

BALDOR® • *RELIANCE*

Product Information Packet

IDGMP2501

G.M. K28KF 230V AC 10:1 INVERTER DUTY

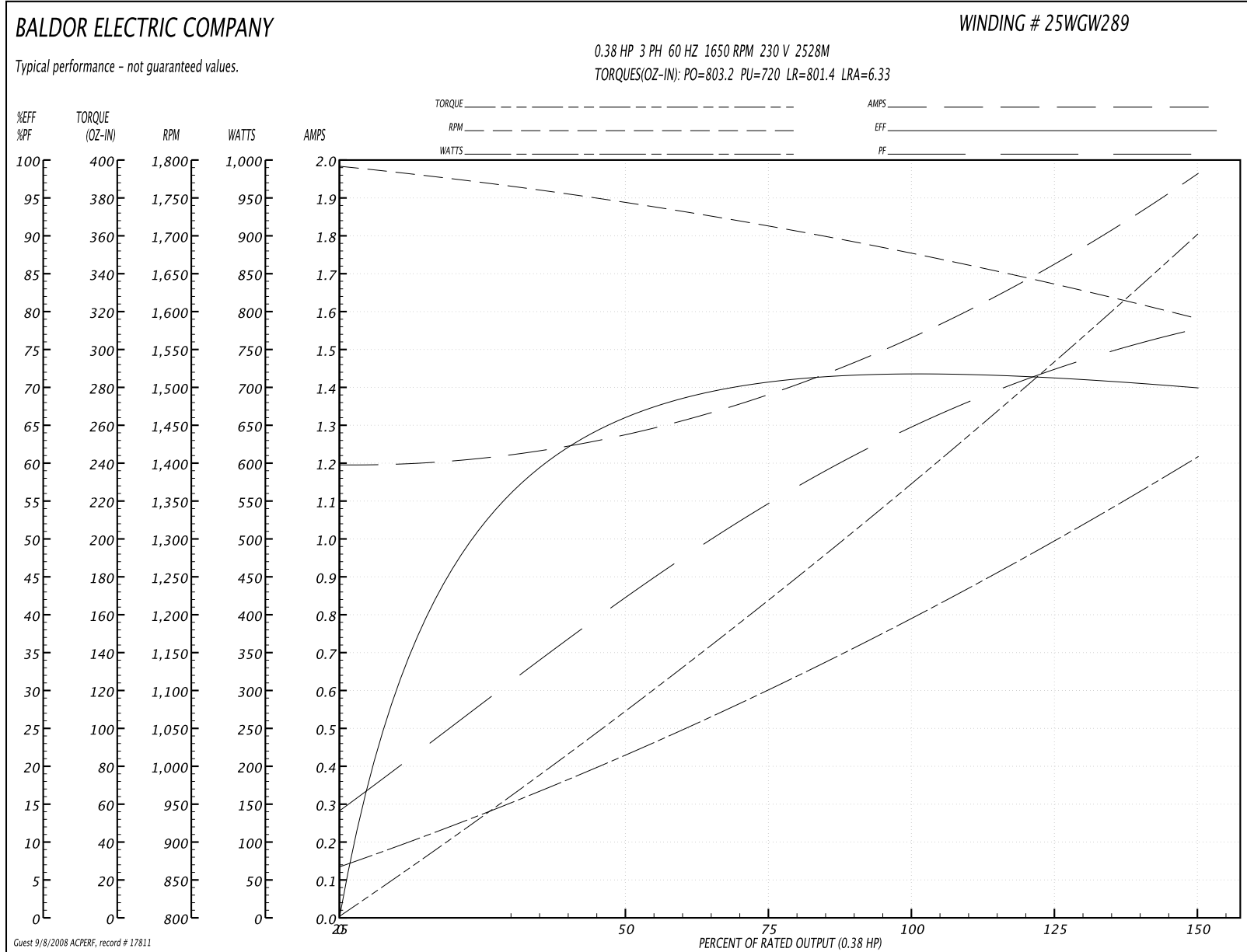
Product Detail							
Revision:	D	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod Type:	2528M	Elec. Spec:	25WGW289	CD Diagram:	CD0006A16
Enclosure	TEFC	Mfg Plant:		Mech Spec:		Layout:	25E752W289G2
Frame:	PSL	Mounting:		Poles:	04	Created Date:	03-17-2006
Base:		Rotation:	R	Insulation:	F	Eff. Date:	06-18-2008
Leads:	3#18 UL3321,150C		Y			Replaced By:	
Nameplate NP1598A13							
CAT.NO.	IDGMP2501	SER.NO					
SPEC.	25E752W289G2						
VOLTS	230						
MAG CUR	1.2	SL HZ	4.7				
RPM	1650	RPM MAX	3000				
HP	.38	HZ	60	PH	3	CLASS	F
FLA	1.5	WK2	0.0108				
RATING	40C AMB-CONT						
RATIO	10:1	OUT/RPM	165				
TORQ/IN LB	116						
CTSR	3:1						
APRV-CSA		APRV-CE		APRV-UL			

