

**BALDOR® • RELIANCE** 

**Product Information Packet**

**VM3707**

**5HP,1745RPM,3PH,60HZ,215C,3634M,TEFC,F1**

Part Detail							
Revision:	E	Status:	INA/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	36WGS543	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	36F850	Layout:	36LYF850	Poles:	04	Created Date:	08-27-2010
Base:	N	Eff. Date:	03-08-2016	Leads:	9#16		

Specs			
Catalog Number:	VM3707	Heater Indicator:	No Heater
Enclosure:	TEFC	Insulation Class:	F
Frame:	215C	Inverter Code:	Not Inverter
Frame Material:	Steel	KVA Code:	J
Motor Letter Type:	Three Phase	Lifting Lugs:	No Lifting Lugs
Output @ Frequency:	5.000 HP @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 16 AWG
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	230.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
	208.0 V @ 60 HZ	Motor Type:	3634M
XP Class and Group:	None	Mounting Arrangement:	F1
XP Division:	Not Applicable	Power Factor:	78
Agency Approvals:	CSA	Product Family:	General Purpose
	UR	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:	N	Rodent Screen:	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	Shaft Extension Location:	Pulley End

<b>Blower:</b>	None	<b>Shaft Ground Indicator:</b>	No Shaft Grounding
<b>Current @ Voltage:</b>	6.800 A @ 460.0 V	<b>Shaft Rotation:</b>	Reversible
	14.200 A @ 208.0 V	<b>Shaft Slinger Indicator:</b>	No Slinger
	13.600 A @ 230.0 V	<b>Speed Code:</b>	Single Speed
<b>Design Code:</b>	A	<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>	Standard	<b>Winding Thermal 1:</b>	None
<b>Front Shaft Indicator:</b>	None	<b>Winding Thermal 2:</b>	None

Nameplate NP1256L										
CAT.NO.										
SPEC.	36F850S543H1									
HP	5									
VOLTS	208-230/460									
AMP	14.2-13.6/6.8									
RPM	1745									
FRAME	215C				HZ	60			PH	3
SER.F.	1.15		CODE	J	DES	A		CLASS	F	
NEMA-NOM-EFF	87.5		PF	78						
RATING	40C AMB-CONT									
CC	010A				USABLE AT 208V			N/A		
DE	6206				ODE	6205				
ENCL	TEFC		SN							

**AC Induction Motor Performance Data**

Record # 32154

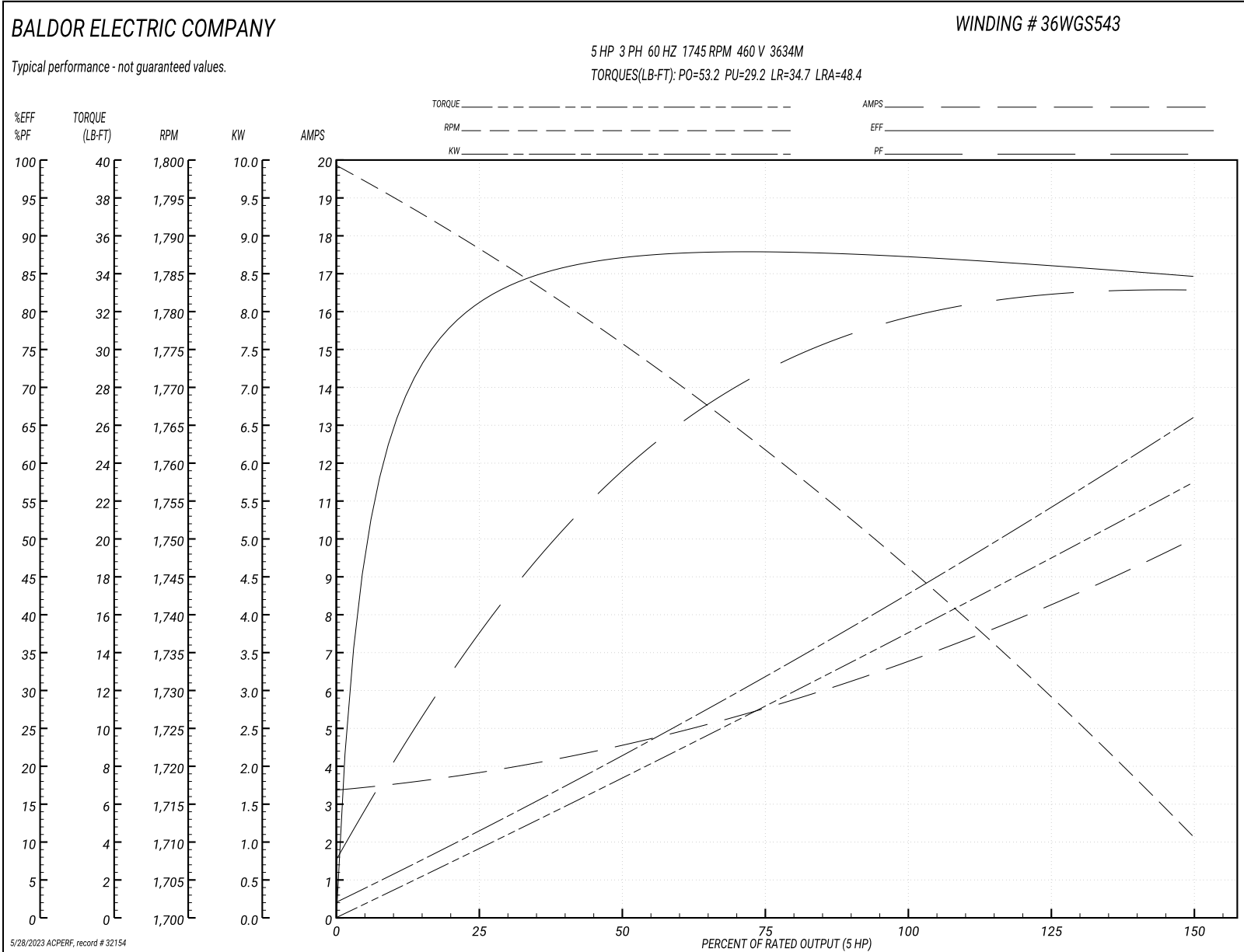
Typical performance - not guaranteed values

