

BALDOR® • RELIANCE 

Product Information Packet

VEM3156T

1HP,1155RPM,3PH,60HZ,145TC,3524M,ODP,F1

Part Detail							
Revision:	F	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	35WGM850	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	35Z413	Layout:	35LYZ413	Poles:	06	Created Date:	04-24-2015
Base:	N	Eff. Date:	01-30-2018	Leads:	9#18		

Specs			
Catalog Number:	VEM3156T	Heater Indicator:	No Heater
Enclosure:	ODP	Insulation Class:	F
Frame:	145TC	Inverter Code:	Inverter Ready
Frame Material:	Steel	KVA Code:	J
Output @ Frequency:	1.000 HP @ 60 HZ	Lifting Lugs:	No Lifting Lugs
Synchronous Speed @ Frequency:	1200 RPM @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 18 AWG
	230.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
XP Class and Group:	None	Motor Lead Termination:	Flying Leads
XP Division:	Not Applicable	Motor Type:	3524M
Agency Approvals:	UR	Mounting Arrangement:	F1
	CSA EEV	Power Factor:	64
	CSA	Product Family:	General Purpose
Auxillary Box:	No Auxillary Box	Pulley End Bearing Type:	Ball
Auxillary Box Lead Termination:	None	Pulley Face Code:	C-Face
Base Indicator:	No Mounting	Pulley Shaft Indicator:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	None
Blower:	None	Shaft Extension Location:	Pulley End

Current @ Voltage:	1.800 A @ 460.0 V	Shaft Ground Indicator:	No Shaft Grounding
	3.600 A @ 208.0 V	Shaft Rotation:	Reversible
	3.600 A @ 230.0 V	Shaft Slinger Indicator:	No Slinger
Design Code:	B	Speed Code:	Single Speed
Drip Cover:	No Drip Cover	Motor Standards:	NEMA
Duty Rating:	CONT	Starting Method:	Direct on line
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Bearing:	None
Feedback Device:	NO FEEDBACK	Thermal Device - Winding:	None
Front Face Code:	Standard	Vibration Sensor Indicator:	No Vibration Sensor
Front Shaft Indicator:	None	Winding Thermal 1:	None
		Winding Thermal 2:	None

Nameplate NP1259LUA										
CAT.NO.	VEM3156T									
SPEC.	35Z413M850G1									
HP	1									
VOLTS	230/460									
AMPS	3.6/1.8									
R.P.M.	1155									
FRAME	145TC				HZ	60			PH	3
SER.F.	1.15		CODE	J	DES	B		CLASS	F	
NEMA NOM. EFF.	82.5			P.F.	64					
RATING	40C AMB-CONT									
CC	010A				USABLE AT 208V			3.6		
DE	6205				ODE	6203				
ENCL	ODP		SN							
USABLE AT	50HZ 1HP 190/380V 4/2A									
									SF1.0	

Parts List		
Part Number	Description	Quantity
SA299829	SA 35Z413M850G1	1.000 EA
RA286862	RA 35Z413M850G1	1.000 EA
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 EA
35CB3009	35 CB W/1.09 DIA. LEAD HOLE @ 6:	1.000 EA
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
35EP3209A02	A00 W/DRIP COVER	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
35EP3402B00	MASTER DE,205 BRG,OPEN,W/GREASER	1.000 EA
35AD2000	AIR BAFFLE - GALVANNEAL	1.000 EA
60XW0632A06	6-32 X 3/8 TORX HEAD SCREW TAPTITE II	4.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 EA
35FH4006A09	DRIP COVER W/FLAT, W/ PRIMER	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	2.000 EA
35CB4521	35 LIPPED CB LID (GALV & PHOSPH)	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 EA
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 EA
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.050 LB
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.017 GA
HA3100A15	THRUBOLT 10-32 X 8.375	4.000 EA

Parts List (continued)		
Part Number	Description	Quantity
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
NP1259LUA	ALUM SUPER-E UL CSA-EEV CC NEMA PREMIUM	1.000 EA
36PA1000	PKG GRP, PRINT PK1016A06	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (2100/bx) 4/22	1.000 EA
PE-0000001	ZRTG PE ASSEMBLY	1.000 EA