Parts List			
Product ID	Description	Quantity	List Price
SA140793	SA 25E752W289G2	1.000	323.00
RA130164	RA 25E752W289G2	1.000	270.00
LC0006	CONNECTION LABEL	1.000	3.00
HG0077A02C	HSG,PSL EP 25AC SHORT HOUSING	1.000	91.00
BMH1716	WASHER,PREC 1.175"X.751"X.02"	1.000	2.00
HW5002A45	WALDES TRUARC N5002-118 RETAINING RING	1.000	4.00
HW4600D28	SEAL,10X20X4MM TCM #03907815PSCW	1.000	2.00
HA4021A05	1/16 NPSF-HX SOC PIPE PLUG TAPER DRY SEA	1.000	2.00
HW3064E05	1/8 X 1/2 PIN DRIVE LOK TYPE H	1.000	2.00
CB0100B01	CB,EXR 25 .88 LEAD EXIT F1 POSITION	1.000	41.00
GS0120	GASKET,CONDUIT BOX FOR CB2000A17	1.000	2.00
15XN0832A08	SCREW PAN HD 08-32 X 1/2 (PHILLIPS)	2.000	2.00
CB0103A00-PA	CB0103A00 PAINTED	1.000	4.00
GS0121A01	GASKET, LID FOR CB0100B00	1.000	3.00
15XM0832A06	SCREW, 8-32X .375, THREAD FORMING	4.000	2.00
25EP2113A23	EP,25AC ODE GP EXR TEFC FAN COVER MTG &	1.000	67.00
HW5109A08	WASHER, WAVE SPRING FOR 30MM BORE SMALLE	1.000	3.00
55XT0632G03	6-32 X 0.187 RD HD PHILLIPS, SERRATED	1.000	2.00
HA3170A14	THRUBOLT, FLAT HD. #8-32 THDS X 6.687 LO	2.000	4.00
BFN3712	FAN,PM MOTOR STYLE R	1.000	19.00
25FH4006A11	HSG,FAN EXR W/2 HOLES FOR #8 THRU BOLTS	1.000	53.00
12XN0832A16	8-32 X 1.00" SLT HEX HD ZINC PLATED	2.000	2.00
SG0045A84	SHAFT,ASSY PSL SHORT INT1 2RED 2.0/5.0	1.000	120.00
SG0045A85	SHAFT,ASSY PSL SHORT OUT 2RED 0.0/2.0	1.000	144.00

Parts List (continued)			
Product ID	Description	Quantity	List Price
CG0012A01C	CAP, PSL GEAR HEAD	1.000	66.00
RM1020A22	O-RING .070 X 4.527	1.000	2.00
BH1163A03	BRG,SCE1212 INA NEEDLE ROLLER BBG1027	1.000	17.00
HW4600D39	SEAL, .750 X 1.250 X .250 SINGLE	1.000	2.00
60XM2520A12	SCREW,PAN TORX 1/4-20X.750 THREAD FORMIN	4.000	2.00
BMH1910	KEY 3/16X3/16X1 1/8 AUTO X	1.000	2.00
BMH4712	KEY LOCKING RING 3/4"	1.000	2.00
MG3000G01	EPOXY POWDER, GREY CHARCOAL	0.030	37.00
MJ1000B02	KLUBERSYNTH GH6-460 GEAR OIL	0.112	215.00
NP1598A13	NP,AC INV AD NONE V CE CSA UL KW GEAR MO	1.000	
LB5040	INSTRUCTION TAG, AC & DC	1.000	2.00
CPA1000	PACKING GROUP STD. SINGLE	1.000	7.00
LB1172A01	CUSTOM MTR CARTON LABEL LASER PRINTER	1.000	2.00

