

ABB BALDOR RELIANCE III

Customer information packet

VFSWDM3542-5E

.75HP, 1765RPM, 3PH, 60HZ, 56C, 3514M, 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	.750 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CSA WEEE NEMA_PREMIUM NEMA PREMIUM CURUSEEV
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	.930 A @ 575.0 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
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	0.9 a

Part Detail

Revision	B
Type	AC
Mech. spec.	35E4656
Base	
Status	PRD/A
Elec. spec.	35WGZ949
Layout	35LYE4656
Eff. date	08-14-2023
CD Diagram	CD0006
Poles	04
Leads	3#18
Proprietary	False
Created date	03-11-2022

Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Finish	UNPAINTED
Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3514M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.78 IN
Power Factor	73
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	1765 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

NP4427AAA02															
CAT #	VFSWDM3542-5E					LBS									
SPEC	35E4656Z949G1					ENCL		TENV							
SER #						CC		010A		IP		69			
HP	.75			MAG CUR			.59								
VOLTS	575					NEMA NOM. EFF					82.5				
AMPS	.93							PF		73					
RATING	40C AMB-CONT														
RPM	1765					MAX RPM			2700						
FRAME	56C		HZ		60		CODE		K		CLASS		H		
SER.F.	1.15		SF AMP		1.02		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		0.101		CT		15		TO		60		4:1		
ID LOGO	SL HZ		1.2		VT		3		TO		60		20:1		

AC Induction Motor Performance Data

Record # 91700

Typical performance - not guaranteed values

Winding: 35WGZ949-R001				Type: 3514M		Enclosure: TENV	
Nameplate Data				575 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		.75		Full Load Torque		2.25 LB-FT	
Volts		575		Start Configuration		direct on line	
Full Load Amps		.93		Breakdown Torque		7.36 LB-FT	
R.P.M.		1765		Pull-up Torque		4.05 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		4.68 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		6.16 A
Service Factor (S.F.)		1.15		No-load Current		0.589 A	
NEMA Nom. Eff.		82.5	Power Factor	73	Line-line Res. @ 25°C		49.2 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		56°C	
S.F. Amps		1.02		Temp. Rise @ S.F. Load		66°C	
				Locked-rotor Power Factor		65.9828	
				Rotor inertia		0.101 lb-ft²	

Load Characteristics 575 V, 60 Hz, 0.75 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	34	52	65	74	80	83	78
Efficiency	71.1	80.8	83.1	83.6	82.8	81	83.1
Speed	1790	1782	1773	1763	1753	1740	1757
Line amperes	0.61	0.682	0.782	0.913	1.07	1.26	1.01

