ABB BALDOR RELIANCE

Customer information packet

VFSWDM3537-E

.5HP, 3500RPM, 3PH, 60HZ, 56C, 3516M, 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 8:58:53 AM

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	.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ 208.0 V @ 60 HZ
Agency Approvals	CSA UR
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	1.500 A @ 208.0 V 1.400 A @ 230.0 V .700 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	84.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	N
Type	AC
Mech. spec.	35E4656
Base	
Status	PRD/A
Elec. spec.	35WGP069
Layout	35LYE4656
Eff. date	09-09-2026
CD Diagram	CD0005
Poles	02
Leads	9#18 15" lead length,0#0 dbl dip & bake,0#0 phase insulaY
Proprietary	False
Created date	06-21-2017

Heater Indicator	No Heater
High Voltage Full Load Amps	0.7 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	N
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Finish	UNPAINTED
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	@ 0 AWG
	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3516M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	11.78 IN
Power Factor	84
Product Family	WD All SS Encapsulated
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No 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

NP4427ALA01												
CAT #	VFSWDM3537-E			**WT**	35	**LBS**						
SPEC	35E4656P069G1			**ENCL**	TENV							
SER #				**CC**	010A	**IP**	69					
HP	.5		**MAG CUR**	.8/.4								
VOLTS	208-230/460					**NEMA NOM. EFF**	84					
AMPS	1.5-1.4/.7					**PF**	84					
RATING	40C AMB-CONT											
RPM	3500				**MAX RPM**	5400						
FRAME	56C	**HZ**	60	**CODE**	N	**CLASS**	H					
SER.F.	1.15	**SF AMP**				**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**	0.036	**CT**	15	**TO**	60	4:1					
ID LOGO	**SL HZ**	1.7	**VT**	3	**TO**	60	20:1					
										QR		
YR												

AC Induction Motor Performance Data
Record # 63631
Typical performance - not guaranteed values

Winding: 35WGP069-R009	**Type:** 3516M	**Enclosure:** TENV

Nameplate Data			**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)		.5	**Full Load Torque**	0.753 LB-FT
Volts		208-230/460	**Start Configuration**	direct on line
Full Load Amps		1.5-1.4/.7	**Breakdown Torque**	4.09 LB-FT
R.P.M.		3500	**Pull-up Torque**	2.2 LB-FT
Hz	60 **Phase**	3	**Locked-rotor Torque**	2.47 LB-FT
NEMA Design Code	B **KVA Code**	N	**Starting Current**	6.97 A
Service Factor (S.F.)		1.15	**No-load Current**	0.394 A
NEMA Nom. Eff.	84 **Power Factor**	84	**Line-line Res. @ 25ºC**	25.2 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	63°C
S.F. Amps			**Temp. Rise @ S.F. Load**	72°C
			Locked-rotor Power Factor	54.7
			Rotor inertia	0.0443 LB-FT2

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	50	65	74	81	84	87	83
Efficiency	49.5	65	71.2	75	76.3	76.7	75.8
Speed	3568	3541	3517	3492	3464	3436	3475
Line amperes	0.453	0.545	0.65	0.774	0.904	1.05	0.852

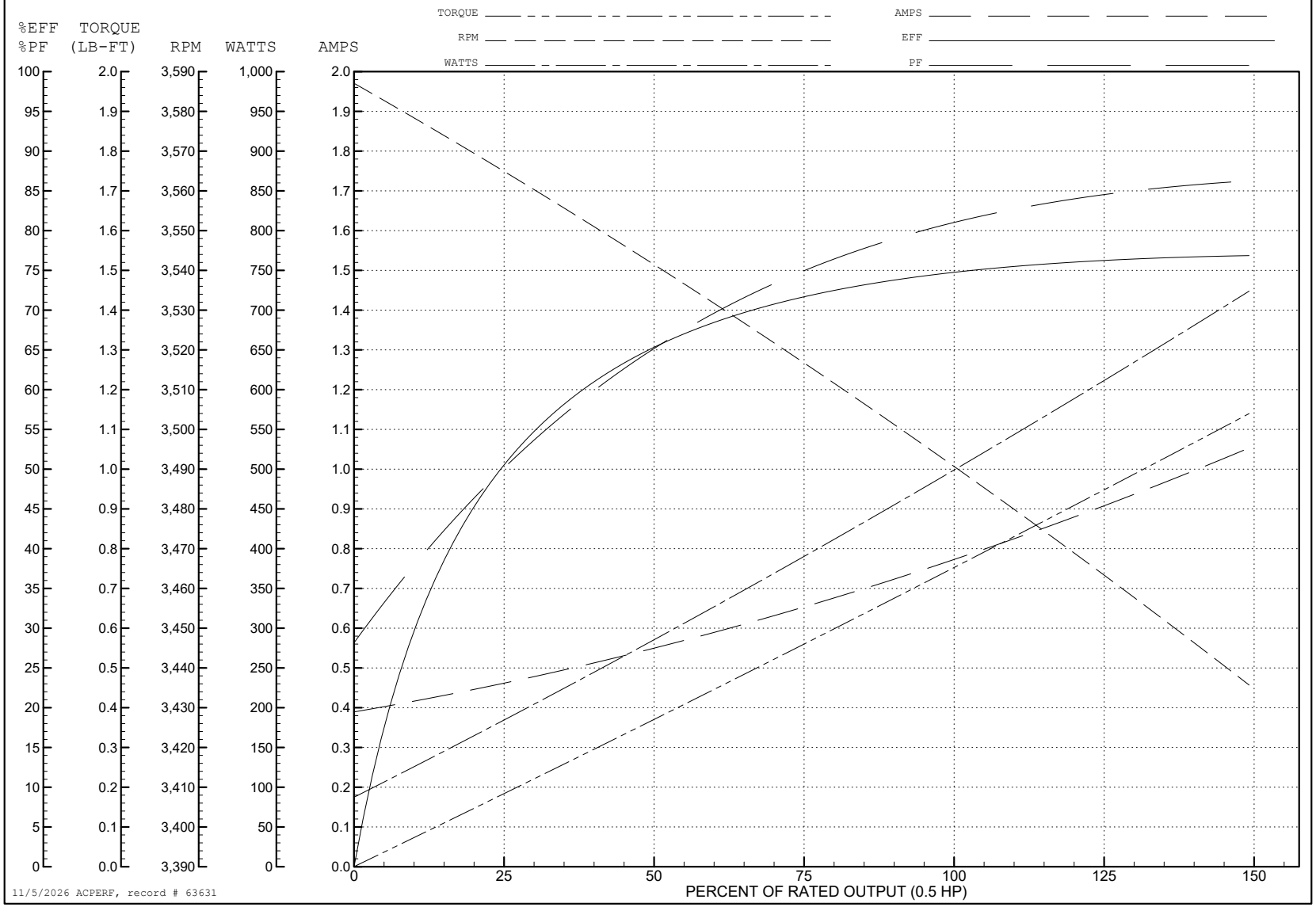
ABB Motors and Mechanical Inc.

WINDING # 35WGP069

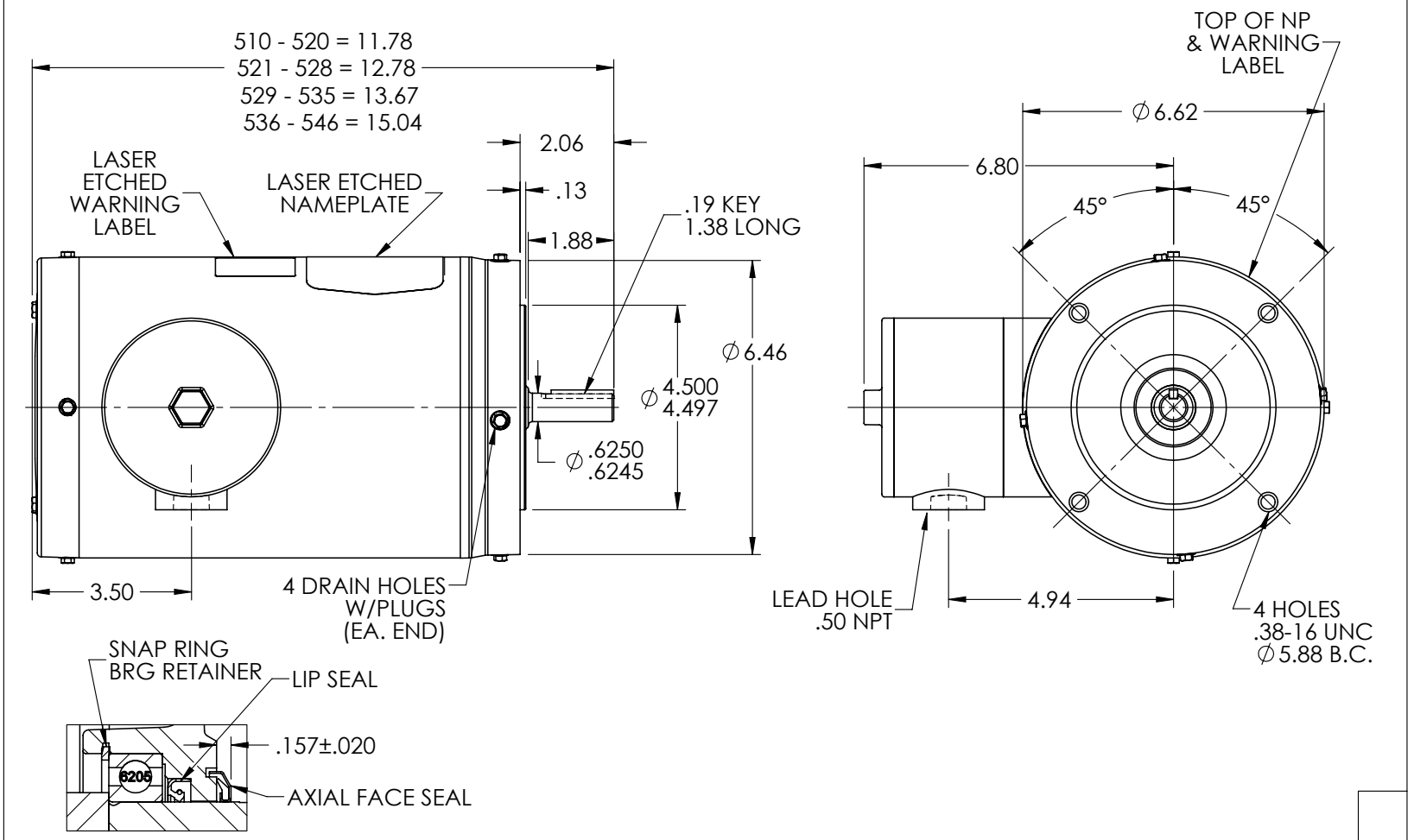
0.5 HP 3 PH 60 HZ 3500 RPM 460 V 3516M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=4.09 PU=2.2 LR=2.47 LRA=6.97



