

**BALDOR® • RELIANCE** 

**Product Information Packet**

**VEBM3546T-S**

**1HP,1760RPM,3PH,60HZ,143TC,3519M,TEFC,F3**

Part Detail							
Revision:	J	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	35WGM492	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	35X067	Layout:	35LYX067	Poles:	04	Created Date:	10-08-2015
Base:	N	Eff. Date:	10-20-2021	Leads:	9#18		

Specs			
Catalog Number:	VEBM3546T-S	Front Shaft Indicator:	None
Enclosure:	TEFC	Heater Indicator:	No Heater
Frame:	143TC	Insulation Class:	F
Frame Material:	Steel	Inverter Code:	Inverter Ready
Motor Letter Type:	Three Phase	KVA Code:	L
Output @ Frequency:	1.000 HP @ 60 HZ	Lifting Lugs:	No Lifting Lugs
Synchronous Speed @ Frequency:	1800 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:	3520M
Agency Approvals:	CE	Mounting Arrangement:	F3
	CSA	Power Factor:	71
	CSA EEV	Product Family:	General Purpose
	UR	Pulley End Bearing Type:	Ball
	WEEE	Pulley Face Code:	C-Face
Auxillary Box:	No Auxillary Box	Pulley Shaft Indicator:	Standard
Auxillary Box Lead Termination:	None	Rodent Screen:	None

<b>Base Indicator:</b>	No Mounting	<b>RoHS Status:</b>	ROHS COMPLIANT
<b>Bearing Grease Type:</b>	Polyrex EM (-20F +300F)	<b>Shaft Extension Location:</b>	Pulley End
<b>Blower:</b>	None	<b>Shaft Ground Indicator:</b>	No Shaft Grounding
<b>Current @ Voltage:</b>	3.100 A @ 208.0 V	<b>Shaft Rotation:</b>	Reversible
	3.000 A @ 230.0 V	<b>Shaft Slinger Indicator:</b>	No Slinger
	1.500 A @ 460.0 V	<b>Speed Code:</b>	Single Speed
<b>Design Code:</b>	B	<b>Motor Standards:</b>	NEMA
<b>Drip Cover:</b>	No Drip Cover	<b>Starting Method:</b>	Direct on line
<b>Duty Rating:</b>	CONT	<b>Thermal Device - Bearing:</b>	None
<b>Electrically Isolated Bearing:</b>	Not Electrically Isolated	<b>Thermal Device - Winding:</b>	None
<b>Feedback Device:</b>	NO FEEDBACK	<b>Vibration Sensor Indicator:</b>	No Vibration Sensor
<b>Front Face Code:</b>	Special Combinations Not Liste	<b>Winding Thermal 1:</b>	None
		<b>Winding Thermal 2:</b>	None

<b>Nameplate NP2934L</b>										
<b>CAT.NO.</b>	VEBM3546T-S									
<b>SPEC.</b>	35X067M492G1									
<b>HP</b>	1									
<b>VOLTS</b>	230/460									
<b>AMP</b>	3/1.5									
<b>RPM</b>	1760									
<b>FRAME</b>	143TC				<b>HZ</b>	60		<b>PH</b>	3	
<b>SER.F.</b>	1.15			<b>CODE</b>	L	<b>DES</b>	B	<b>CL</b>	F	
<b>NEMA-NOM-EFF</b>	85.5			<b>PF</b>	71					
<b>RATING</b>	40C AMB-CONT									
<b>CC</b>	010A				<b>USABLE AT 208V</b>			3.1		
<b>DE</b>	6205			<b>ODE</b>	6205					
<b>ENCL</b>	TEFC			<b>SN</b>						
IP22, BRK 6 FT-LB										

