

BALDOR® • RELIANCE

Product Information Packet

EM3704T

3HP,1160RPM,3PH,60HZ,213T,3738M,TEFC,F1

Part Detail							
Revision:	Q	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	37WGS519	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	37H244	Layout:	37LYH244	Poles:	06	Created Date:	04-11-2008
Base:	RG	Eff. Date:	08-02-2017	Leads:	9#14		

Specs			
Catalog Number:	EM3704T	Insulation Class:	F
Enclosure:	TEFC	Inverter Code:	Inverter Ready
Frame:	213T	KVA Code:	L
Frame Material:	Steel	Lifting Lugs:	Standard Lifting Lugs
Output @ Frequency:	3.000 HP @ 60 HZ	Locked Bearing Indicator:	No Locked Bearing
Synchronous Speed @ Frequency:	1200 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 14 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:	3738M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	UR	Power Factor:	68
	CSA EEV	Product Family:	General Purpose
	CSA	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	Standard
Auxillary Box Lead Termination:	None	Pulley Shaft Indicator:	Standard
Base Indicator:	Rigid	Rodent Screen:	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	RoHS Status:	ROHS COMPLIANT
Blower:	None	Shaft Extension Location:	Pulley End

Current @ Voltage:	4.600 A @ 460.0 V	Shaft Ground Indicator:	No Shaft Grounding
	9.200 A @ 230.0 V	Shaft Rotation:	Reversible
	9.600 A @ 208.0 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