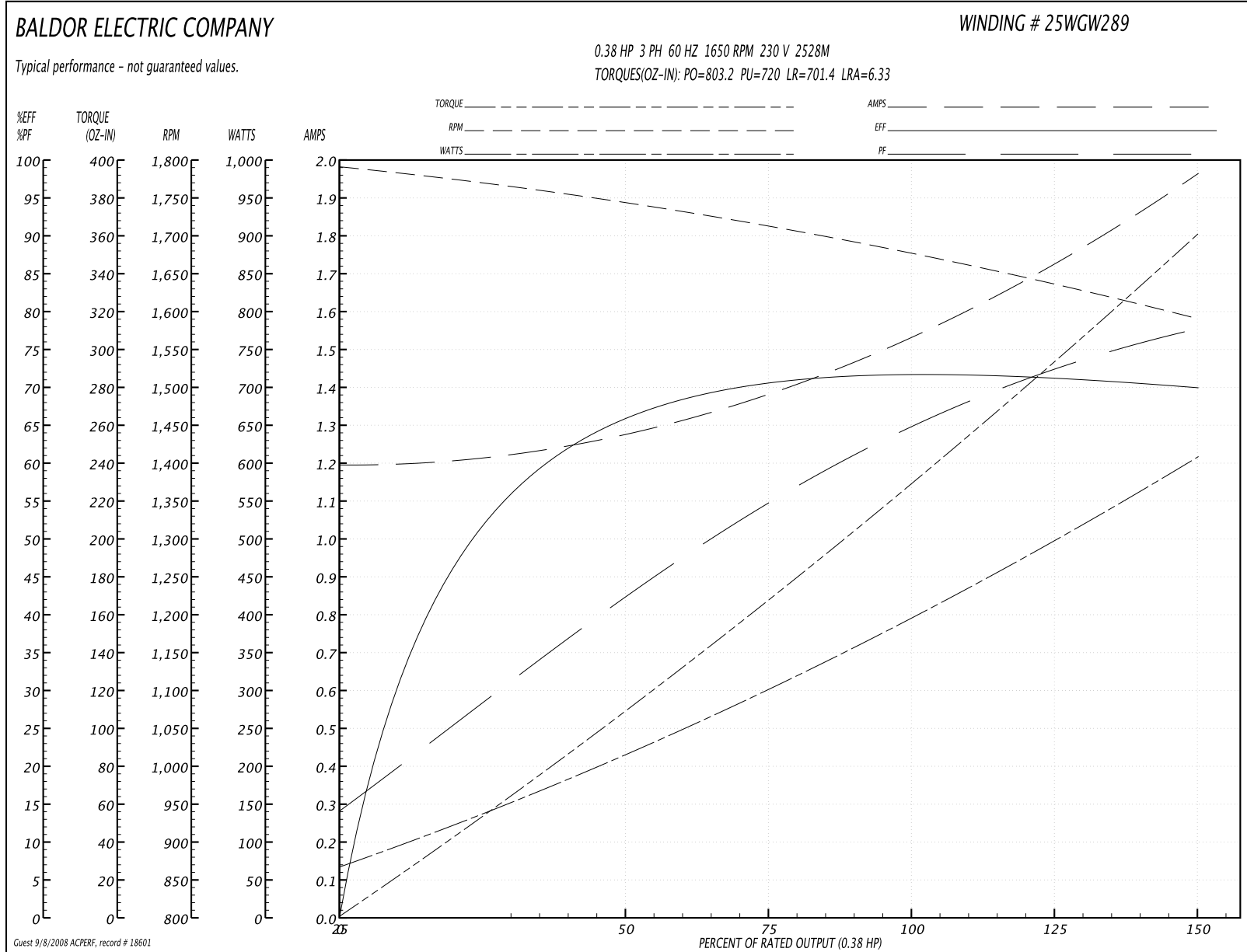
Performance Data at 230V, 60Hz, 0.38HP (Typical performance - Not guaranteed values)							
General Characteristics							
Full Load Torque:	228.6 OZ-IN			Start Configuration:	WYE		
No-Load Current:	1.19 Amps			Break-Down Torque:	803.2 OZ-IN		
Line-line Res. @ 25°C.:	13.578 Ohms A Ph / 0.0 Ohms B Ph			Pull-Up Torque:	720.0 OZ-IN		
Temp. Rise @ Rated Load:	44°C			Locked-Rotor Torque:	801.4 OZ-IN		
Temp. Rise @ S.F. Load:	57°C			Starting Current:	6.33 Amps		
Load Characteristics							
% of Rated Load:	25	50	75	100	125	150	S.F.
Power Factor:	30.0	43.0	55.0	64.0	72.0	78.0	72.0
Efficiency:	49.3	65.4	71.3	72.2	71.6	69.6	71.6
Speed:	1769.0	1743.0	1712.0	1678.0	1638.0	1589.0	1638.0
Line Amperes:	1.22	1.28	1.38	1.53	1.72	1.97	1.72

Performance Graph at 230V, 60Hz, 0.38HP (Typical performance - Not guaranteed values)



