ABB BALDOR RELIANCE

Customer information packet

VBM3154

1.5HP, 1735RPM, 3PH, 60HZ, 56C, 3518M, OPEN, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPEN
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	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ
	230.0 V @ 60 HZ
	460.0 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	5.200 A @ 230.0 V
	5.000 A @ 208.0 V
	2.600 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	80.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	D
Type	AC
Mech. spec.	35E056
Base	
Status	PRD/A
Elec. spec.	35WGZ926
Layout	35LYE056
Eff. date	01-05-2026
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	03-11-2022

High Voltage Full Load Amps	2.6 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	L
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	3518M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.26 IN
Power Factor	66
Product Family	General Purpose
Pulley End Bearing Type	Ball
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	1735 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

NP1256L									
CAT.NO.	VBM3154								
SPEC.	35E056Z926G1								
HP	1.5								
VOLTS	208-230/460								
AMP	5-5.2/2.6								
RPM	1735								
FRAME	56C		**HZ**	60			**PH**	3	
SER.F.	1.15	**CODE**	L	**DES**	B	**CLASS**		F	
NEMA-NOM-EFF	80	**PF**	66						
RATING	40C AMB-CONT								
CC									
DE	6205		**ODE**	6203					
ENCL	OPEN	**SN**							
	SFA 5.56-5.6/2.8								

AC Induction Motor Performance Data
Record # 88676
Typical performance - not guaranteed values

Winding: 35WGZ926-R001	**Type:** 3518M	**Enclosure:** OPEN

Nameplate Data			
Rated Output (HP)			1.5
Volts			208-230/460
Full Load Amps			5-5.2/2.6
R.P.M.			1735
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	L
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	80	**Power Factor**	66
Rating - Duty			40C AMB-CONT
S.F. Amps			5.56-5.6/2.8

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	4.54 LB-FT
Start Configuration	direct on line
Breakdown Torque	19.18 LB-FT
Pull-up Torque	15.17 LB-FT
Locked-rotor Torque	17.41 LB-FT
Starting Current	18.38 A
No-load Current	1.86 A
Line-line Res. @ 25ºC	12.8 Ω
Temp. Rise @ Rated Load	52°C
Temp. Rise @ S.F. Load	60°C
Locked-rotor Power Factor	71.8
Rotor inertia	0.13 lb-ft²

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	29	45	57	66	73	78	70
Efficiency	65	76.6	80.2	81.4	81	79.7	81.4
Speed	1783	1769	1752	1735	1717	1697	1733
Line amperes	1.9	2.06	2.29	2.6	2.96	3.39	2.8

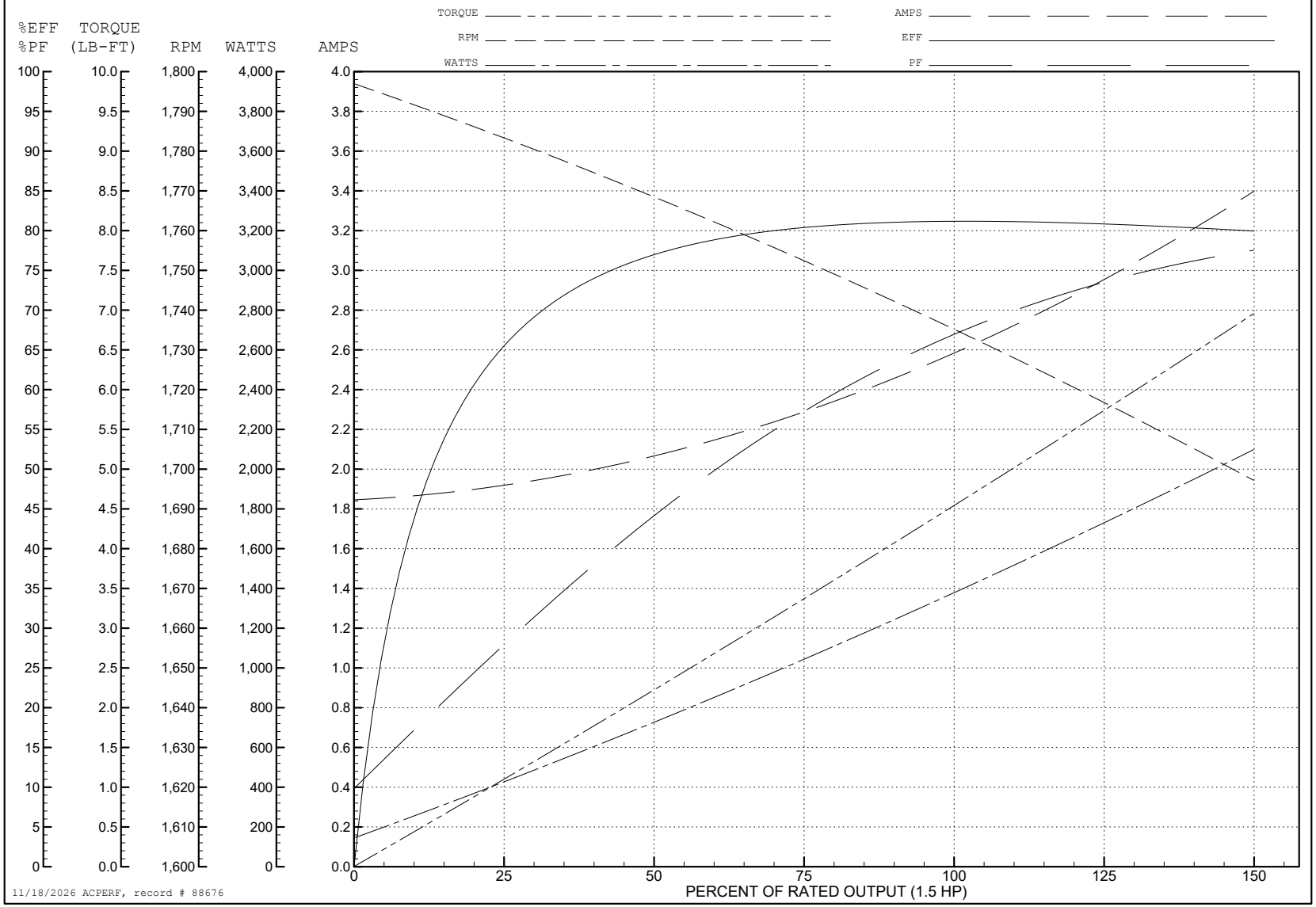
ABB Motors and Mechanical Inc.

WINDING # 35WGZ926

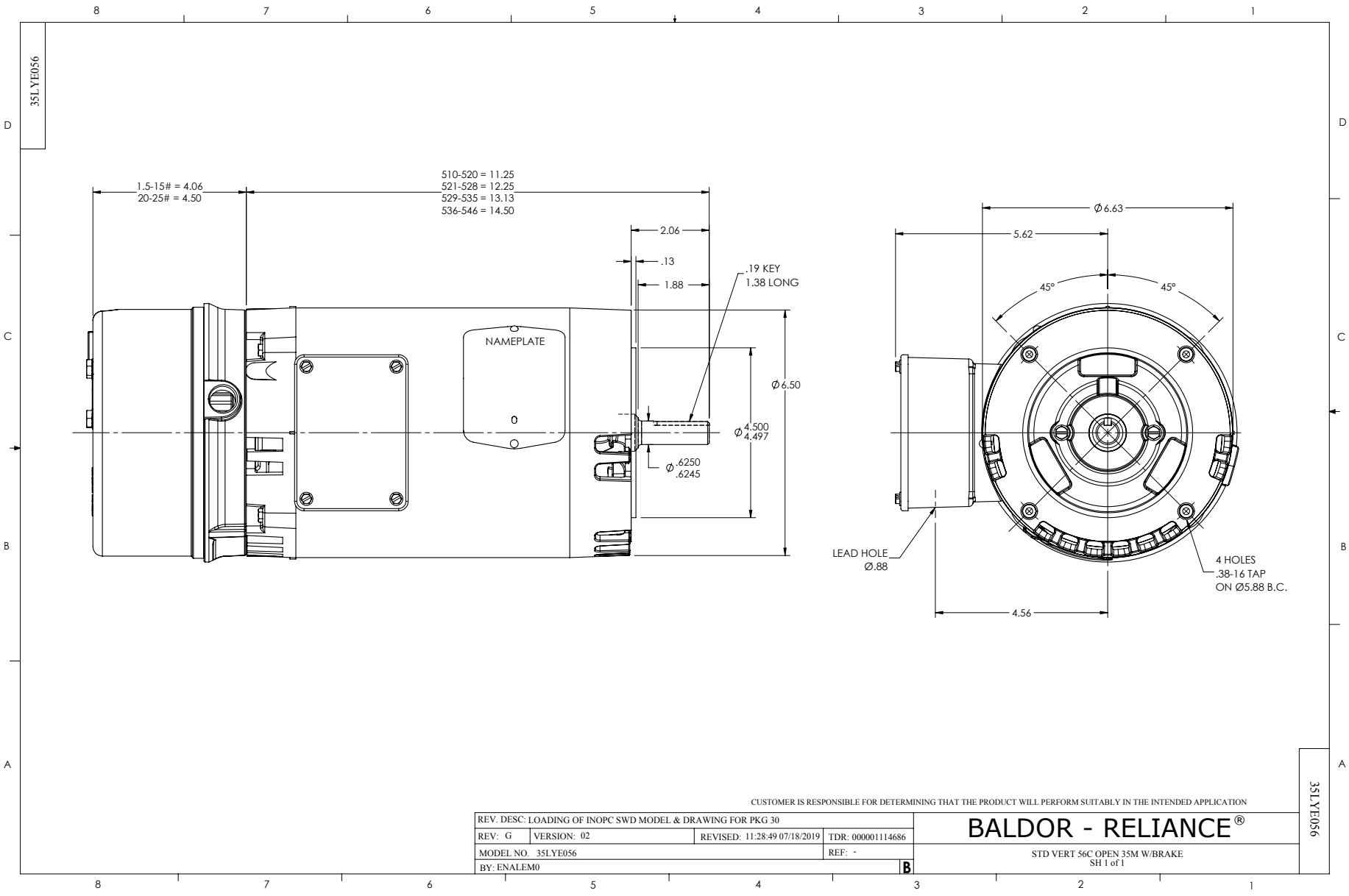
1.5 HP 3 PH 60 HZ 1735 RPM 460 V 3518M

Typical performance - not guaranteed values.

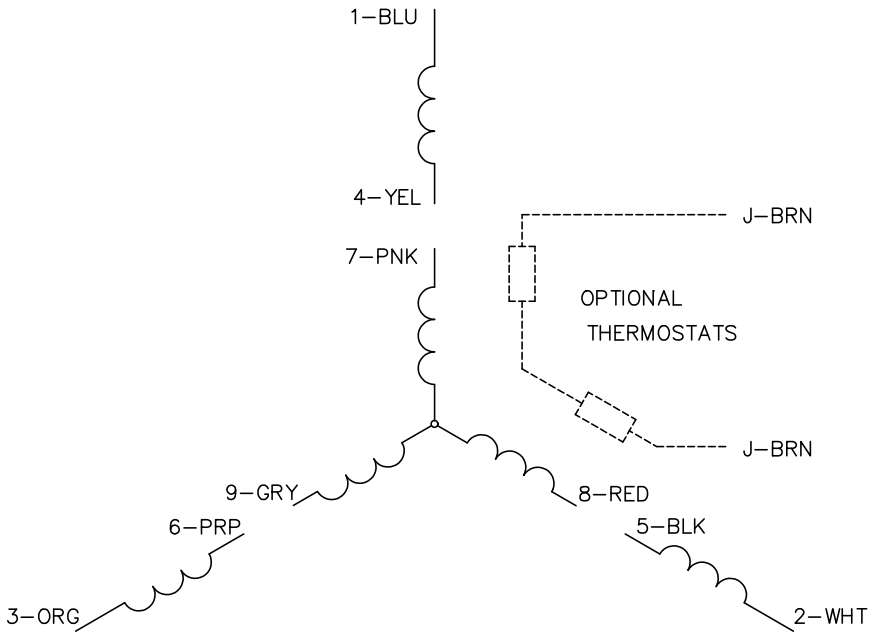
TORQUES(LB-FT): PO=19.18 PU=15.17 LR=17.41 LRA=18.38

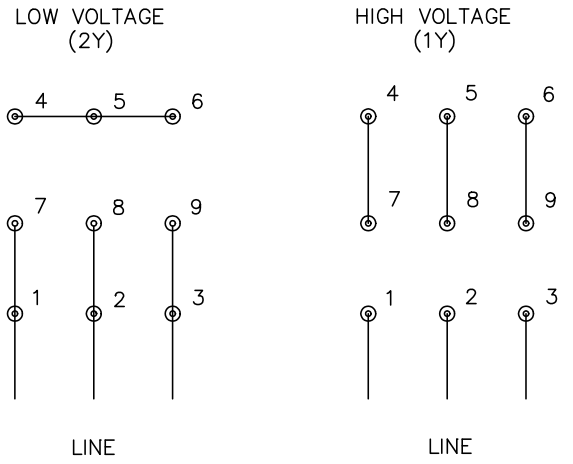


11/18/2026 ACPERF, record # 88676


35LYE056
1.5-15# = 4.06
20-25# = 4.50
510-520 = 11.25
521-528 = 12.25
529-535 = 13.13
536-546 = 14.50
2.06
.13
1.88
.19 KEY
1.38 LONG
NAMEPLATE
Ø6.50
Ø 4.500
4.497
Ø .6250
.6245
Ø6.63
5.62
45°
45°
LEAD HOLE
Ø.88
4 HOLES
.38-16 TAP
ON Ø5.88 B.C.
4.56
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOADING OF INOPC SWD MODEL & DRAWING FOR PKG 30
REV: G
VERSION: 02
REVISED: 11:28:49 07/18/2019
TDR: 000001114686
MODEL NO. 35LYE056
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD VERT 56C OPEN 35M W/BRAKE
SH 1 of 1
35LYE056

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