

**BALDOR® • RELIANCE** 

**Product Information Packet**

**VEBM3157T**

**2HP,1750RPM,3PH,60HZ,145TC,3526M,OPSB,F1**

Part Detail							
Revision:	F	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	35WGM496	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	35Q109	Layout:	35LYQ109	Poles:	04	Created Date:	10-08-2015
Base:	N	Eff. Date:	09-01-2017	Leads:	9#18		

Specs			
Catalog Number:	VEBM3157T	Insulation Class:	F
Enclosure:	OPSB	Inverter Code:	Inverter Ready
Frame:	145TC	KVA Code:	K
Frame Material:	Steel	Lifting Lugs:	No Lifting Lugs
Output @ Frequency:	2.000 HP @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 18 AWG
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	230.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	3526M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	UR	Power Factor:	76
	CSA EEV	Product Family:	General Purpose
	CSA	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	C-Face
Auxillary Box Lead Termination:	None	Pulley Shaft Indicator:	Standard
Base Indicator:	No Mounting	Rodent Screen:	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	RoHS Status:	ROHS COMPLIANT
Blower:	None	Shaft Extension Location:	Pulley End

<b>Current @ Voltage:</b>	2.900 A @ 460.0 V	<b>Shaft Ground Indicator:</b>	No Shaft Grounding
	5.800 A @ 208.0 V	<b>Shaft Rotation:</b>	Reversible
	5.800 A @ 230.0 V	<b>Shaft Slinger Indicator:</b>	No Slinger
<b>Design Code:</b>	B	<b>Speed Code:</b>	Single Speed
<b>Drip Cover:</b>	No Drip Cover	<b>Motor Standards:</b>	NEMA
<b>Duty Rating:</b>	CONT	<b>Starting Method:</b>	Direct on line
<b>Electrically Isolated Bearing:</b>	Not Electrically Isolated	<b>Thermal Device - Bearing:</b>	NONE (OLD)
<b>Feedback Device:</b>	NO FEEDBACK	<b>Thermal Device - Winding:</b>	None
<b>Front Face Code:</b>	Brake Mounting	<b>Vibration Sensor Indicator:</b>	No Vibration Sensor
<b>Front Shaft Indicator:</b>	None	<b>Winding Thermal 1:</b>	None
<b>Heater Indicator:</b>	No Heater	<b>Winding Thermal 2:</b>	None

Nameplate NP1259L										
CAT.NO.	VEBM3157T									
SPEC.	35Q109M496G1									
HP	2									
VOLTS	230/460									
AMP	5.8/2.9									
RPM	1750									
FRAME	145TC				HZ	60			PH	3
SER.F.	1.15		CODE	K	DES	B		CL	F	
NEMA-NOM-EFF	86.5		PF	76						
RATING	40C AMB-CONT									
CC	010A				USABLE AT 208V			5.8		
DE	6205				ODE	6203				
ENCL	OPSB		SN							

Parts List		
Part Number	Description	Quantity
SA308711	SA 35Q109M496G1	1.000 EA
RA296045	RA 35Q109M496G1	1.000 EA
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 EA
35CB3000SP	CONDUIT BOX, CAST, W/.88 DIA. LEAD HOLE	1.000 EA
51XB1016A05	10-16X5/16HX WA SL SR TYB (F/S)	2.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 EA
35EP3900A02	SPL FACE MTD FR EP-OPEN-W/STEARNS BRAKE	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
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 EA
HW2501D10	KEY, 3/16 SQ X 1.000	1.000 EA
35CB4514	35 LIPPED CB LID	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, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
35AD2005A01	BAFFLE PLATE,MOD 35-SLTD BAND MTRS GL.F.	1.000 EA
35AD2012A01	AIR BAFFLE 35 SLOTTED BAND (SINGLE PHASE	1.000 EA
84XN3816J28	HEX SOC HD, 3/8-16 X 1.75 LONG	2.000 EA
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.017 GA

<b>Parts List (continued)</b>		
<b>Part Number</b>	<b>Description</b>	<b>Quantity</b>
HA3100A15	THRUBOLT 10-32 X 8.375	4.000 EA
76BK3100BQF	1-056-031-00-BQF BRAKE TDR# 79345	1.000 EA
LB1404	BRAKE CONNECTION LABEL	1.000 EA
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
NP1259L	ALUM SUPER-E UL CSA-EEV CC NEMA PREMIUM	1.000 EA
36PA1000	PKG GRP, PRINT PK1016A06	1.000 EA
PK3082	STYROFOAM CRADLE	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 5/18	1.000 EA
PE-0000001	ZRTG PE ASSEMBLY	1.000 EA