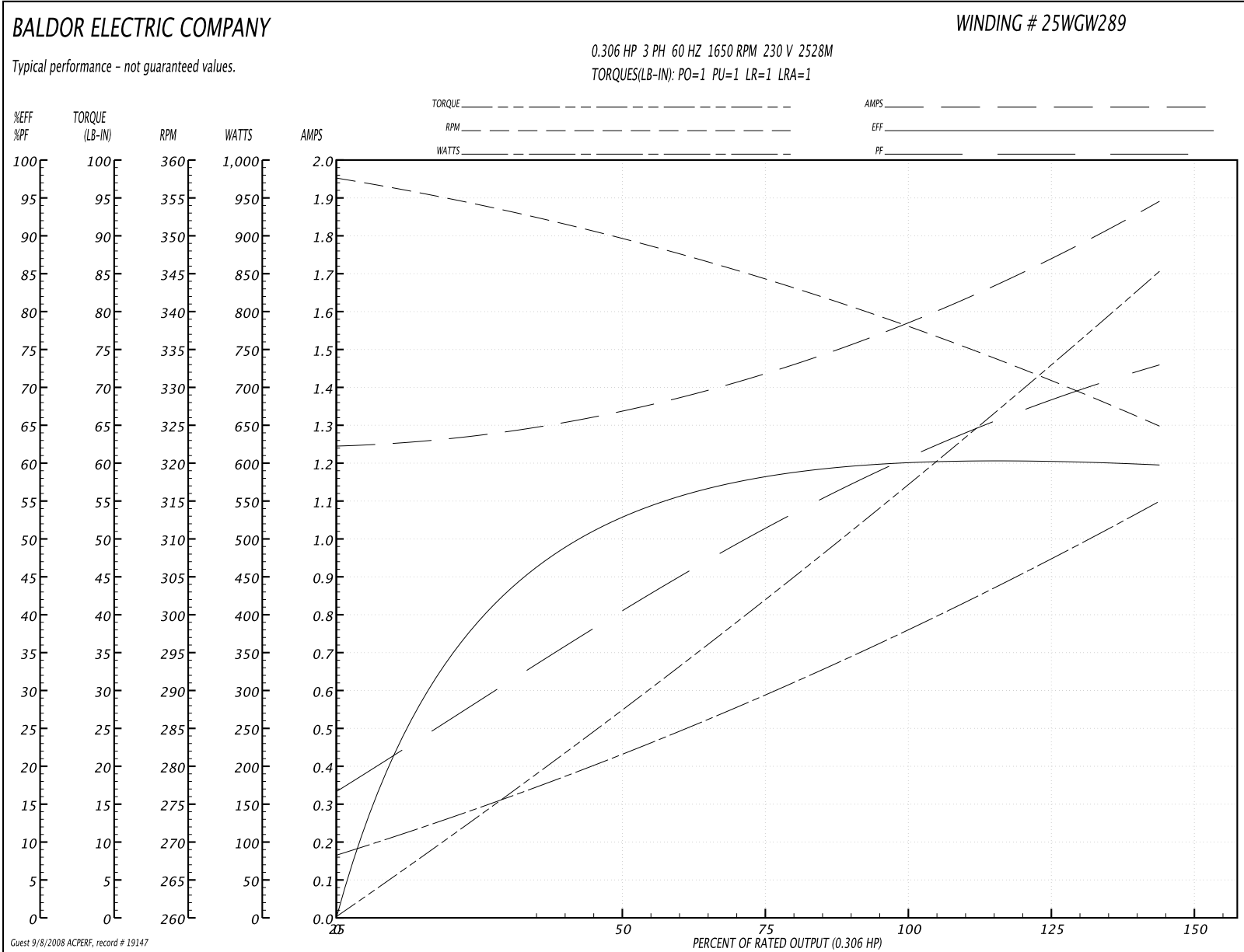
Performance Data at 230V, 60Hz, 0.38HP (Typical performance - Not guaranteed values)							
General Characteristics							
Full Load Torque:	228.6 OZ-IN			Start Configuration:	DOL		
No-Load Current:	1.19 Amps			Break-Down Torque:	803.2 OZ-IN		
Line-line Res. @ 25°C.:	13.577 Ohms A Ph / 0.0 Ohms B Ph			Pull-Up Torque:	720.0 OZ-IN		
Temp. Rise @ Rated Load:	68°C			Locked-Rotor Torque:	701.4 OZ-IN		
Temp. Rise @ S.F. Load:	87°C			Starting Current:	6.33 Amps		
Load Characteristics							
% of Rated Load:	25	50	75	100	125	150	S.F.
Power Factor:	30.0	43.0	55.0	64.0	72.0	78.0	72.0
Efficiency:	49.3	65.4	70.9	72.2	71.6	69.6	71.6
Speed:	1769.0	1743.0	1712.0	1678.0	1638.0	1589.0	1638.0
Line Amperes:	1.22	1.28	1.38	1.53	1.72	1.97	1.72

Performance Graph at 230V, 60Hz, 0.38HP (Typical performance - Not guaranteed values)