Heater Indicator:	No Heater	Winding Thermal 2:	None

Nameplate NP3441LUA

CAT.NO.	EM3704T												
SPEC	37H244S519G1												
HP	3												
VOLTS	230/460												
AMPS	9.2/4.6												
RPM	1160												
FRAME	213T				HZ		60		PH	3			
SF	1.15		CODE		L	DES		B	CLASS	F			
NEMA NOM. EFF	89.5			PF		68							
RATING	40C AMB-CONT												
CC	010A			USABLE AT 208V							9.6		
ENCL	TEFC		SER										
DE	6307			ODE		6206							
VPWM INVERTER READY													
CT6-60H(10:1)VT3-60H(20:1													
50Hz 3HP 190/380V 10.6/5.3A											SF1.0		

AC Induction Motor Performance Data

Record # 53388 - Typical performance - not guaranteed values

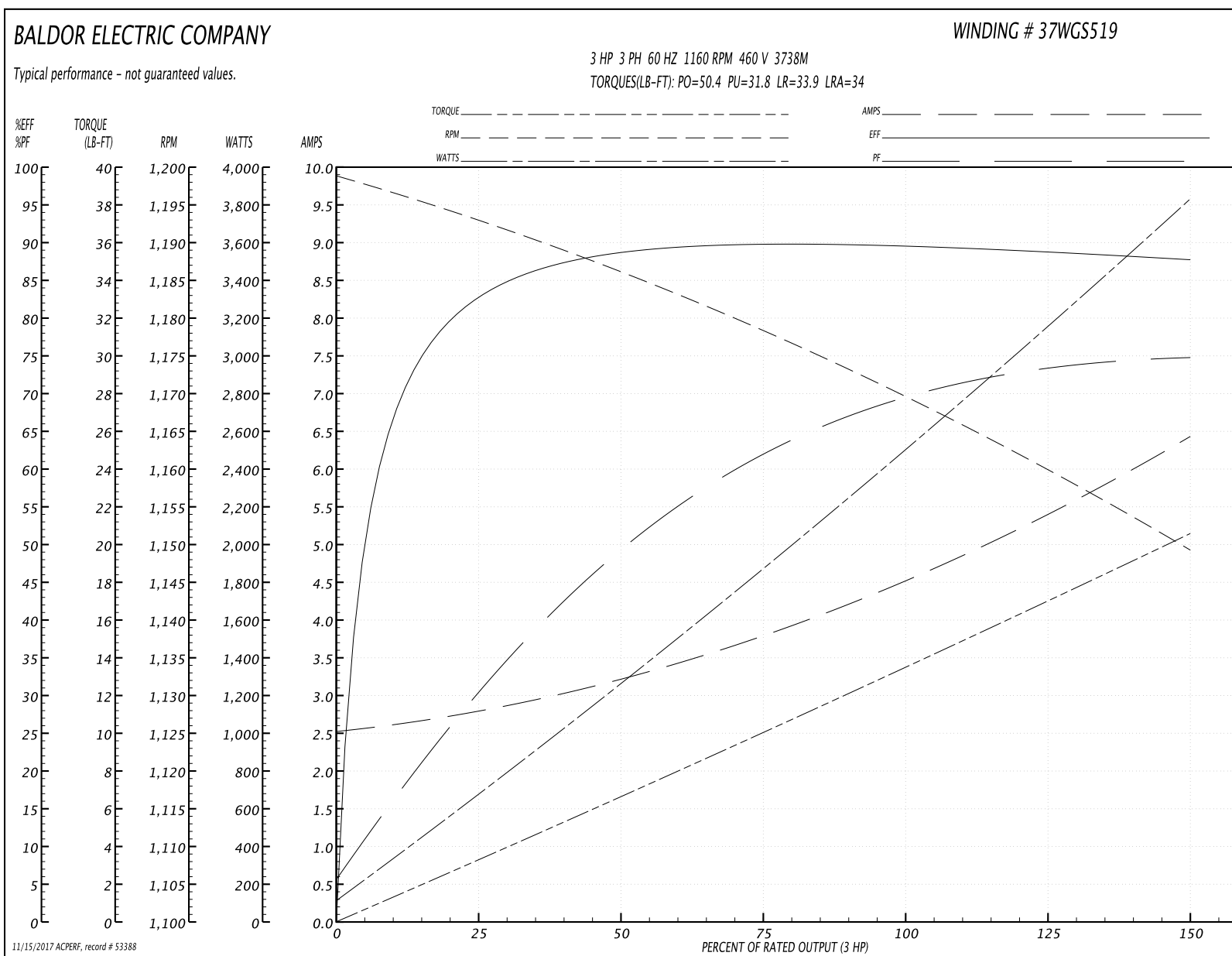
Winding: 37WGS519-R032	Type: 3738M	Enclosure: TEFC
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	3			Full Load Torque	13.4 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	9.2/4.6			Breakdown Torque	50.4 LB-FT
R.P.M.	1160			Pull-up Torque	31.8 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	33.9 LB-FT
NEMA Design Code	B	KVA Code	L	Starting Current	34 A
Service Factor (S.F.)	1.15			No-load Current	2.56 A
NEMA Nom. Eff.	89.5	Power Factor	68	Line-line Res. @ 25°C	2.67 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	38°C
S.F. Amps				Temp. Rise @ S.F. Load	45°C
				Locked-rotor Power Factor	22.9
				Rotor inertia	0.945 LB-FT ²

