame	56C
Frame Material	Stainless Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	.750 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ 230.0 V @ 60 HZ 460.0 V @ 60 HZ
XP Class and Group	None
XP Division	Not Applicable
Agency Approvals	CSA CURUSEEV NEMA PREMIUM 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	2.800 A @ 208.0 V 2.700 A @ 230.0 V 1.350 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

## Part detail

Revision	C
Type	AC
Mech. spec.	35E4656
Base	
Status	PRD/A
Elec. spec.	35WGG335
Layout	35LYE4656
Eff. date	11-08-2023
CD Diagram	CD0005
Poles	06
Leads	9#18
Proprietary	False
Created date	09-09-2022

Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.4 a
Insulation Class	H
Inverter Code	Inverter Duty
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	3530M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	13.67 IN
Power Factor	61
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
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

<b>Vibration Sensor Indicator</b>	<b>No Vibration Sensor</b>
<b>Winding Thermal 1</b>	<b>None</b>
<b>Winding Thermal 2</b>	<b>None</b>

**Nameplate**

<b>NP4427AAA01</b>											
<b>CAT #</b>	VFSWDM3543-E			<b>WT</b>	45	<b>LBS</b>					
<b>SPEC</b>	35E4656G335G1			<b>ENCL</b>	TENV						
<b>SER #</b>				<b>CC</b>	010A	<b>IP</b>	69				
<b>HP</b>	.75	<b>MAG CUR</b>		1.6-1.8/.9							
<b>VOLTS</b>	208-230/460			<b>NEMA NOM. EFF</b>		82.5					
<b>AMPS</b>	2.8-2.7/1.35			<b>PF</b>	61						
<b>RATING</b>	40C AMB-CONT										
<b>RPM</b>	1170			<b>MAX RPM</b>		1800					
<b>FRAME</b>	56C	<b>HZ</b>	60	<b>CODE</b>	L	<b>CLASS</b>	H				
<b>SER.F.</b>	1.15	<b>SF AMP</b>	3-2.9/1.45		<b>PH</b>	3	<b>DES</b>	B			
<b>DE</b>	6205		<b>ODE</b>	6205							
<b>LUBRICATION</b>	POLYREX EM										
<b>ID LOGO</b>	<b>INVERTER TYPE</b>		<b>VPWM</b>		<b>CHP</b>	60	<b>TO</b>	90	1.5:1		
<b>ID LOGO</b>	<b>WK2</b>	0.217	<b>CT</b>	15	<b>TO</b>	60	4:1				
<b>ID LOGO</b>	<b>SL HZ</b>	1.5	<b>VT</b>	3	<b>TO</b>	60	20:1				
				<b>QR</b>							
<b>YR</b>											

**AC Induction Motor Performance Data**

Record # 87730

Preliminary Data Sheet

Winding: 35WGG335-R001		Type: 3530M		Enclosure: TENV	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
Rated Output (HP)	.75	Full Load Torque	3.38 LB-FT		
Volts	208-230/460	Start Configuration	direct on line		
Full Load Amps	2.8-2.7/1.35	Breakdown Torque	13.03 LB-FT		
R.P.M.	1170	Pull-up Torque	7.09 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque	8.26 LB-FT	
NEMA Design Code	B	KVA Code	L	Starting Current	8.66 A
Service Factor (S.F.)	1.15	No-load Current	0.928 A		
NEMA Nom. Eff.	82.5	Power Factor	61	Line-line Res. @ 25°C	22.1 Ω
Rating - Duty	40C	AMB-CONT	Temp. Rise @ Rated Load		
S.F. Amps	3-2.9/1.45	Temp. Rise @ S.F. Load	80°C		
		Locked-rotor Power Factor	46.9		
		Rotor inertia	0.218 lb-ft <sup>2</sup>		

**Load Characteristics 460 V, 60 Hz, 0.75 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	28	43	55	64	70	74	68
Efficiency	67.6	78.4	81.4	82.1	81.5	80.3	81.7
Speed	1194	1187	1181	1173	1165	1156	1168
Line amperes	0.953	1.04	1.17	1.34	1.54	1.77	1.46