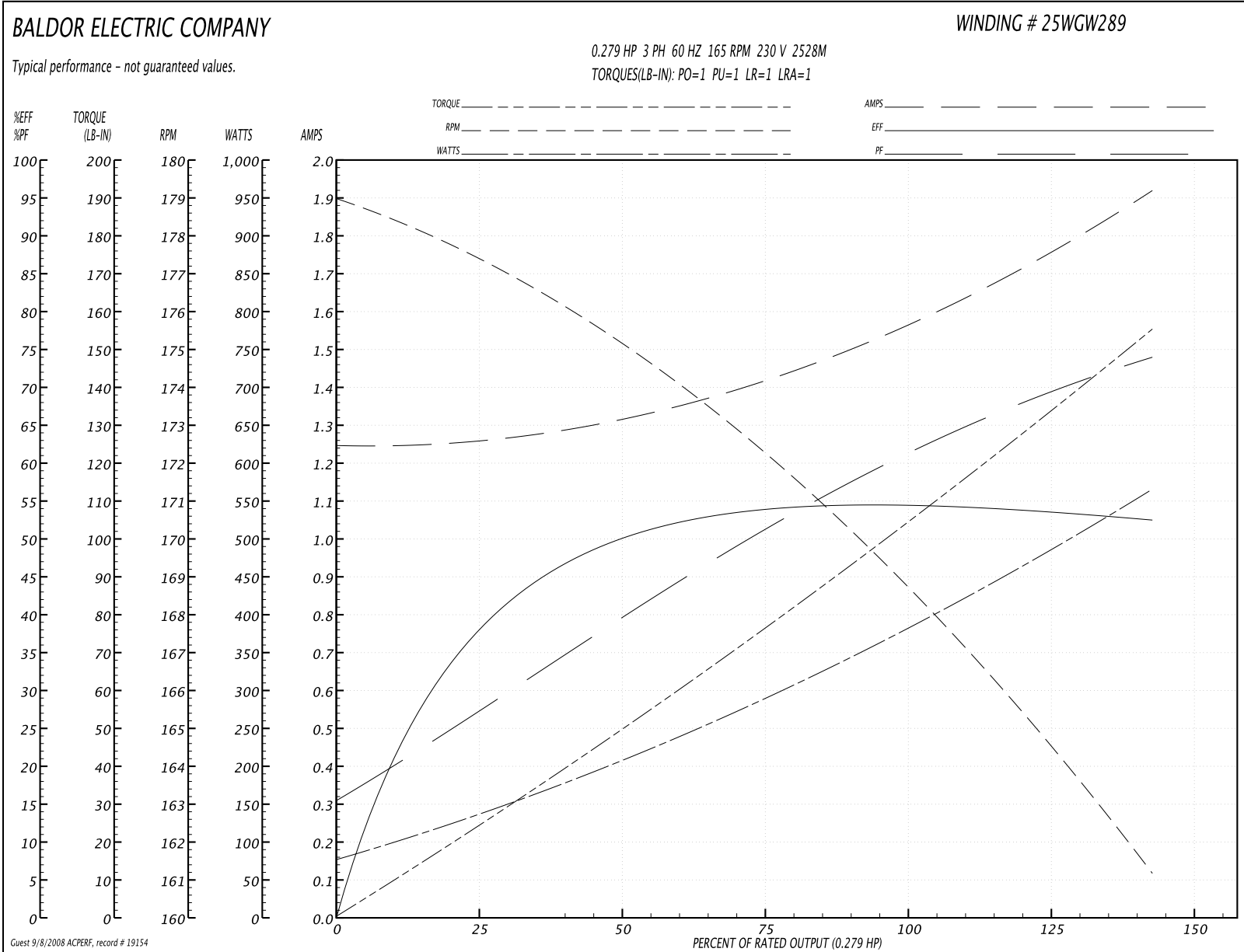
Performance Data at 230V, 60Hz, 0.306HP (Typical performance - Not guaranteed values)							
General Characteristics							
Full Load Torque:	57.0 LB-IN			Start Configuration:	DOL		
No-Load Current:	1.24 Amps			Break-Down Torque:	1.0 LB-IN		
Line-line Res. @ 25°C.:	13.577 Ohms A Ph / 0.0 Ohms B Ph			Pull-Up Torque:	1.0 LB-IN		
Temp. Rise @ Rated Load:	0°C			Locked-Rotor Torque:	1.0 LB-IN		
Temp. Rise @ S.F. Load:	0°C			Starting Current:	1.0 Amps		
Load Characteristics							
% of Rated Load:	25	50	75	100	125	150	S.F.
Power Factor:	29.0	42.0	52.0	61.0	68.0	73.0	68.0
Efficiency:	40.5	52.5	58.6	60.0	60.7	59.5	60.7
Speed:	353.7	348.9	343.8	338.9	331.6	324.6	332.0
Line Amperes:	1.28	1.35	1.44	1.57	1.71	1.9	1.71

Performance Graph at 230V, 60Hz, 0.306HP (Typical performance - Not guaranteed values)



Performance Data at 230V, 60Hz, 0.279HP (Typical performance - Not guaranteed values)							
General Characteristics							
Full Load Torque:	104.0 LB-IN			Start Configuration:	DOL		
No-Load Current:	1.24 Amps			Break-Down Torque:	1.0 LB-IN		
Line-line Res. @ 25°C.:	13.577 Ohms A Ph / 0.0 Ohms B Ph			Pull-Up Torque:	1.0 LB-IN		
Temp. Rise @ Rated Load:	0°C			Locked-Rotor Torque:	1.0 LB-IN		
Temp. Rise @ S.F. Load:	0°C			Starting Current:	1.0 Amps		
Load Characteristics							
% of Rated Load:	25	50	75	100	125	150	S.F.
Power Factor:	29.0	41.0	52.0	61.0	68.0	74.0	68.0
Efficiency:	37.6	50.5	53.1	55.2	54.5	51.9	54.5
Speed:	177.1	174.8	171.9	169.1	165.4	160.8	165.0
Line Amperes:	1.27	1.32	1.43	1.56	1.72	1.93	1.72