Parts List		
Part Number	Description	Quantity
SA308669	SA 35X067M492G1	1.000 EA
RA296005	RA 35X067M492G1	1.000 EA
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 EA
35CB4007	KOBX,W/PRIMER (REL# 79097-49-C)	1.000 EA
35GS3009	GASKET, KOBX 35CB4006 (411881-15A)	1.000 EA
51XB1016A05	10-16X5/16HX WA SL SR TYB (F/S)	2.000 EA
WD4101A13	STEEL CAPLUG,BP-1 1/8, PLUG D3561S	1.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
HW3001B02	BRASS CUP WASHER W/GROUND SYMBOL TAB,	1.000 EA
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 EA
35EP3307F00	MASTER DE,205 BRG,.998SH,#26 DRN	1.000 EA
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 EA
HW1001A10	WASHER, #10 SPLT LK, ZN X	4.000 EA
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 EA
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 EA
BR2003D01	SPLINED HUB 7/8 W/O KEY, W/SET SCREWS	1.000 EA
35FN3003A02	EXFN, PLASTIC, 5.88 OD, .876 ID (REL)	1.000 EA
35FH4007A01	FAN COVER FOR SHORT SERIES BRAKE, PRIMER	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	4.000 EA
35CB4519	CB LID W/BLACK PRIMER	1.000 EA
35GS3019A01	LEXIDE GASKET, FOR KOBX LID 35CB4519	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 EA
WD4006A01	WIRE JOINT,T&B RB-4 OR RB-44	1.000 EA
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
LB1418	INTEGRAL BRK ADJ LABEL (REL# 41171617A)	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 LB
MG1025N19	MUNSELL 8.5BG 3.57/2.0, GLOSS 30, B/G,	0.017 GA
LB1419	CONNECTION LABEL	1.000 EA
HA3100A47	THRUBOLT 10-32 X 7.625	4.000 EA
43BK0200B02	SSB-6-230/460(205) L HUB	1.000 EA
LB1424A02	BRAKE VOLT LABEL 230/460V SSB	1.000 EA
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
NP2934L	ALUM SUPER-E UL CSA-EEV CE CC PREM	1.000 EA
36PA1001	PKG GRP, PRINT PK1017A06	1.000 EA
PK3082	STYROFOAM CRADLE	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 # 53095

