ABB BALDOR RELIANCE

Customer information packet

VFSWDM3543-E

.75HP, 1170RPM, 3PH, 60HZ, 56C, 3530M, TENV, F1
Class - None
Division - Not Applicable

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/5/2026 4:19:43 PM

Specifications

Enclosure	TENV
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	.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
Agency Approvals	CSA
	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	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	D
Type	AC
Mech. spec.	35E4656
Base	
Status	PRD/A
Elec. spec.	35WGG335
Layout	35LYE4656
Eff. date	09-09-2026
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

Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP4427ALA01												
CAT #	VFSWDM3543-E			**WT**	45	**LBS**						
SPEC	35E4656G335G1			**ENCL**	TENV							
SER #				**CC**	010A	**IP**	69					
HP	.75			**MAG CUR**	1.6-1.8/.9							
VOLTS	208-230/460					**NEMA NOM. EFF**	82.5					
AMPS	2.8-2.7/1.35					**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**	3-2.9/1.45		**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**	0.217	**CT**	15	**TO**	60		4:1				
ID LOGO	**SL HZ**	1.5	**VT**	3	**TO**	60		20:1				
									QR			
YR												

AC Induction Motor Performance Data
Record # 87730
Preliminary Data Sheet

Winding: 35WGG335-R001	**Type:** 3530M	**Enclosure:** TENV

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
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. @ 25ºC**	22.1 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	70°C
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-ft²

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

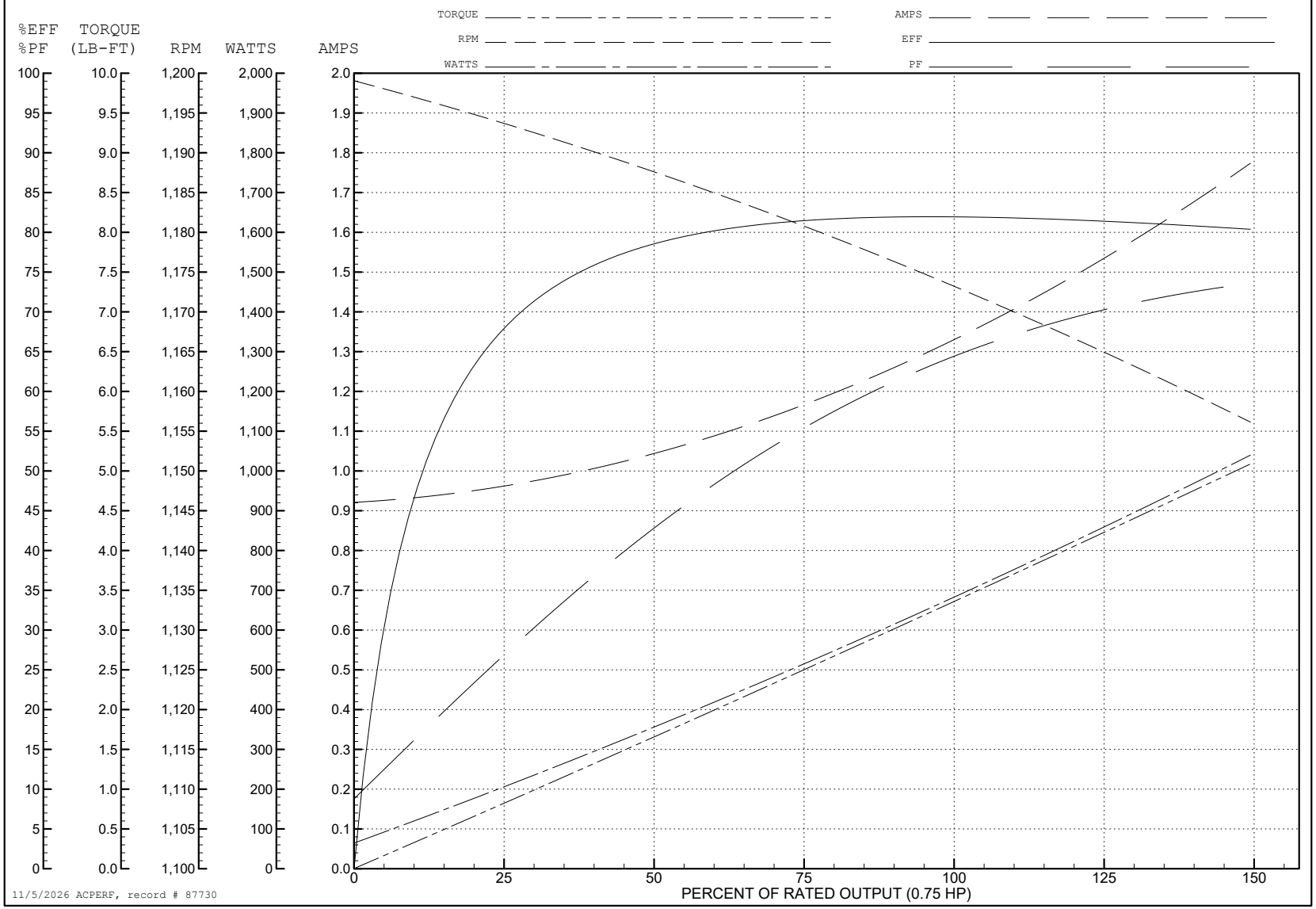
ABB Motors and Mechanical Inc.