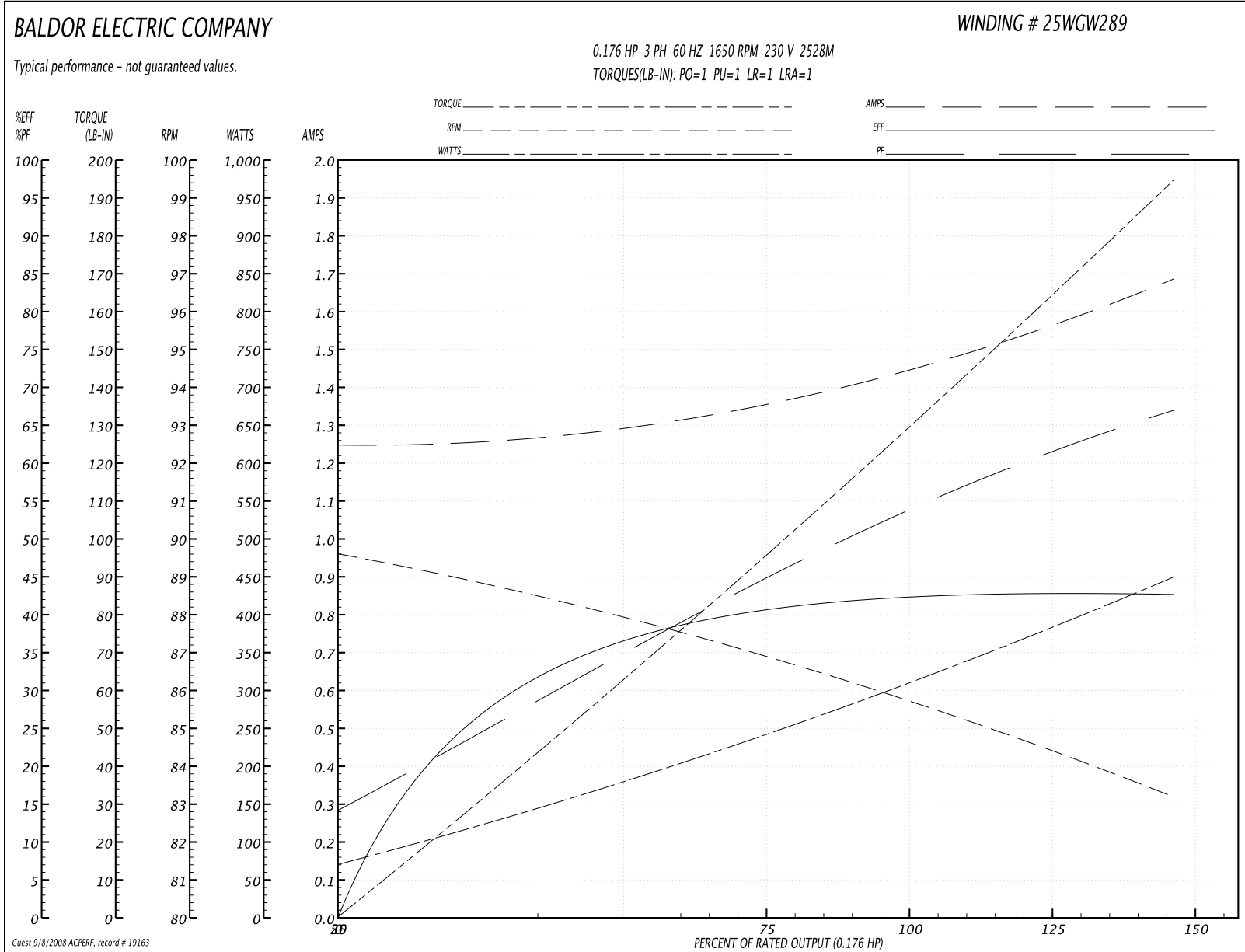
Performance Graph at 230V, 60Hz, 0.279HP (Typical performance - Not guaranteed values)



Performance Data at 230V, 60Hz, 0.176HP (Typical performance - Not guaranteed values)