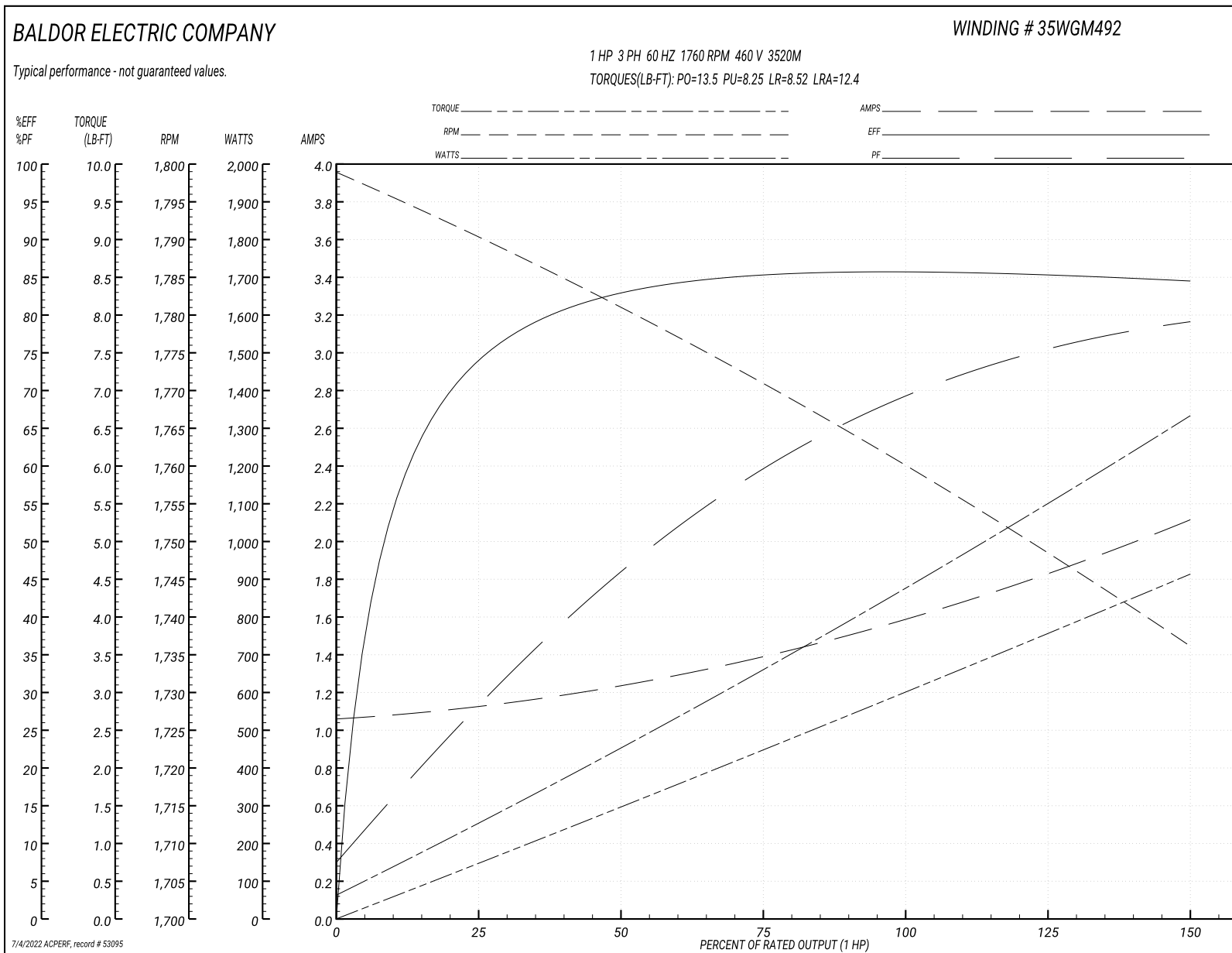
Typical performance - not guaranteed values

Winding: 35WGM492-R050		Type: 3520M	Enclosure: TEFC	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>	
Rated Output (HP)	1	Full Load Torque	2.99 LB-FT	
Volts	230/460	Start Configuration	direct on line	
Full Load Amps	3/1.5	Breakdown Torque	13.5 LB-FT	
R.P.M.	1760	Pull-up Torque	8.25 LB-FT	
Hz	60 Phase	Locked-rotor Torque	8.52 LB-FT	
NEMA Design Code	B KVA Code	Starting Current	12.4 A	
Service Factor (S.F.)	1.15	No-load Current	1.07 A	
NEMA Nom. Eff.	85.5 Power Factor	Line-line Res. @ 25°C	15 Ω	
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	36°C	
S.F. Amps		Temp. Rise @ S.F. Load	42°C	
		Locked-rotor Power Factor	53.8	
		Rotor inertia	0.118 LB-FT <sup>2</sup>	

**Load Characteristics 460 V, 60 Hz, 1 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	29	46	60	69	75	79	75
Efficiency	74.2	82.9	85.4	85.8	85.4	84.5	85.4
Speed	1790	1781	1771	1760	1749	1736	1754
Line amperes	1.11	1.24	1.39	1.59	1.83	2.11	1.69

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





**AC Induction Motor Performance Data**

Record # 57707

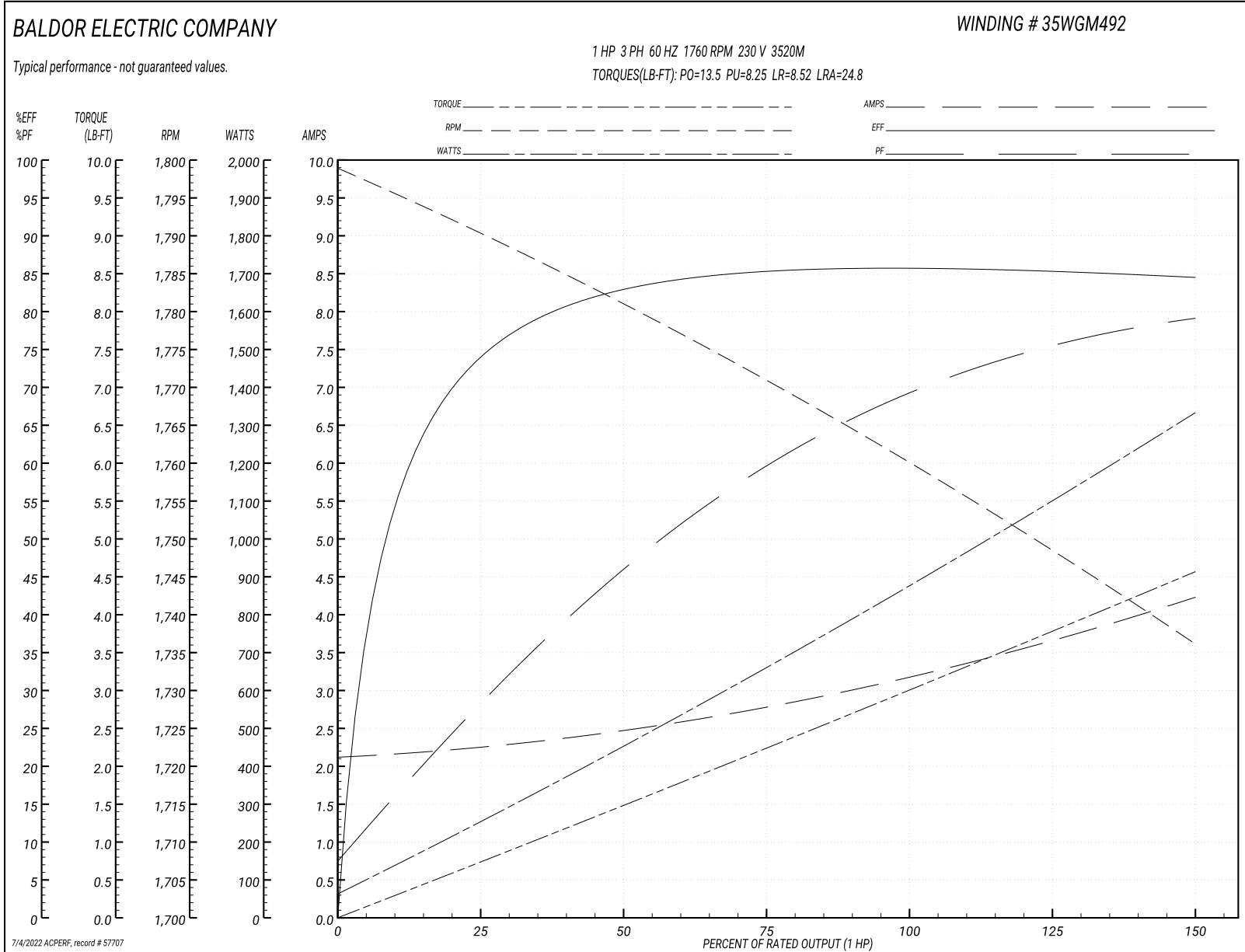
Typical performance - not guaranteed values

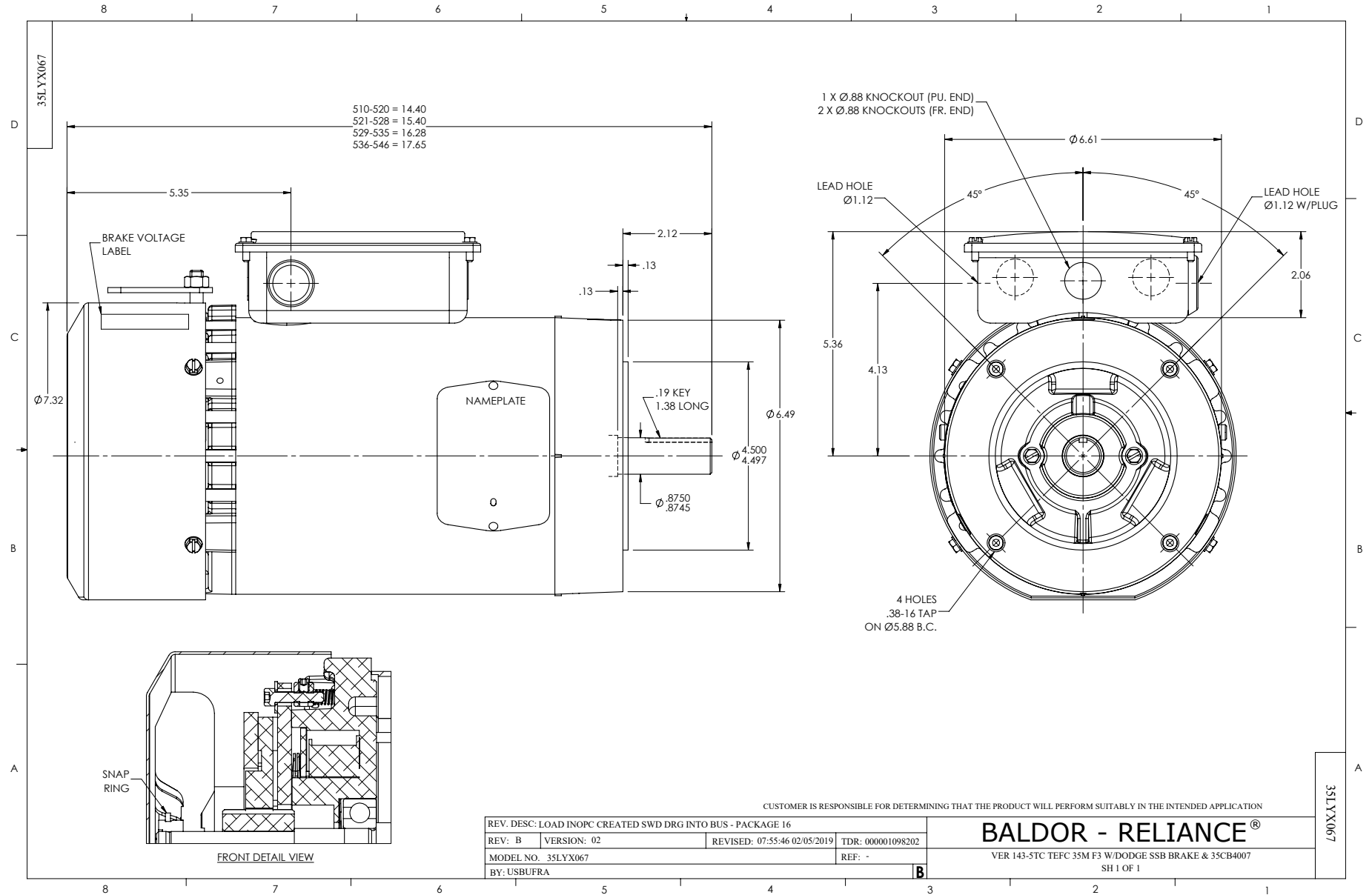
<b>Winding: 35WGM492-R050</b>		<b>Type: 3520M</b>		<b>Enclosure: TEFC</b>		
<b>Nameplate Data</b>			<b>230 V, 60 Hz: High Voltage Connection</b>			
<b>Rated Output (HP)</b>	1	<b>Full Load Torque</b>	2.99 LB-FT			
<b>Volts</b>	230/460	<b>Start Configuration</b>	direct on line			
<b>Full Load Amps</b>	3/1.5	<b>Breakdown Torque</b>	13.5 LB-FT			
<b>R.P.M.</b>	1760	<b>Pull-up Torque</b>	8.25 LB-FT			
<b>Hz</b>	60 <b>Phase</b>	3	<b>Locked-rotor Torque</b>	8.52 LB-FT		
<b>NEMA Design Code</b>	<b>B KVA Code</b>	L	<b>Starting Current</b>	24.8 A		
<b>Service Factor (S.F.)</b>	1.15		<b>No-load Current</b>	2.14 A		
<b>NEMA Nom. Eff.</b>	85.5 <b>Power Factor</b>	71	<b>Line-line Res. @ 25°C</b>	3.75 Ω		
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>	36°C		
<b>S.F. Amps</b>			<b>Temp. Rise @ S.F. Load</b>	42°C		
			<b>Locked-rotor Power Factor</b>	53.8		
			<b>Rotor inertia</b>	0.118 LB-FT <sup>2</sup>		