**AC Induction Motor Performance Data**

Record # 33882 - Typical performance - not guaranteed values

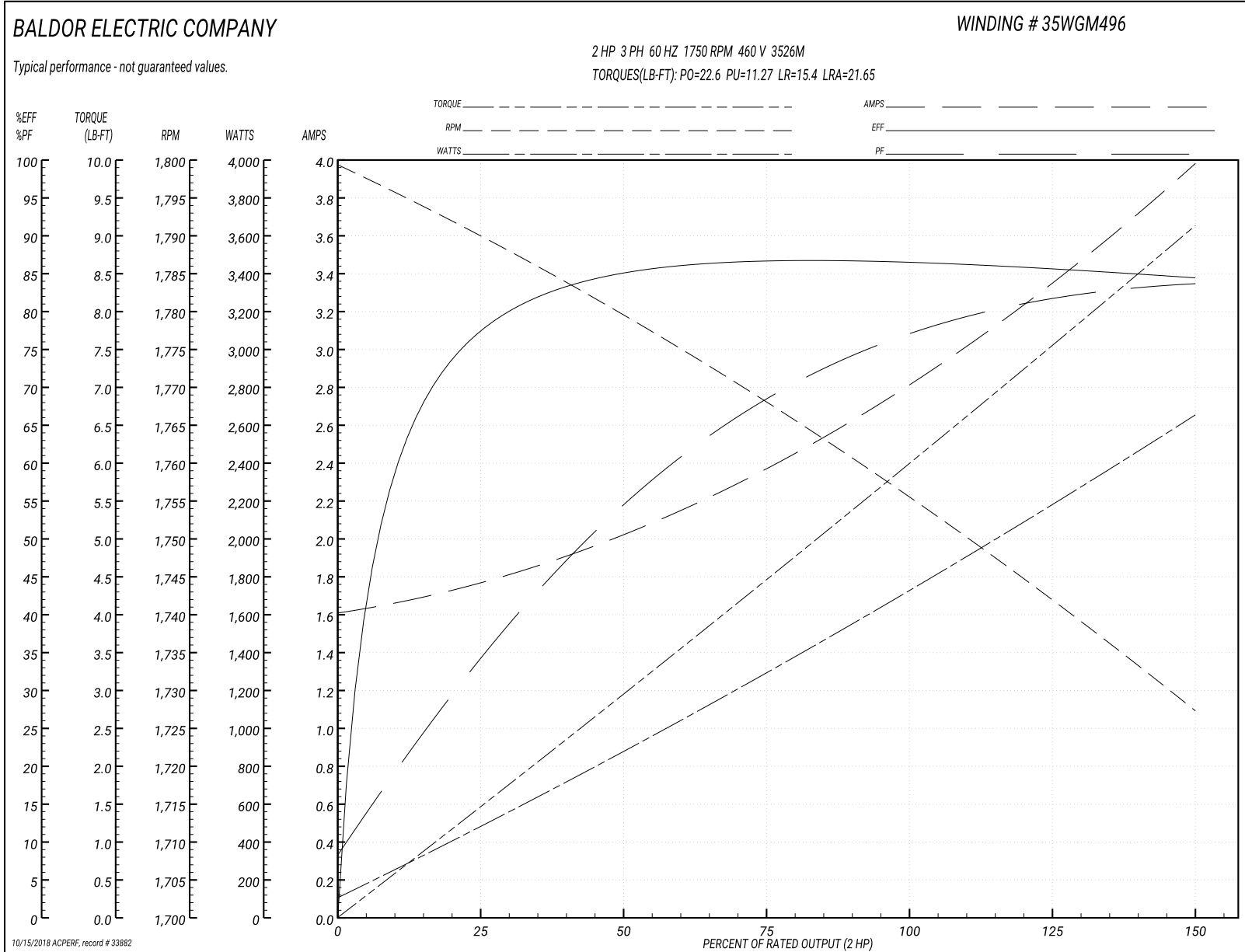
<b>Winding:</b> 35WGM496-R001	<b>Type:</b> 3526M	<b>Enclosure:</b> OPSB
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	2			Full Load Torque	6.02 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	5.8/2.9			Breakdown Torque	22.6 LB-FT
R.P.M.	1750			Pull-up Torque	11.27 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	15.4 LB-FT
NEMA Design Code	B	KVA Code	K	Starting Current	21.65 A
Service Factor (S.F.)	1.15			No-load Current	1.63 A
NEMA Nom. Eff.	86.5	Power Factor	76	Line-line Res. @ 25°C	8.22 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	38°C
S.F. Amps				Temp. Rise @ S.F. Load	46°C
				Locked-rotor Power Factor	52.4
				Rotor inertia	0.154 LB-FT <sup>2</sup>