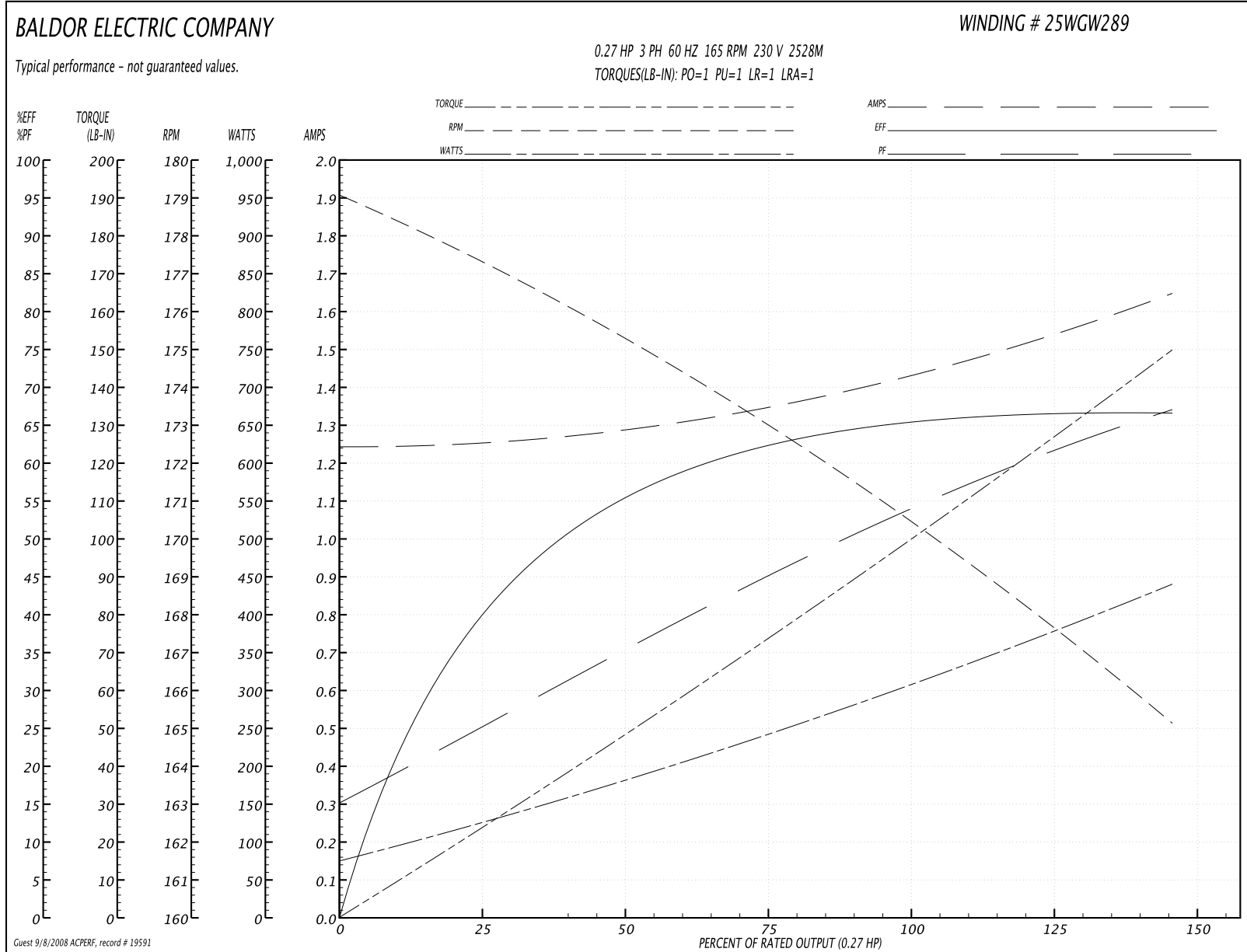
General Characteristics							
Full Load Torque:	130.0 LB-IN			Start Configuration:	WYE		
No-Load Current:	1.25 Amps			Break-Down Torque:	1.0 LB-IN		
Line-line Res. @ 25°C.:	13.578 Ohms A Ph / 0.0 Ohms B Ph			Pull-Up Torque:	1.0 LB-IN		
Temp. Rise @ Rated Load:	0°C			Locked-Rotor Torque:	1.0 LB-IN		
Temp. Rise @ S.F. Load:	0°C			Starting Current:	1.0 Amps		
Load Characteristics							
% of Rated Load:	25	50	75	100	125	150	S.F.
Power Factor:	25.0	35.0	45.0	55.0	61.0	67.0	61.0
Efficiency:	27.8	37.4	40.8	41.7	43.1	42.7	43.1
Speed:	88.8	87.9	86.9	85.6	84.5	83.2	85.0
Line Amperes:	1.25	1.3	1.36	1.45	1.55	1.69	1.55

Performance Graph at 230V, 60Hz, 0.176HP (Typical performance - Not guaranteed values)



Performance Data at 230V, 60Hz, 0.27HP (Typical performance - Not guaranteed values)							
General Characteristics							
Full Load Torque:	100.0 LB-IN			Start Configuration:	WYE		
No-Load Current:	1.24 Amps			Break-Down Torque:	1.0 LB-IN		
Line-line Res. @ 25°C.:	12.854 Ohms A Ph / 0.0 Ohms B Ph			Pull-Up Torque:	1.0 LB-IN		
Temp. Rise @ Rated Load:	0°C			Locked-Rotor Torque:	1.0 LB-IN		
Temp. Rise @ S.F. Load:	0°C			Starting Current:	1.0 Amps		
Load Characteristics							
% of Rated Load:	25	50	75	100	125	150	S.F.
Power Factor:	26.0	36.0	45.0	53.0	63.0	66.0	63.0
Efficiency:	39.8	56.4	63.5	66.6	64.2	69.6	64.2
Speed:	177.2	175.1	173.0	170.5	167.7	165.2	168.0
Line Amperes:	1.26	1.29	1.35	1.43	1.53	1.65	1.53