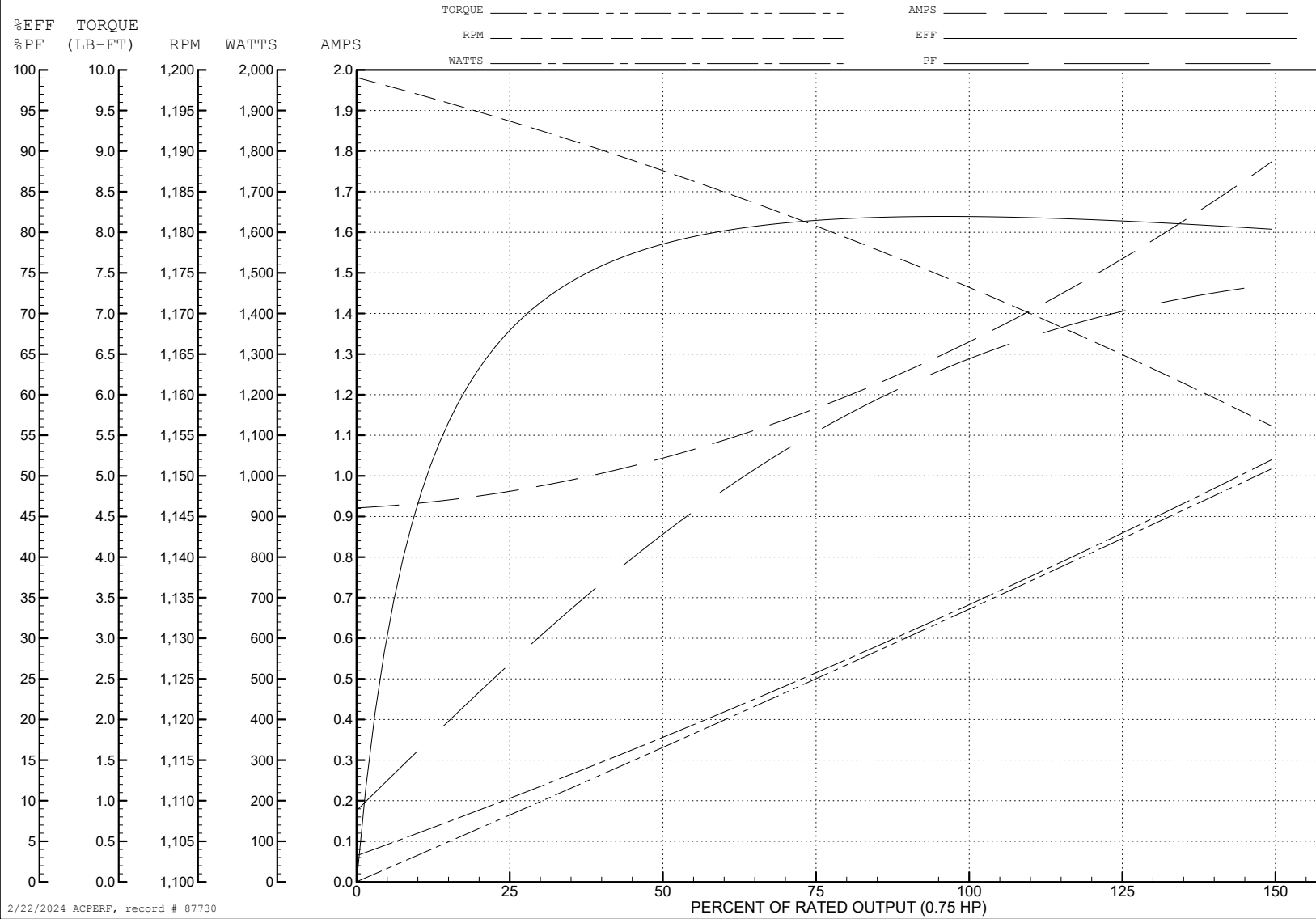
ABB Motors and Mechanical Inc.