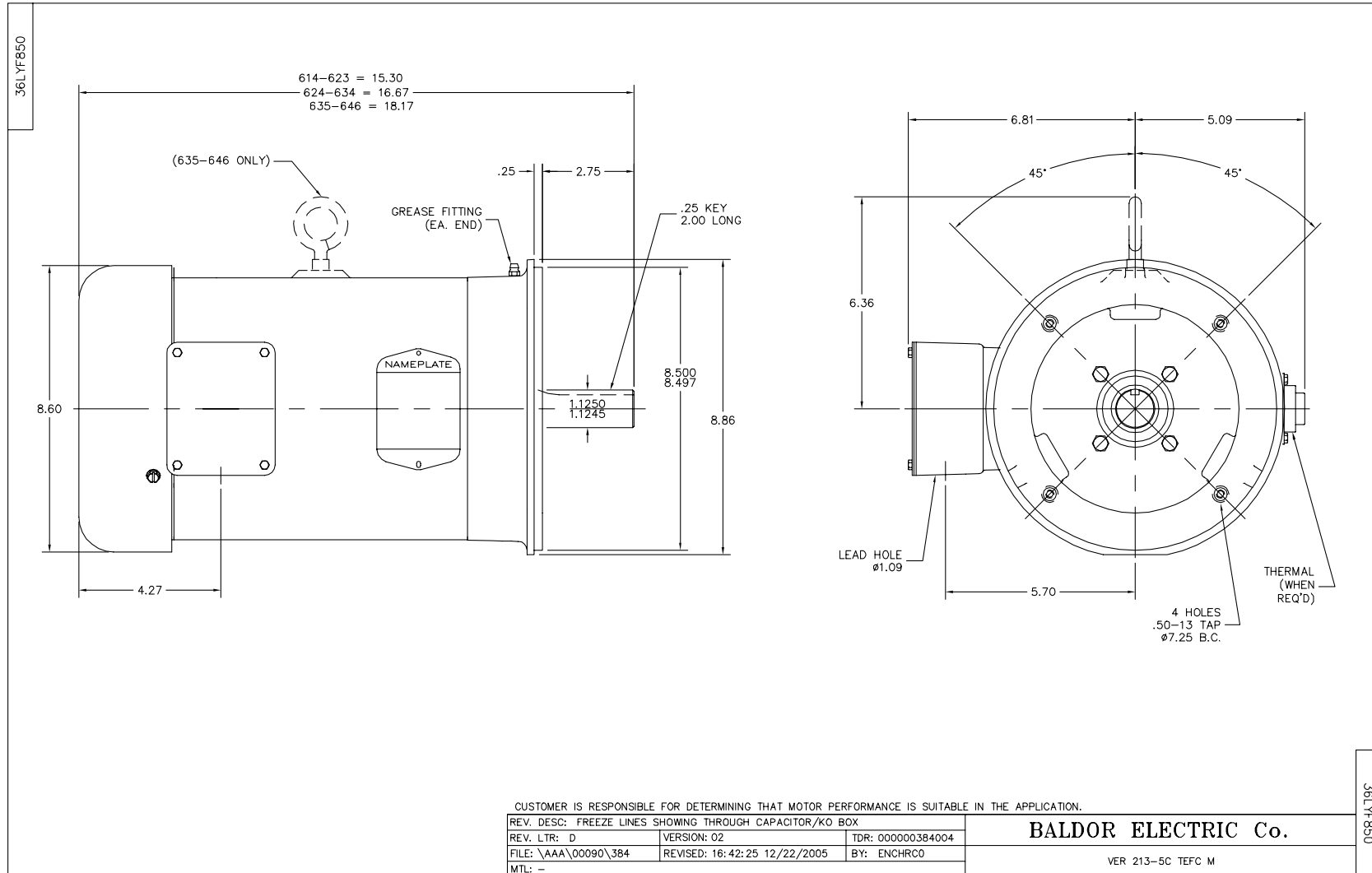
Winding: 36WGS543-R001		Type: 3634M	Enclosure: TEFC	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>	
Rated Output (HP)	5	Full Load Torque	15 LB-FT	
Volts	208-230/460	Start Configuration	direct on line	
Full Load Amps	14.2-13.6/6.8	Breakdown Torque	53.2 LB-FT	
R.P.M.	1745	Pull-up Torque	29.2 LB-FT	
Hz	60 Phase	Locked-rotor Torque	34.7 LB-FT	
NEMA Design Code	A KVA Code	Starting Current	48.4 A	
Service Factor (S.F.)	1.15	No-load Current	3.42 A	
NEMA Nom. Eff.	87.5 Power Factor	Line-line Res. @ 25°C	2.6196 Ω	
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	78°C	
S.F. Amps		Temp. Rise @ S.F. Load	96°C	
		Locked-rotor Power Factor	42	
		Rotor inertia	0.317 LB-FT <sup>2</sup>	