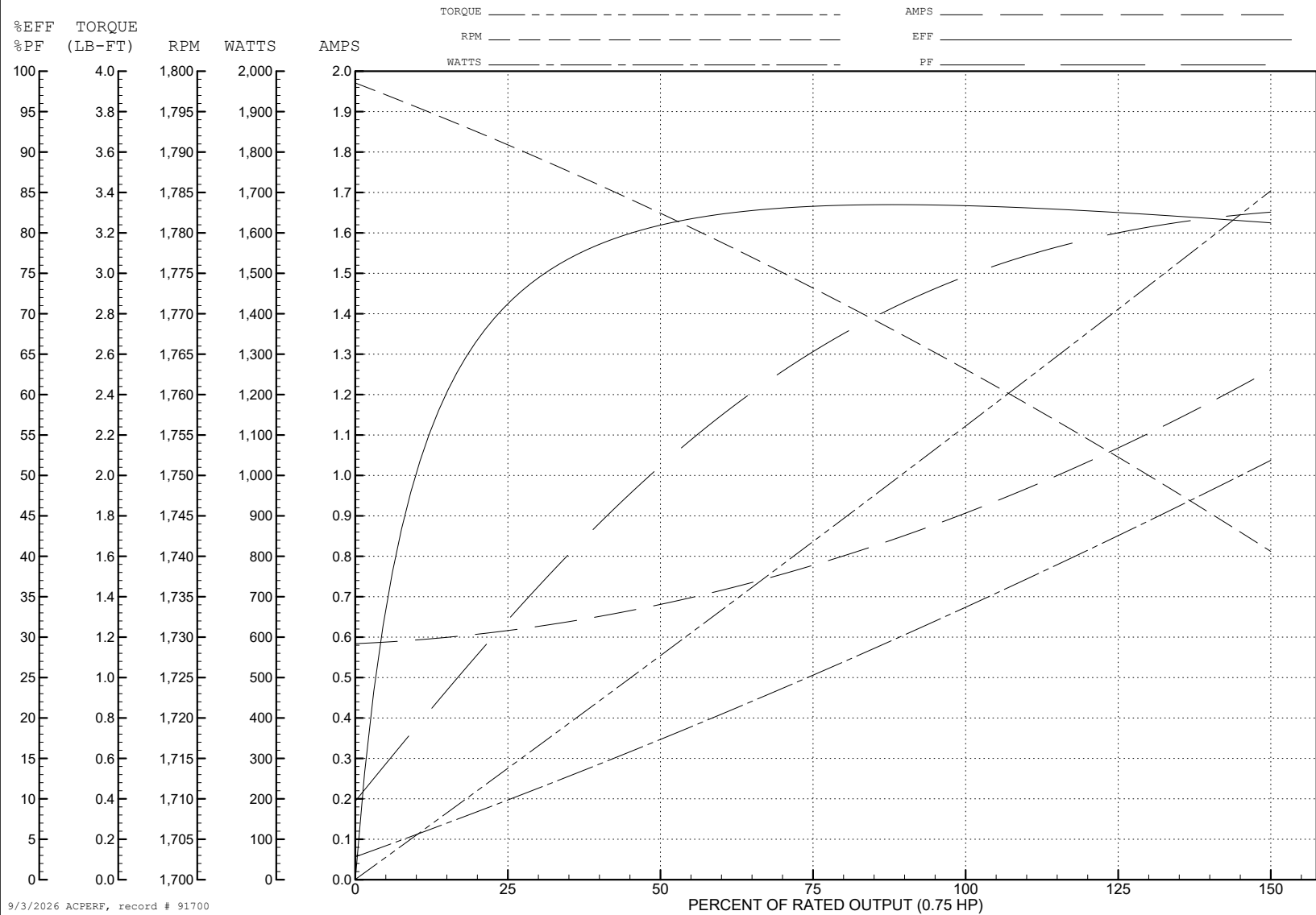
ABB Motors and Mechanical Inc.