WINDING # 35WGG335

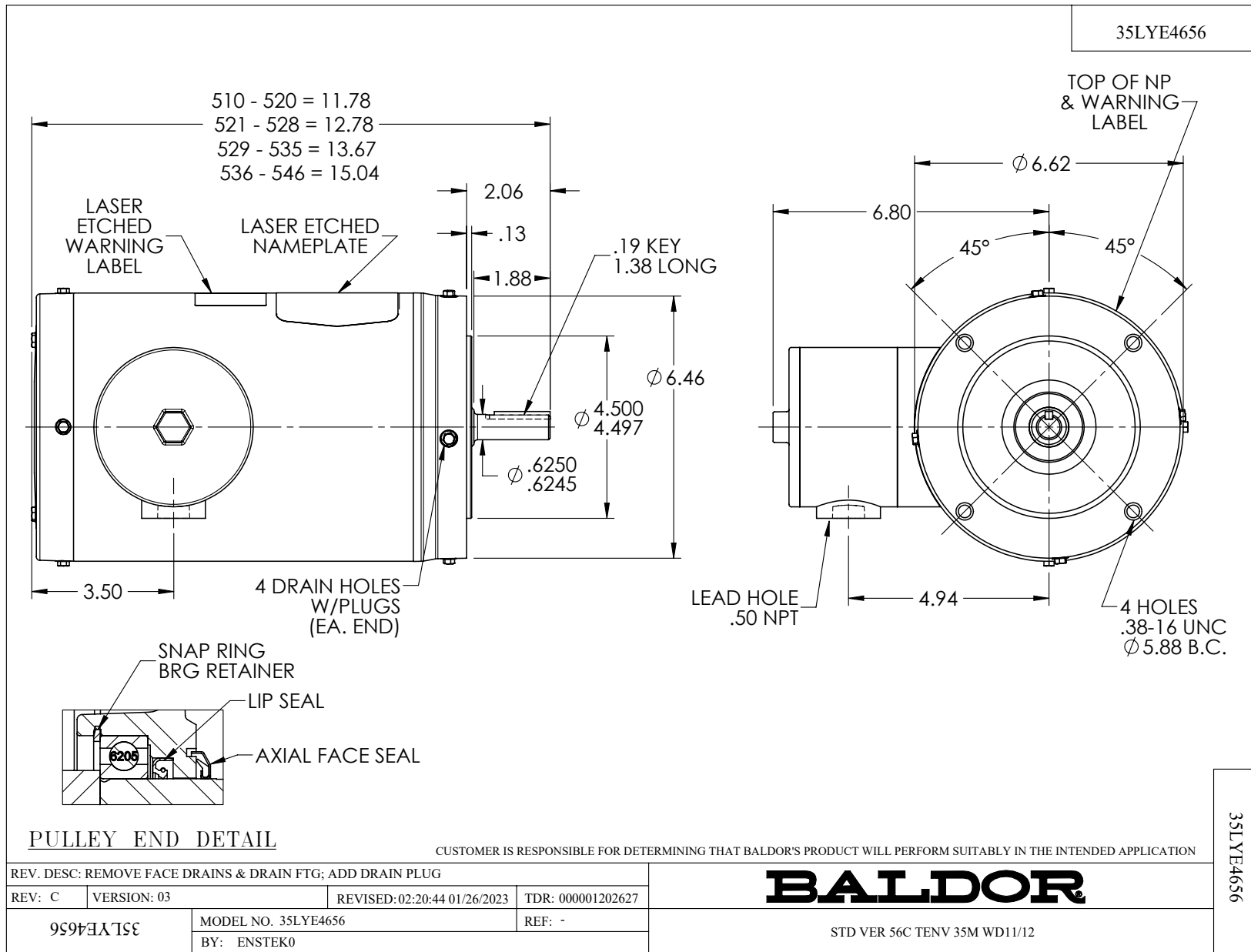
Typical performance - not guaranteed values.

0.75 HP 3 PH 60 HZ 1170 RPM 460 V 3530M

TORQUES (LB-FT): PO=13.03 PU=7.09 LR=8.26 LRA=8.66

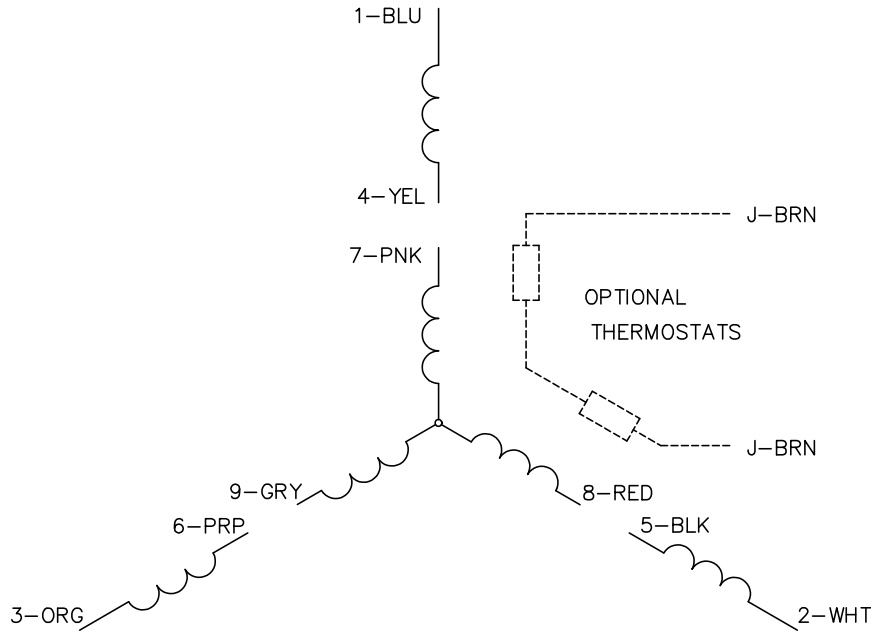


2/22/2024 ACPERF, record # 87730

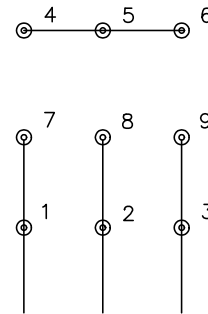




CD0005

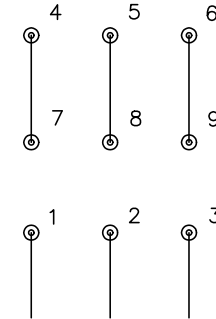


LOW VOLTAGE  
(2Y)



LINE

HIGH VOLTAGE  
(1Y)



LINE

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			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS