



Customer information packet

VFSWDM3537-E

.5HP, 3500RPM, 3PH, 60HZ, 56C, 3516M, TENV, F1

Class - None

Division - Not Applicable

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
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	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	M
Type	AC
Mech. spec.	35E4656
Base	
Status	PRD/A
Elec. spec.	35WGP069
Layout	35LYE4656
Eff. date	08-14-2023
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

NP4427AAA01											
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. @ 25°C	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-FT ²			

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

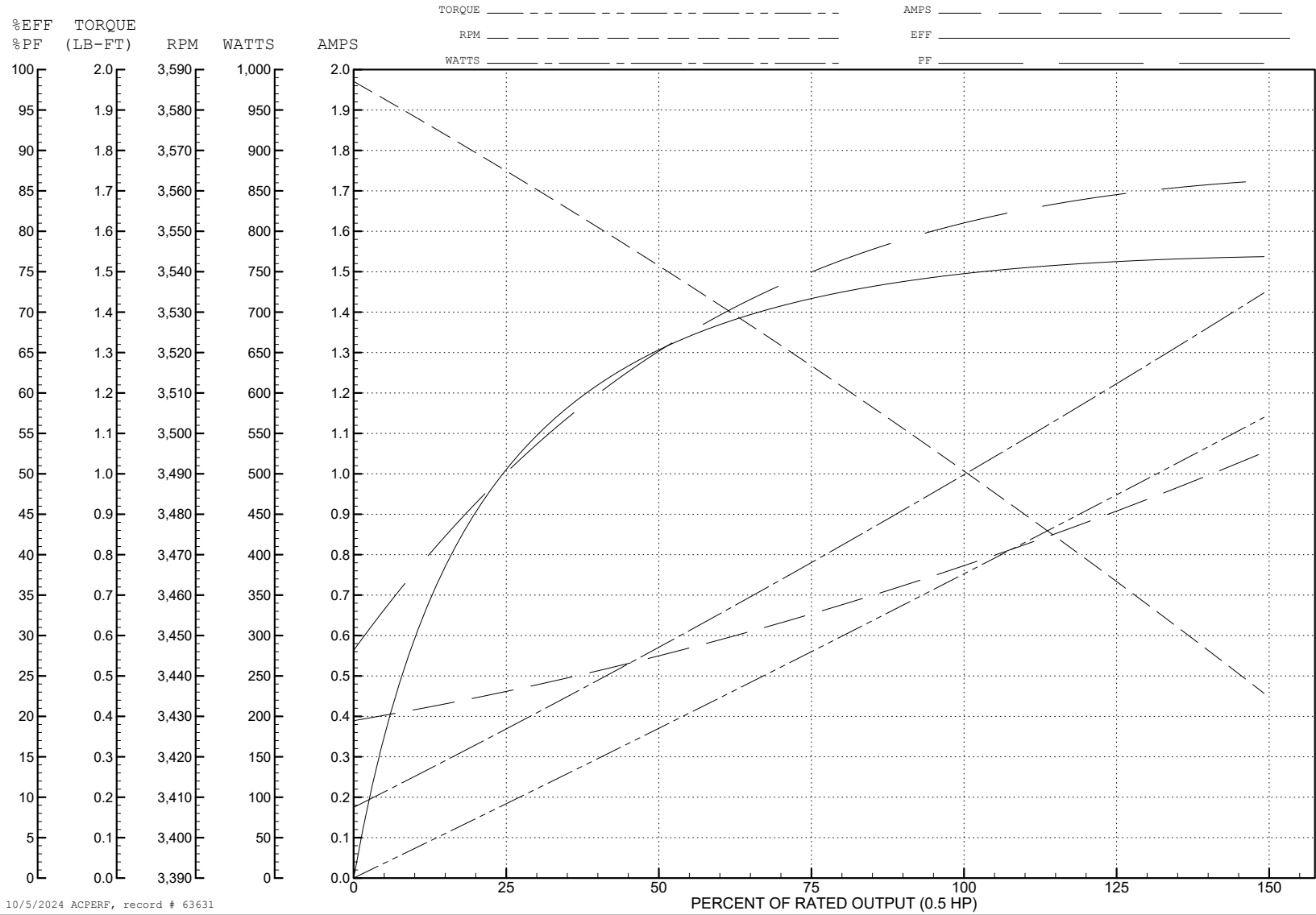
ABB Motors and Mechanical Inc.

WINDING # 35WGP069

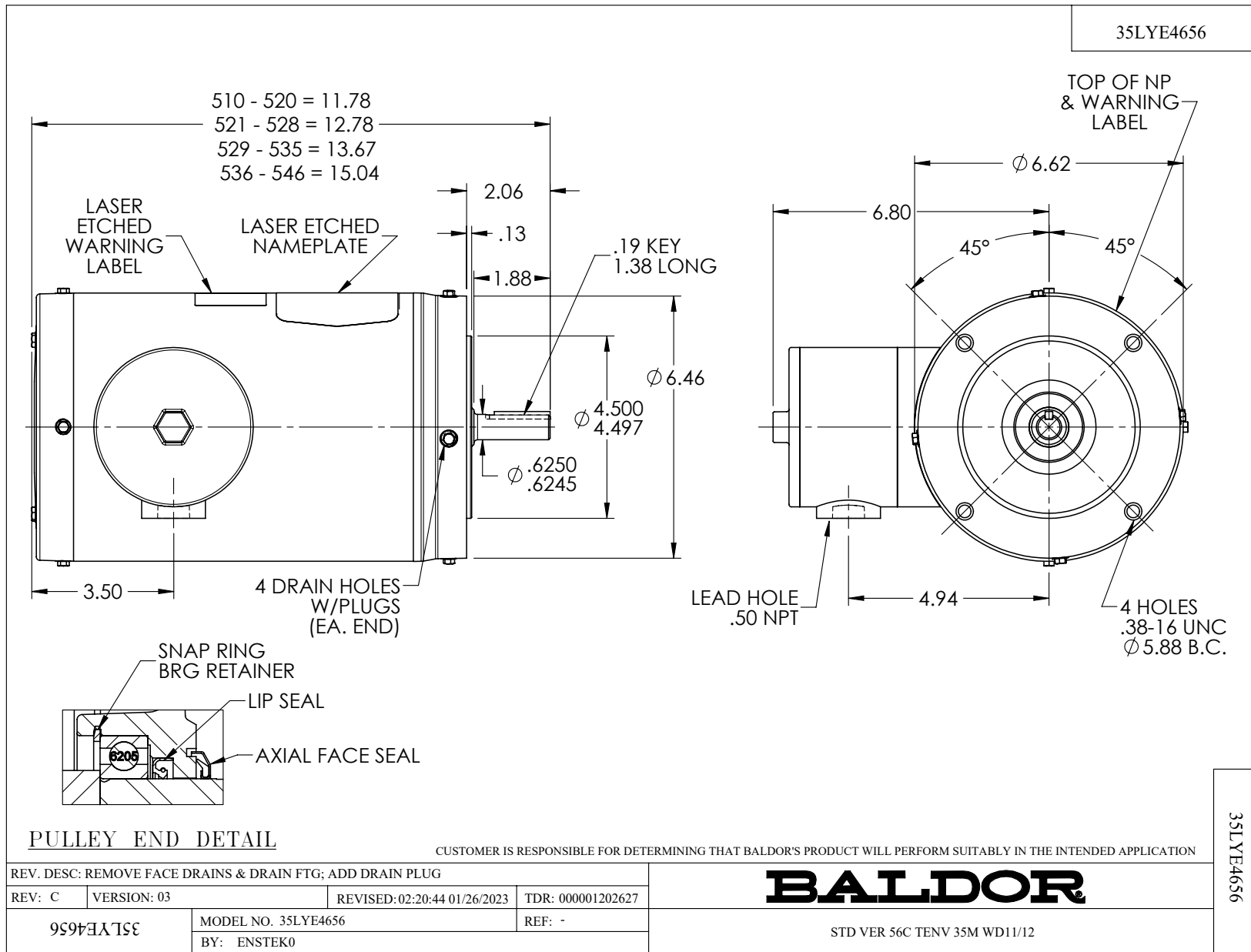
0.5 HP 3 PH 60 HZ 3500 RPM 460 V 3516M

Typical performance - not guaranteed values.

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



10/5/2024 ACPERF, record # 63631



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