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	30	50	62	69	73	75	70
Efficiency	82.1	88.6	89.5	89.8	89.1	87.6	89.1
Speed	1193	1186	1178	1170	1160	1149	1166
Line amperes	2.74	3.19	3.82	4.53	5.44	6.41	5.14

Performance Graph at 460V, 60Hz, 3.0HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data

Record # 60478 - Typical performance - not guaranteed values

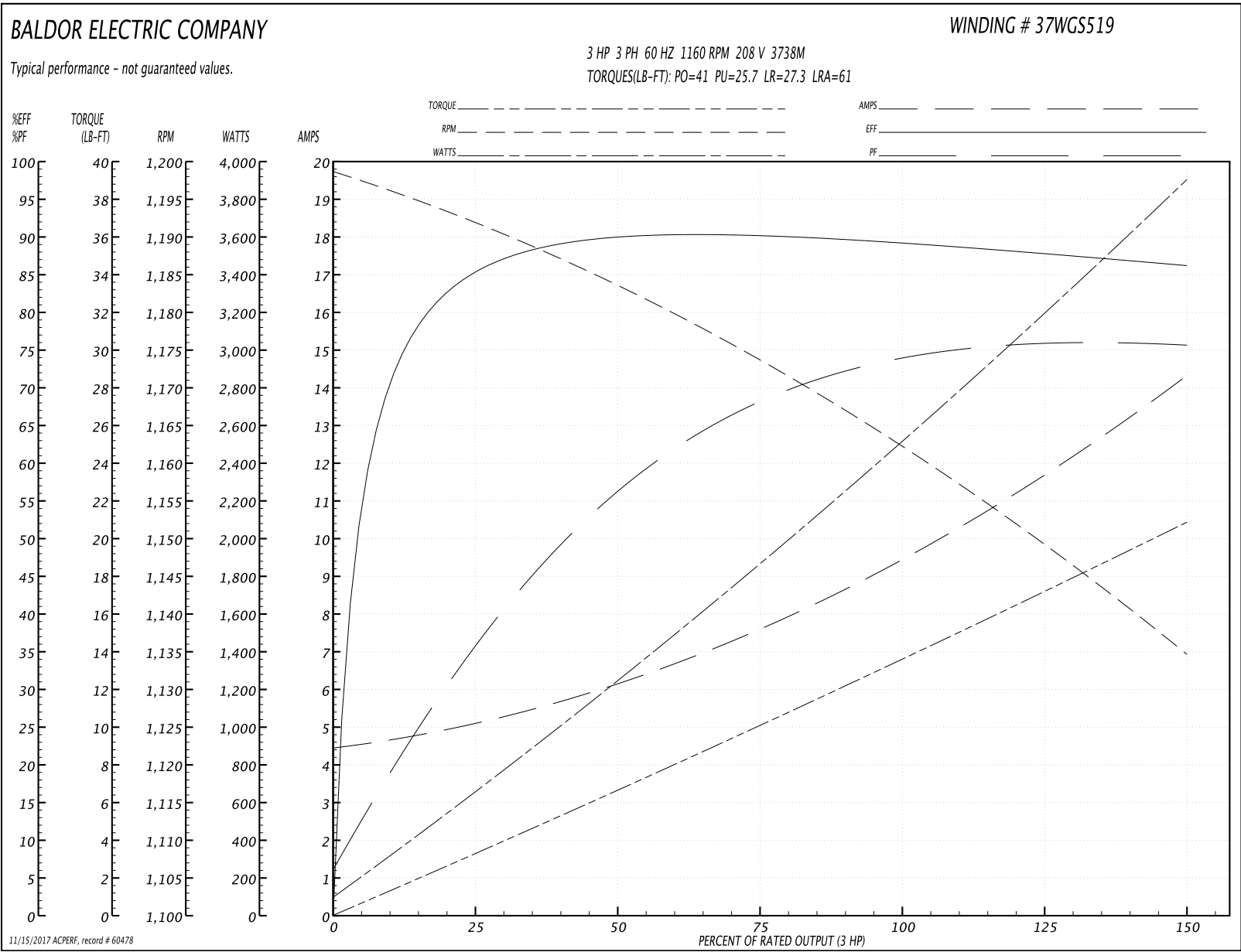
Winding: 37WGS519-R032	Type: 3738M	Enclosure: TEFC
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Nameplate Data				208 V, 60 Hz: Low Voltage Connection	
Rated Output (HP)	3			Full Load Torque	13.5 LB-FT
Volts	208-230/460			Start Configuration	direct on line
Full Load Amps	9.5-9.2/4.6			Breakdown Torque	41 LB-FT
R.P.M.	1160			Pull-up Torque	25.7 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	27.3 LB-FT
NEMA Design Code	B	KVA Code	L	Starting Current	61 A
Service Factor (S.F.)	1.15			No-load Current	4.52 A
NEMA Nom. Eff.	89.5	Power Factor	68	Line-line Res. @ 25°C	0.668 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	39°C
S.F. Amps				Temp. Rise @ S.F. Load	49°C
				Locked-rotor Power Factor	22.9
				Rotor inertia	0.945 LB-FT ²

