

BALDOR • RELIANCE

Customer information packet

VBM3154

1.5HP, 1735RPM, 3PH, 60HZ, 56C, 3518M, OPEN, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	56C
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ 208.0 V @ 60 HZ
XP Class and Group	None
XP Division	Not Applicable
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
Brake Torque	10.0 lb-ft
Current @ Voltage	5.400 A @ 208.0 V 5.000 A @ 230.0 V 2.500 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 Face Code	Brake Mounting

Part detail

Revision	F
Type	AC
Mech. spec.	35E056
Base	
Status	PRD/A
Elec. spec.	35WGP925
Layout	35LYE056
Eff. date	09-05-2017
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	07-14-2010

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.5 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
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	71
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 Extension Location	Pulley End
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.	35E056P925G1								
HP	1.5								
VOLTS	208-230/460								
AMP	5.4-5/2.5								
RPM	1735								
FRAME	56C		HZ	60		PH	3		
SER.F.	1.15	CODE	L	DES	B	CLASS	F		
NEMA-NOM-EFF	80	PF	71						
RATING	40C AMB-CONT								
CC		USABLE AT 208V							
DE	6205	ODE	6203						
ENCL	OPEN	SN							

AC Induction Motor Performance Data

Record # 61905

Typical performance - not guaranteed values

Winding: 35WGP925-R004		Type: 3518M		Enclosure: OPEN	
Nameplate Data			460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)	1.5	Full Load Torque	4.58 LB-FT		
Volts	208-230/460	Start Configuration	direct on line		
Full Load Amps	5.4-5/2.5	Breakdown Torque	17.48 LB-FT		
R.P.M.	1735	Pull-up Torque	9.83 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque	13.8 LB-FT
NEMA Design Code	B	KVA Code	L	Starting Current	15.84 A
Service Factor (S.F.)	1.15	No-load Current	1.76 A		
NEMA Nom. Eff.	80	Power Factor	71	Line-line Res. @ 25°C	12.7 Ω
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	41°C	
S.F. Amps			Temp. Rise @ S.F. Load	48°C	
			Locked-rotor Power Factor	69.6	
			Rotor inertia	0.106 LB-FT ²	

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	31	49	62	73	79	85	74
Efficiency	62.6	74.5	79	80.2	79.9	78.1	79.9
Speed	1784	1768	1751	1731	1711	1686	1725
Line amperes	1.79	1.92	2.13	2.43	2.77	3.19	2.71

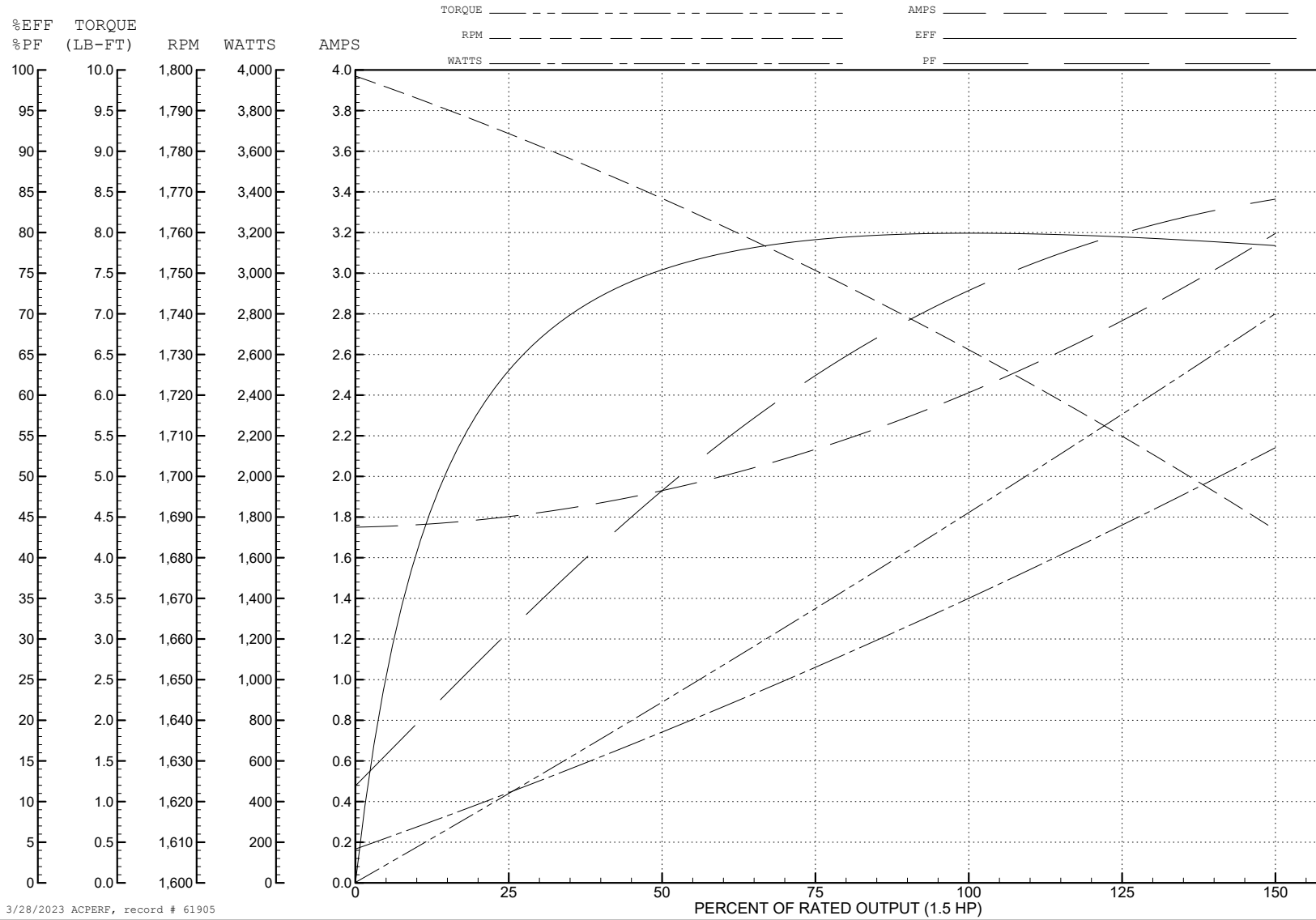
ABB Motors and Mechanical Inc.