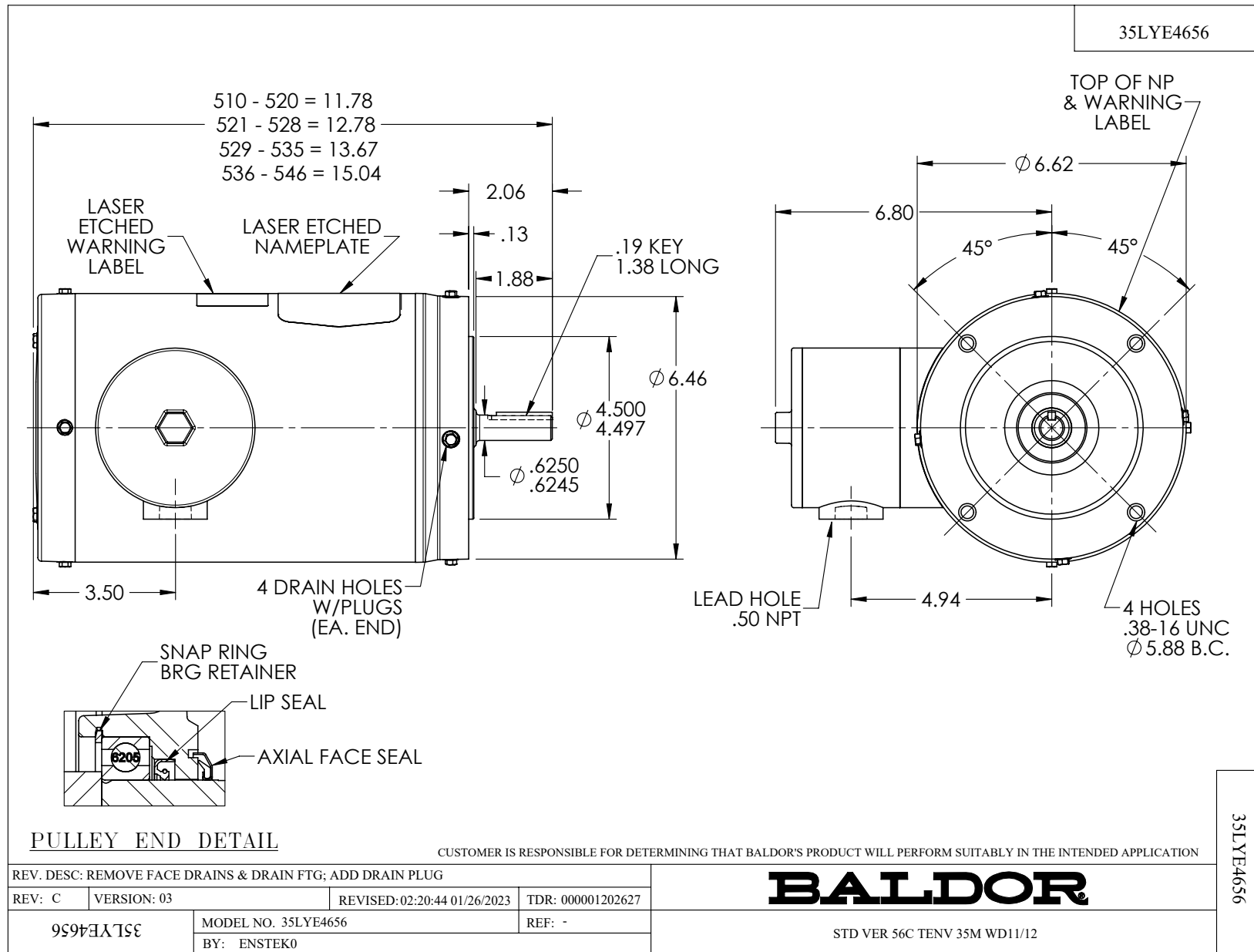
WINDING # 35WGZ949

Typical performance - not guaranteed values.

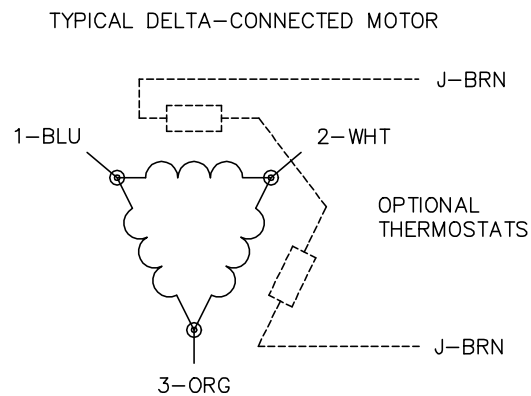
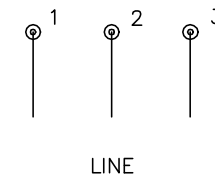
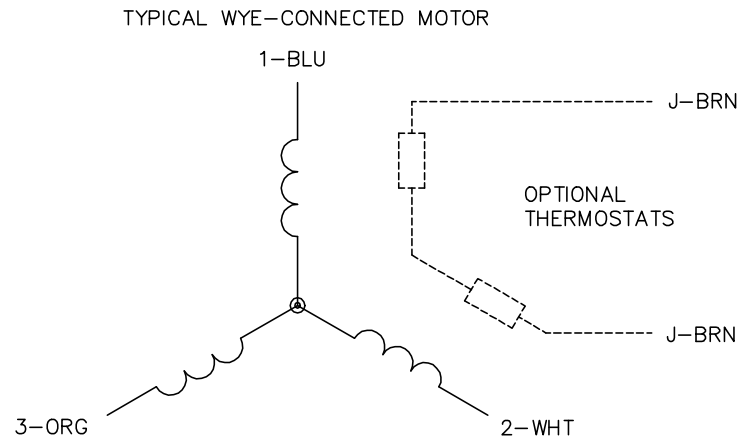
0.75 HP 3 PH 60 HZ 1765 RPM 575 V 3514M

TORQUES (LB-FT) : PO=7.36 PU=4.05 LR=4.68 LRA=6.16





CD0006


NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007

REV. LTR: E

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\141

REVISED: 10: 24: 49 02/19/2019

BY: ENBRIRO

MTL: —


BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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