Load Characteristics 460 V, 60 Hz, 2 HP

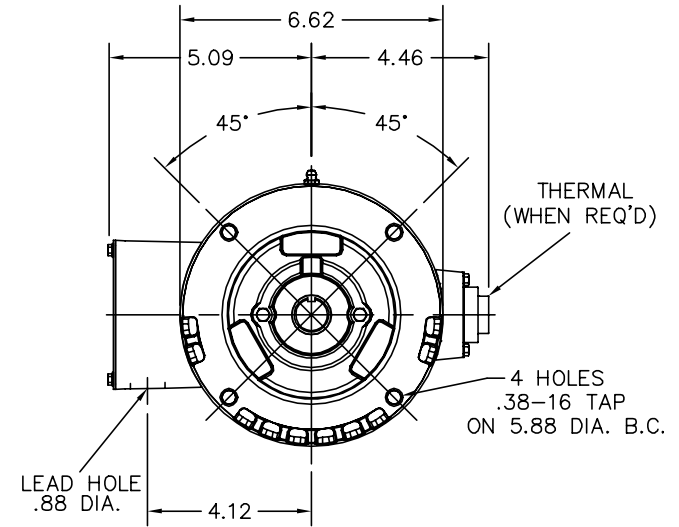
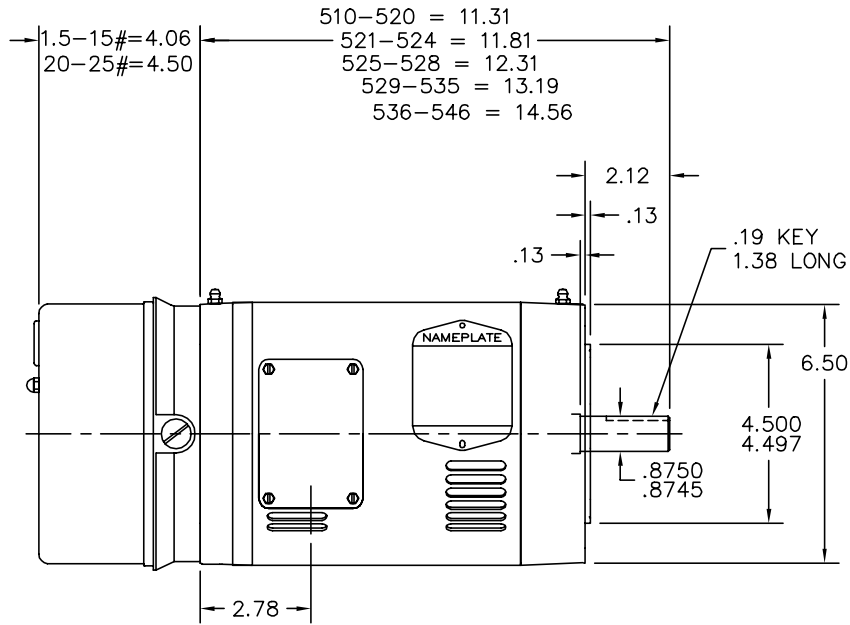
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	35	56	69	76	81	84	76
Efficiency	77	84.7	86.8	86.6	85.8	84.3	86.6
Speed	1789	1779	1768	1756	1742	1727	1749
Line amperes	1.75	2.01	2.37	2.85	3.37	3.96	3.25

Performance Graph at 460V, 60Hz, 2.0HP Typical performance - Not guaranteed values





35LYQ109



CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

REV. DESC: REPLACE ENDPLATES		
REV. LTR: C	VERSION: 03	TDR: 000001041474
FILE: \AAA\00049\174	REVISED: 01:29:04 09/07/2017	BY: USJOBUR22
MTL: -	⊙ □	

**BALDOR**

STD VER 143-5TC OPSB 35M W/BRAKE

SH 1 of 1

35LYQ109

CD0005

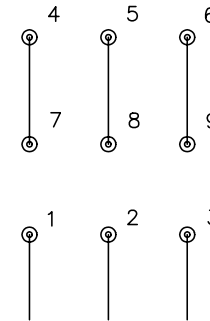


LOW VOLTAGE  
(2Y)



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