WINDING # 35WGP925

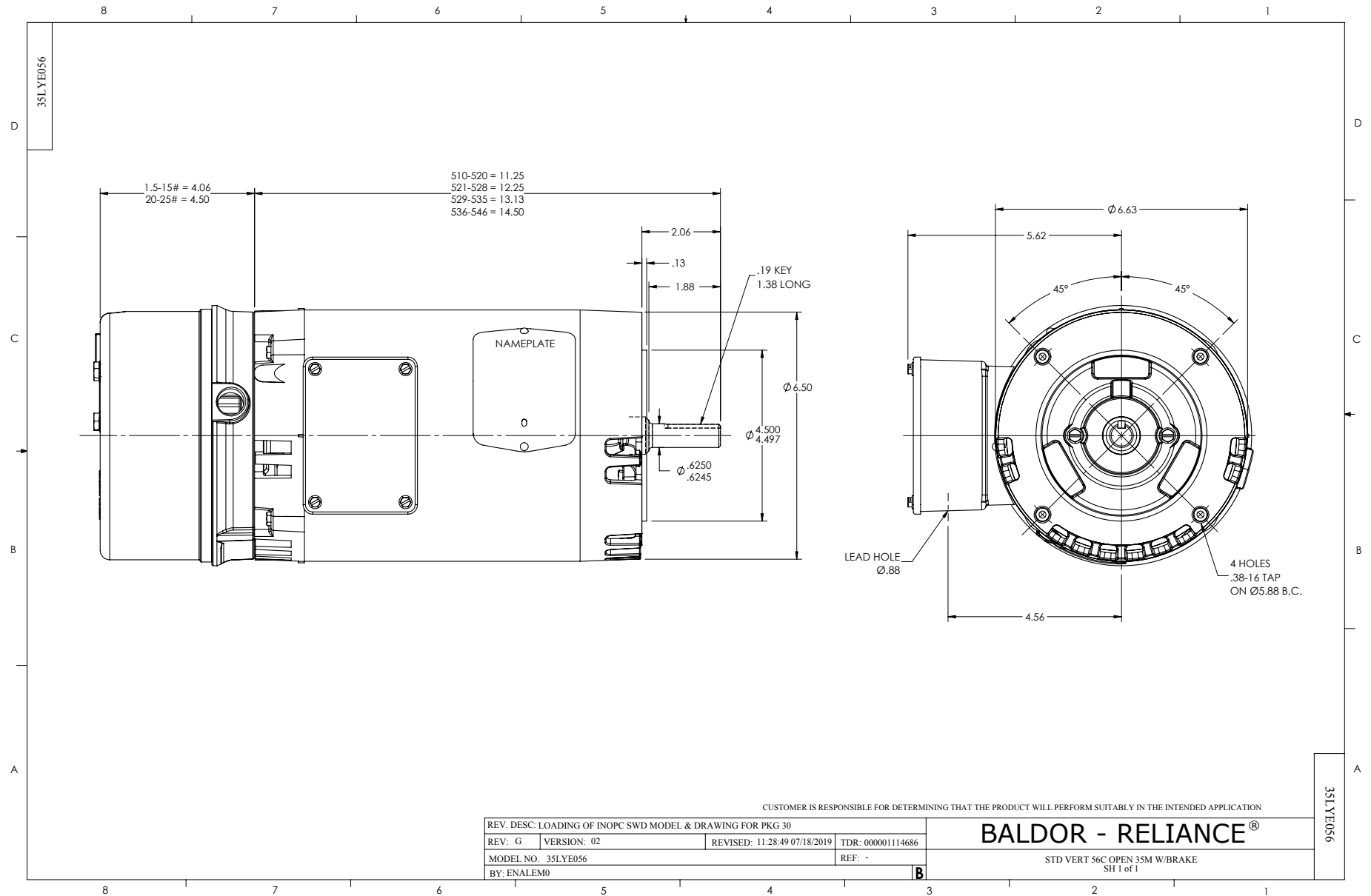
Typical performance - not guaranteed values.

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

TORQUES (LB-FT): PO=17.48 PU=9.83 LR=13.8 LRA=15.84



3/28/2023 ACPERF, record # 61905



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