35LYE4656



PULLEY END DETAIL

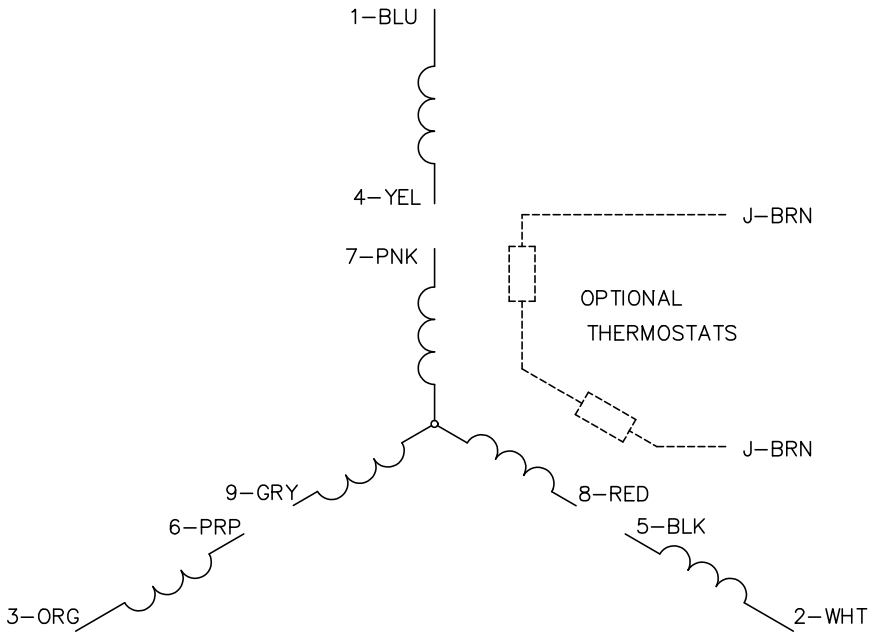
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

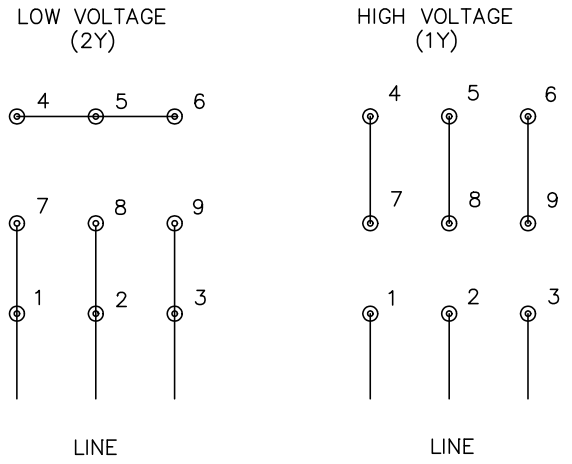
REV. DESC: ADD DIM TO AXIAL SEAL LOCATION			
REV: D	VERSION: 04	REVISED: 11:10:20 07/23/2026	TDR: 000001276312
35LYE4656	MODEL NO. 35LYE4656		REF: -
	BY: USALMAZ		STD VER 56C TENV 35M WD11/12

BALDOR

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