**Load Characteristics 230 V, 60 Hz, 1 HP**

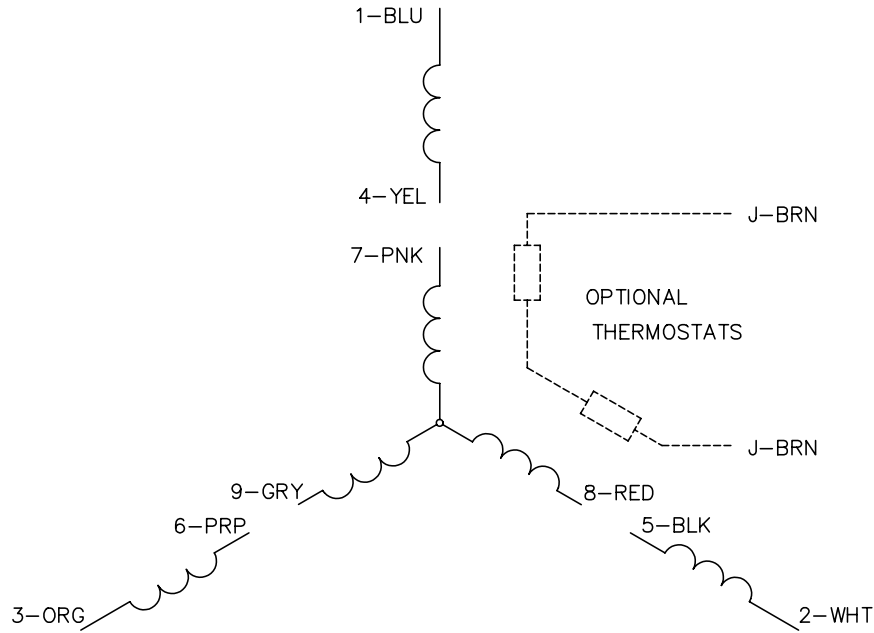
<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>S.F.</b>
<b>Power Factor</b>	29	46	60	69	75	79	74
<b>Efficiency</b>	74.2	82.9	85.4	85.8	85.4	84.5	85.6
<b>Speed</b>	1790	1781	1771	1760	1749	1736	1754
<b>Line amperes</b>	2.22	2.48	2.78	3.18	3.66	4.22	1.69

Performance Graph at 230V, 60Hz, 1.0HP Typical performance - Not guaranteed values

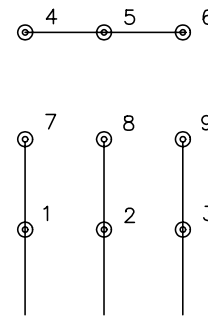




CD0005

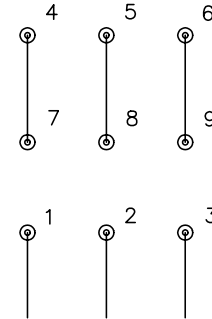


LOW VOLTAGE  
(2Y)



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
90000		FILE: AAA00005140	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS

CD0005