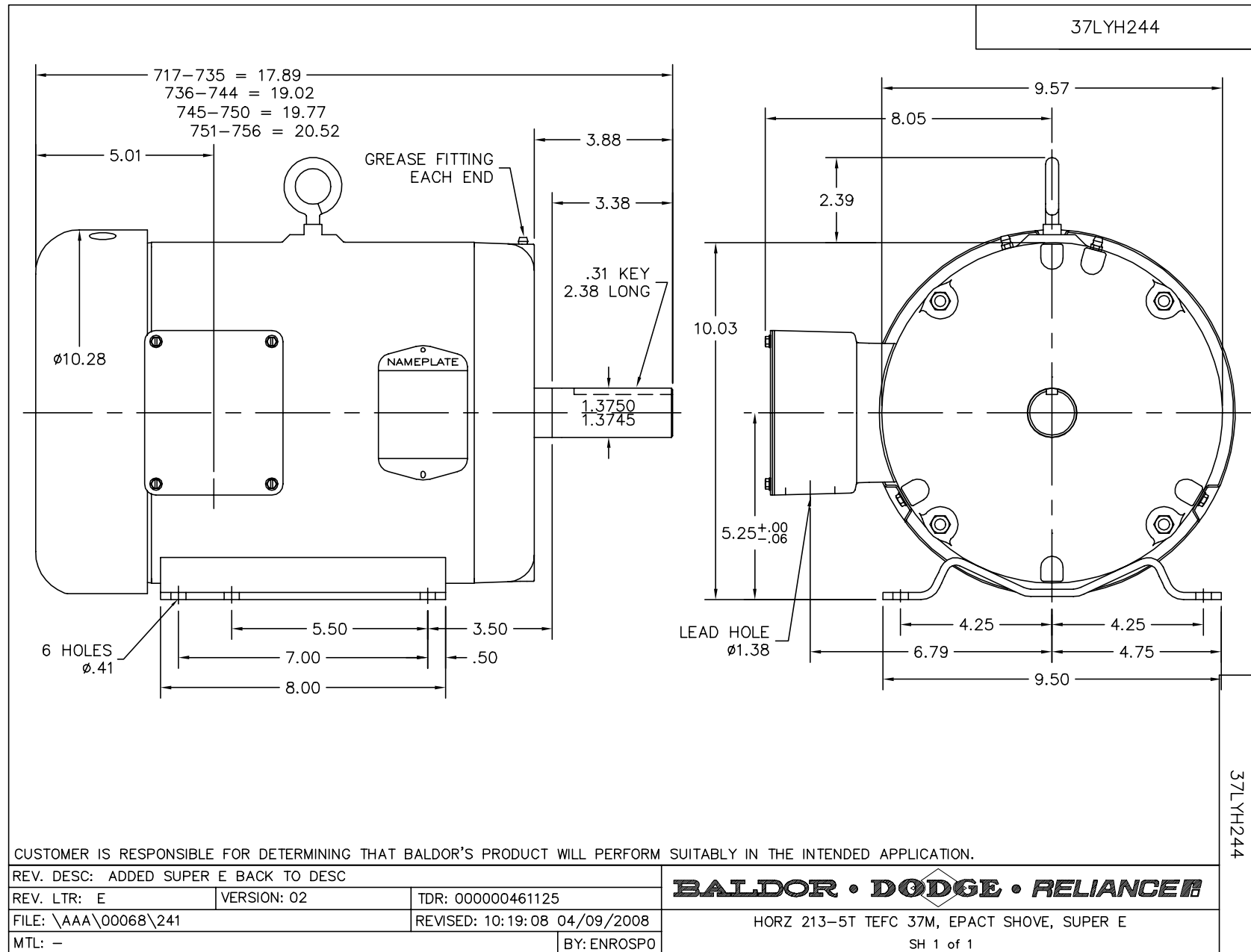
Load Characteristics 208 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	36	57	68	73	76	76	75
Efficiency	84.3	89.5	90.1	89.6	88	86.1	88.6
Speed	1192	1183	1173	1163	1150	1134	1155
Line amperes	4.98	6.11	7.69	9.46	11.7	14.3	10.8

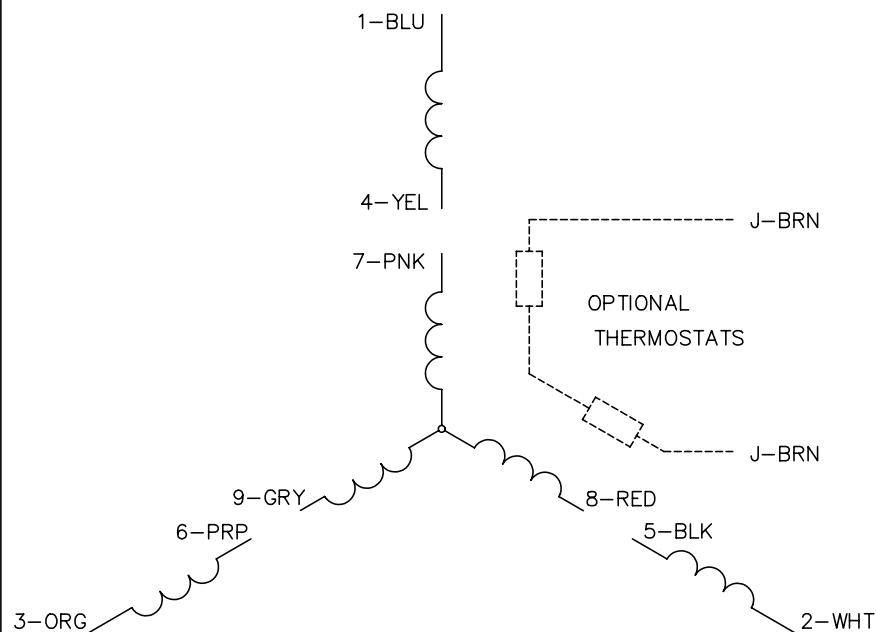
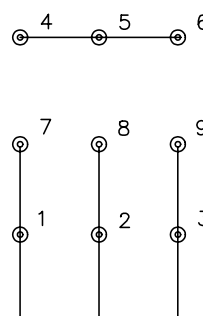
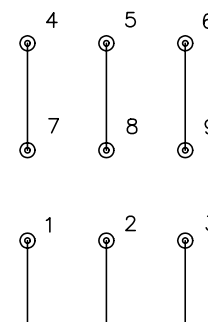
Performance Graph at 208V, 60Hz, 3.0HP Typical performance - Not guaranteed values



11/15/2017 ACPERF, record # 60478



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

900000

FILE: AAA00005140

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005