AC Induction Motor Performance Data

Record # 53336

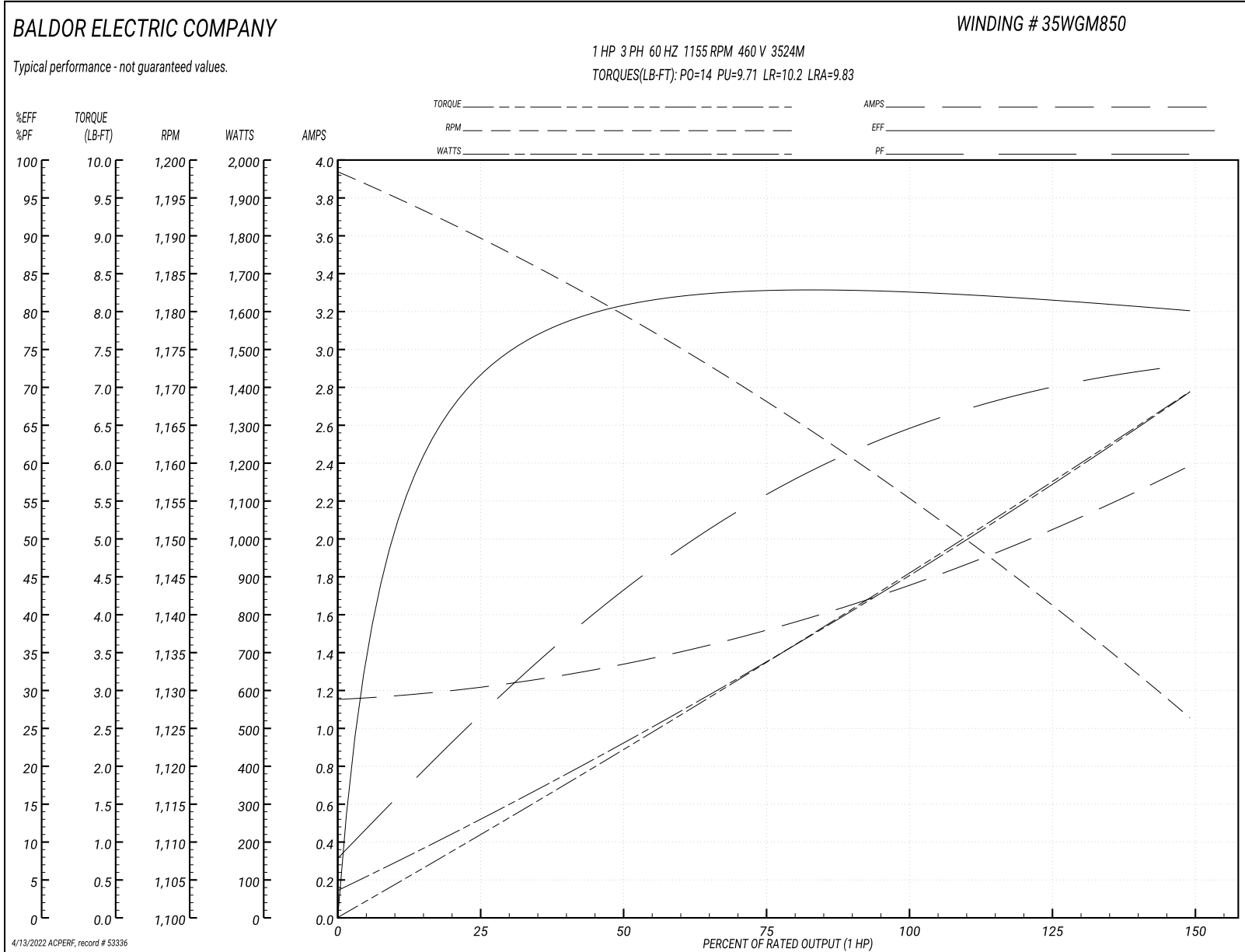
Typical performance - not guaranteed values

