ABB BALDOR RELIANCE

Customer information packet

VFWDM3538

.5HP, 1775RPM, 3PH, 60HZ, 56C, 3514M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	56C
Frame Material	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	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	C UR US
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	1.010 A @ 460.0 V
	2.020 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	81.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.0 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	C
Type	AC
Mech. spec.	35H815
Base	
Status	PRD/A
Elec. spec.	35WGG069
Layout	35LYH815
Eff. date	09-17-2026
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	09-15-2023

KVA Code	N
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3514M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.22 IN
Power Factor	63
Product Family	Wash Down
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.25
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1775 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

NP1496L											
CAT.NO.	VFWDM3538										
SPEC.	35H815G069G2										
HP	.5										
VOLTS	208-230/460										
AMP	2/1										
RPM	1775										
FRAME	56C		**HZ**	60			**PH**	3			
SER.F.	1.25	**CODE**	N	**DES**	B	**CLASS**	F				
NEMA-NOM-EFF	77.3	**PF**	63								
RATING	40C AMB-CONT										
CC											
DE	6205		**ODE**	6203							
ENCL	TEFC	**SN**									
	SFA 2.2/1.1										

AC Induction Motor Performance Data
Record # 101707
Typical performance - not guaranteed values

Winding: 35WGG069-R098	**Type:** 3514M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			.5
Volts			208-230/460
Full Load Amps			2/1
R.P.M.			1775
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	N
Service Factor (S.F.)			1.25
NEMA Nom. Eff.	77.3	**Power Factor**	63
Rating - Duty			40C AMB-CONT
S.F. Amps			2.2/1.1

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	1.48 LB-FT
Start Configuration	direct on line
Breakdown Torque	8 LB-FT
Pull-up Torque	4.4 LB-FT
Locked-rotor Torque	5.1 LB-FT
Starting Current	8.4 A
No-load Current	0.85 A
Line-line Res. @ 25ºC	30.3 Ω
Temp. Rise @ Rated Load	19°C
Temp. Rise @ S.F. Load	21°C
Locked-rotor Power Factor	66.8
Rotor inertia	0.101 lb-ft²

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	24	37	48	58	65	71	65
Efficiency	58.9	72.5	78.4	80.5	81.6	81.5	81.6
Speed	1793	1788	1782	1776	1771	1763	1771
Line amperes	0.85	0.89	0.94	1.01	1.11	1.21	1.11

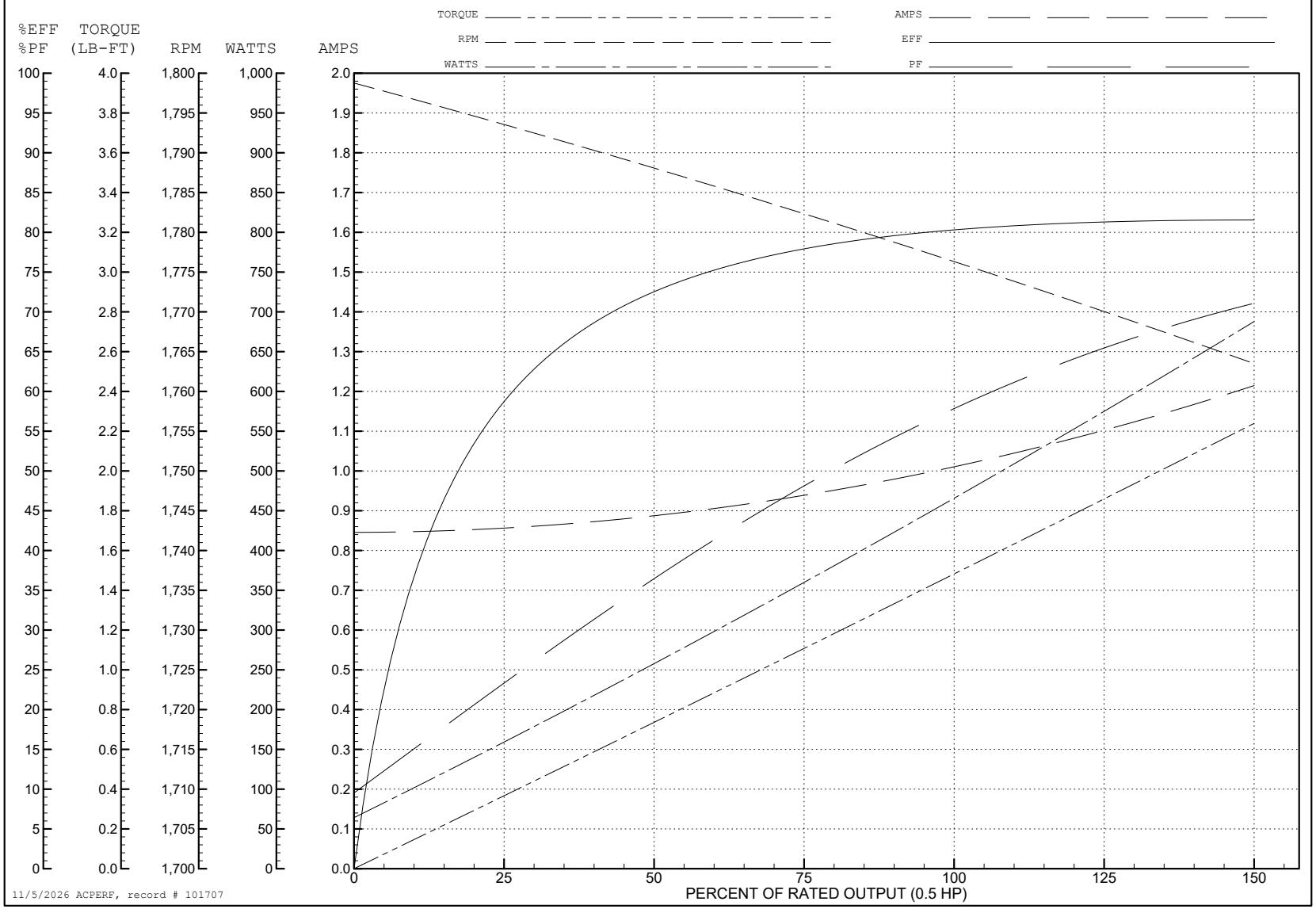
ABB Motors and Mechanical Inc.