**Load Characteristics 460 V, 60 Hz, 5 HP**

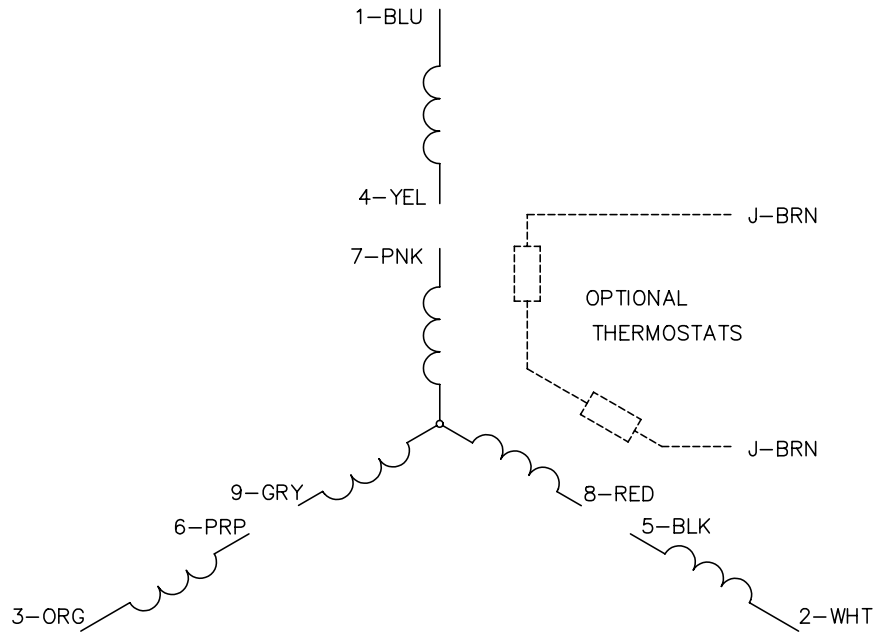
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	38	59	72	78	82	83	80
Efficiency	80.9	87.1	88.3	87.8	86.6	84.7	87.1
Speed	1788.2	1775.7	1761.9	1747.1	1729.5	1710.5	1737
Line amperes	3.77	4.5	5.5	6.83	8.24	9.97	7.68

Performance Graph at 460V, 60Hz, 5.0HP Typical performance - Not guaranteed values

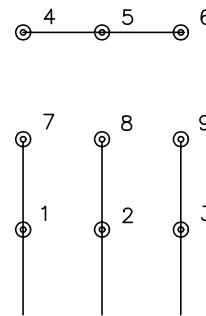




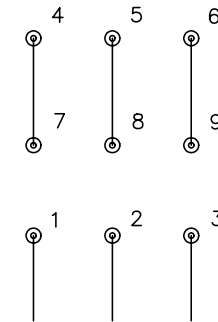
CD0005



LOW VOLTAGE  
(2Y)



HIGH VOLTAGE  
(1Y)



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