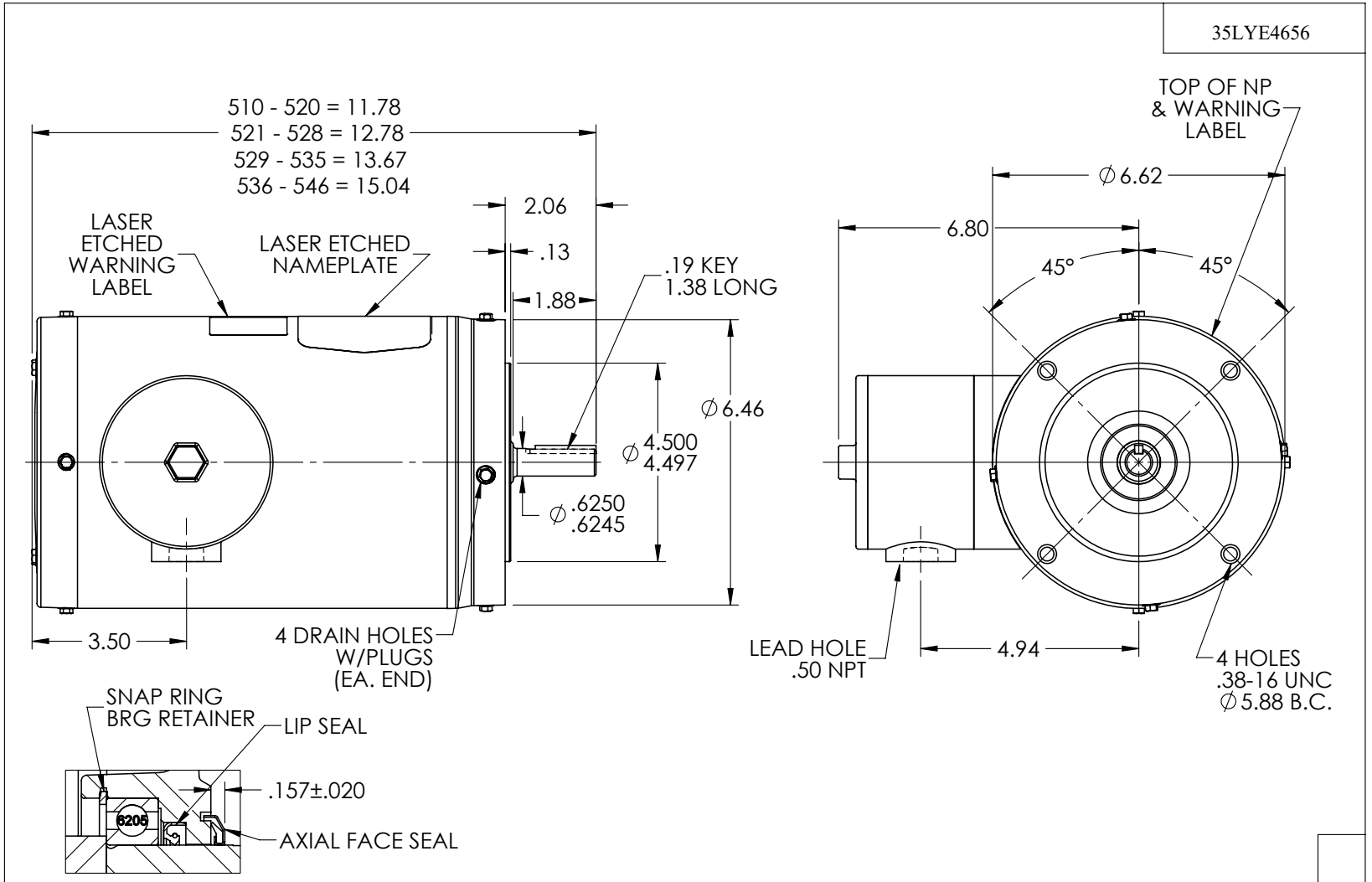
WINDING # 35WGG335

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

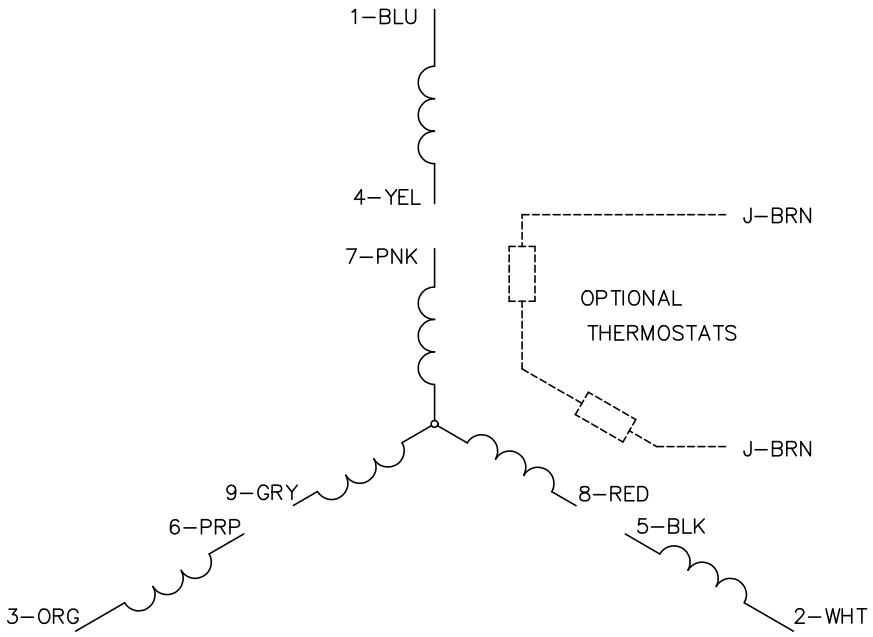
Typical performance - not guaranteed values.

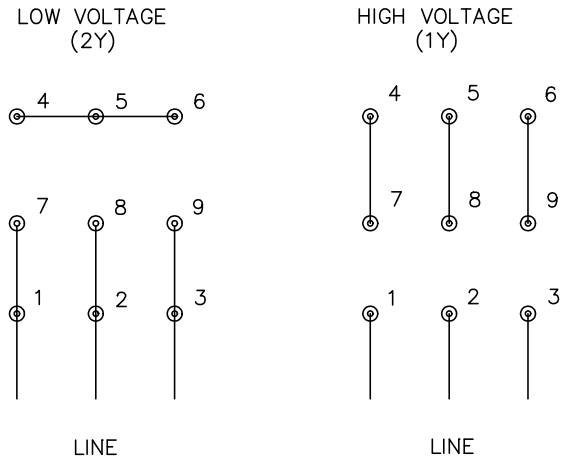
TORQUES(LB-FT): PO=13.03 PU=7.09 LR=8.26 LRA=8.66




35LYE4656
510 - 520 = 11.78
521 - 528 = 12.78
529 - 535 = 13.67
536 - 546 = 15.04
2.06
.13
1.88
LASER ETCHED WARNING LABEL
LASER ETCHED NAMEPLATE
.19 KEY 1.38 LONG
∅6.46
∅4.500 4.497
∅.6250 .6245
3.50
4 DRAIN HOLES W/PLUGS (EA. END)
TOP OF NP & WARNING LABEL
∅6.62
6.80
45°
45°
LEAD HOLE .50 NPT
4.94
4 HOLES .38-16 UNC ∅5.88 B.C.
SNAP RING BRG RETAINER
LIP SEAL
.157±.020
6206
AXIAL FACE SEAL
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD DIM TO AXIAL SEAL LOCATION
REV: D
VERSION: 04
REVISED: 11:10:20 07/23/2026
TDR: 000001276312
BALDOR
35LYE4656
MODEL NO. 35LYE4656
REF: -
BY: USALMAZ
STD VER 56C TENV 35M WD11/12
35LYE4656

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