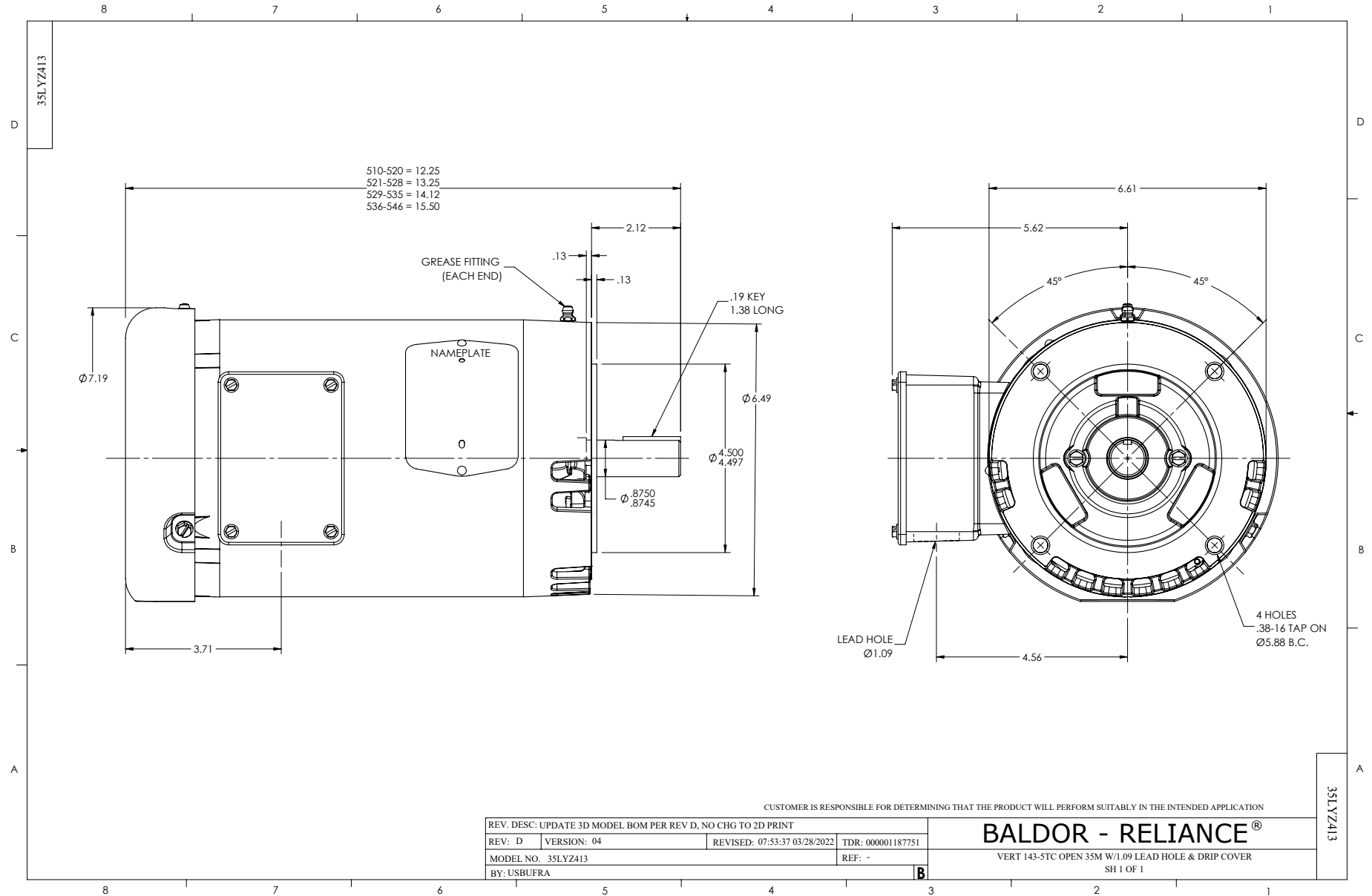
Winding: 35WGM850-R015		Type: 3524M		Enclosure: OPSB	
Nameplate Data			460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)	1	Full Load Torque	4.5 LB-FT		
Volts	230/460	Start Configuration	direct on line		
Full Load Amps	3.6/1.8	Breakdown Torque	14 LB-FT		
R.P.M.	1155	Pull-up Torque	9.71 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque	10.2 LB-FT	
NEMA Design Code	B KVA Code	J	Starting Current	9.83 A	
Service Factor (S.F.)	1.15	No-load Current	1.16 A		
NEMA Nom. Eff.	82.5	Power Factor	64	Line-line Res. @ 25°C	16.79 Ω
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	34°C	
S.F. Amps			Temp. Rise @ S.F. Load	42°C	
			Locked-rotor Power Factor	42	
			Rotor inertia	0.143 LB-FT ²	

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	27	44	56	64	70	73	68
Efficiency	71.1	80.6	83	83	81.9	80.1	82.3
Speed	1189.4	1178.8	1169	1156.4	1141.6	1126.3	1148
Line amperes	1.21	1.33	1.51	1.76	2.04	2.38	1.93

Performance Graph at 460V, 60Hz, 1.0HP Typical performance - Not guaranteed values





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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
900000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005