WINDING # 35WGG069

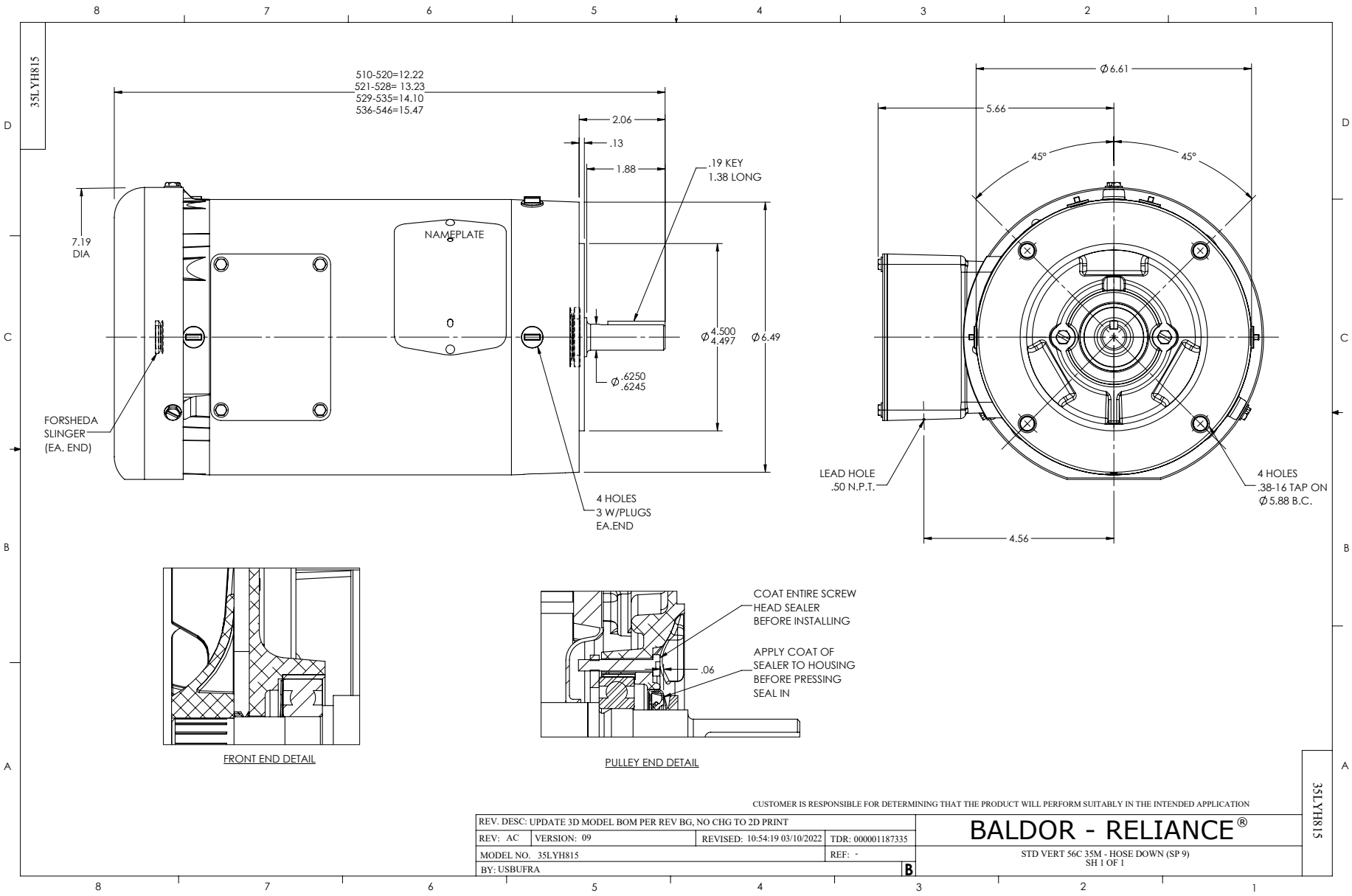
0.5 HP 3 PH 60 HZ 1775 RPM 460 V 3514M

Typical performance - not guaranteed values.

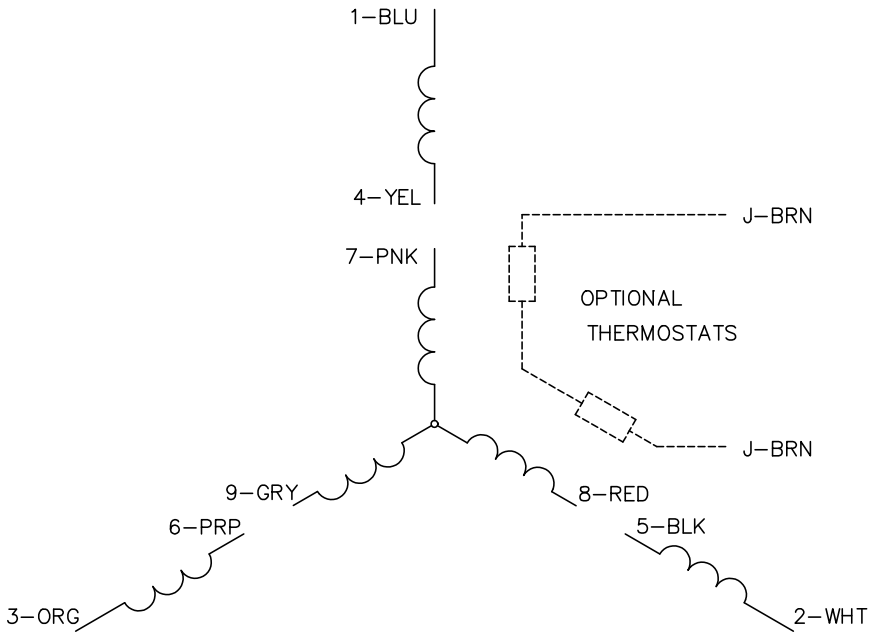
TORQUES(LB-FT): PO=8 PU=4.4 LR=5.1 LRA=8.4

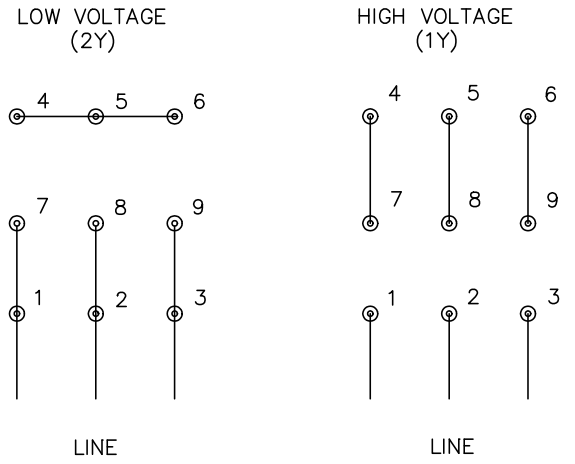


11/5/2026 ACPERF, record # 101707


35LYH815
510-520=12.22
521-528= 13.23
529-535=14.10
536-546=15.47
2.06
.13
1.88
.19 KEY
1.38 LONG
7.19
DIA
NAMEPLATE
Ø4.500
4.497
Ø6.49
Ø.6250
.6245
FORSHEDA
SLINGER
(EA. END)
4 HOLES
3 W/PLUGS
EA.END
Ø6.61
5.66
45°
45°
LEAD HOLE
.50 N.P.T.
4 HOLES
.38-16 TAP ON
Ø5.88 B.C.
4.56
FRONT END DETAIL
COAT ENTIRE SCREW
HEAD SEALER
BEFORE INSTALLING
APPLY COAT OF
SEALER TO HOUSING
BEFORE PRESSING
SEAL IN
.06
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE 3D MODEL BOM PER REV BG, NO CHG TO 2D PRINT
REV: AC
VERSION: 09
REVISED: 10:54:19 03/10/2022
TDR: 000001187335
MODEL NO. 35LYH815
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
STD VERT 56C 35M - HOSE DOWN (SP 9)
SH 1 OF 1
35LYH815

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