Performance Graph at 230V, 60Hz, 0.27HP (Typical performance - Not guaranteed values)



Performance Data at 230V, 60Hz, 0.38HP (Typical performance - Not guaranteed values)

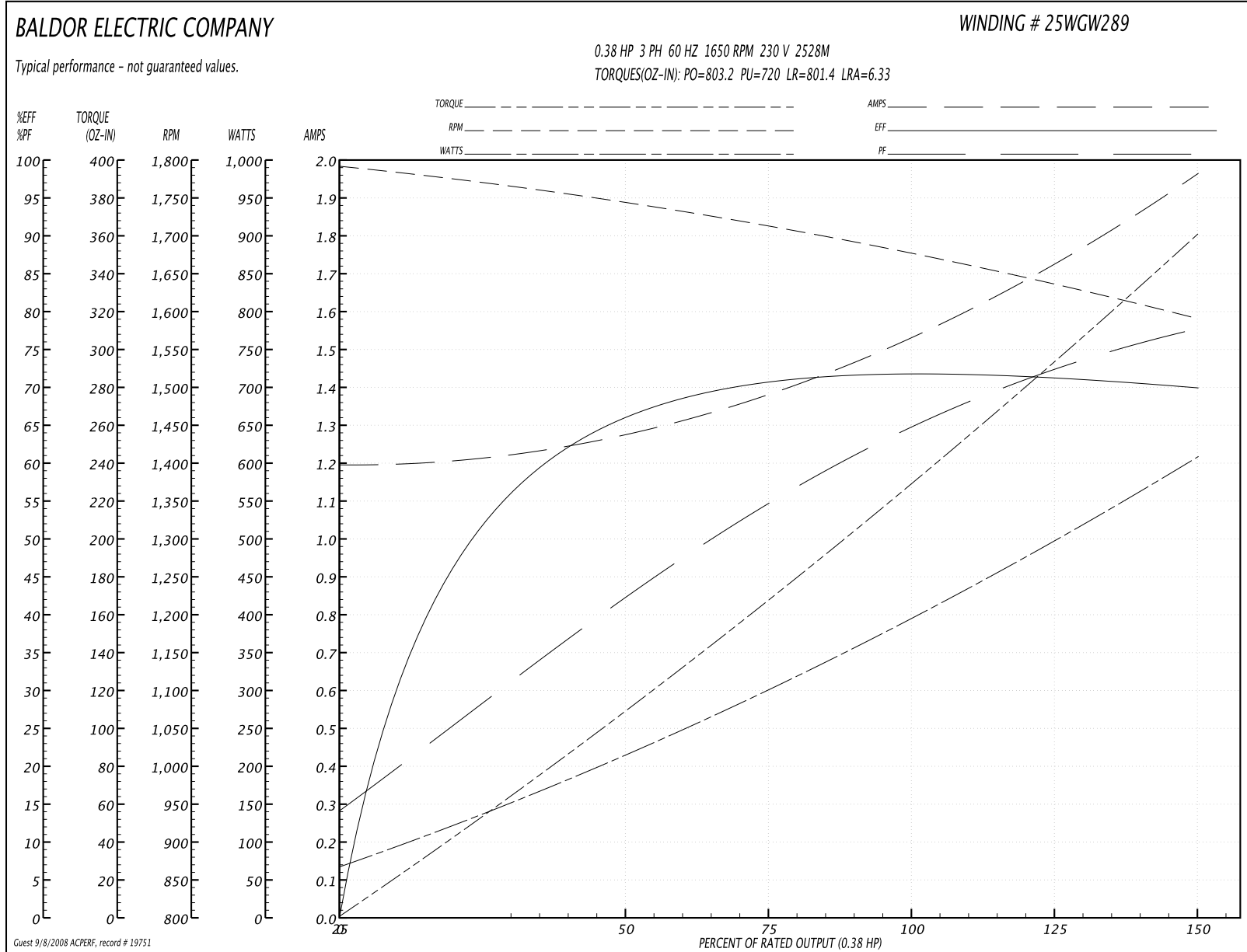
General Characteristics

Full Load Torque:	228.6 OZ-IN	Start Configuration:	WYE
No-Load Current:	1.19 Amps	Break-Down Torque:	803.2 OZ-IN
Line-line Res. @ 25°C.:	13.578 Ohms A Ph / 0.0 Ohms B Ph	Pull-Up Torque:	720.0 OZ-IN
Temp. Rise @ Rated Load:	44°C	Locked-Rotor Torque:	801.4 OZ-IN
Temp. Rise @ S.F. Load:	57°C	Starting Current:	6.33 Amps

Load Characteristics

% of Rated Load:	25	50	75	100	125	150	S.F.
Power Factor:	30.0	43.0	55.0	64.0	72.0	78.0	72.0
Efficiency:	49.3	65.4	71.3	72.2	71.6	69.6	71.6
Speed:	1769.0	1743.0	1712.0	1678.0	1638.0	1589.0	1638.0
Line Amperes:	1.22	1.28	1.38	1.53	1.72	1.97	1.72

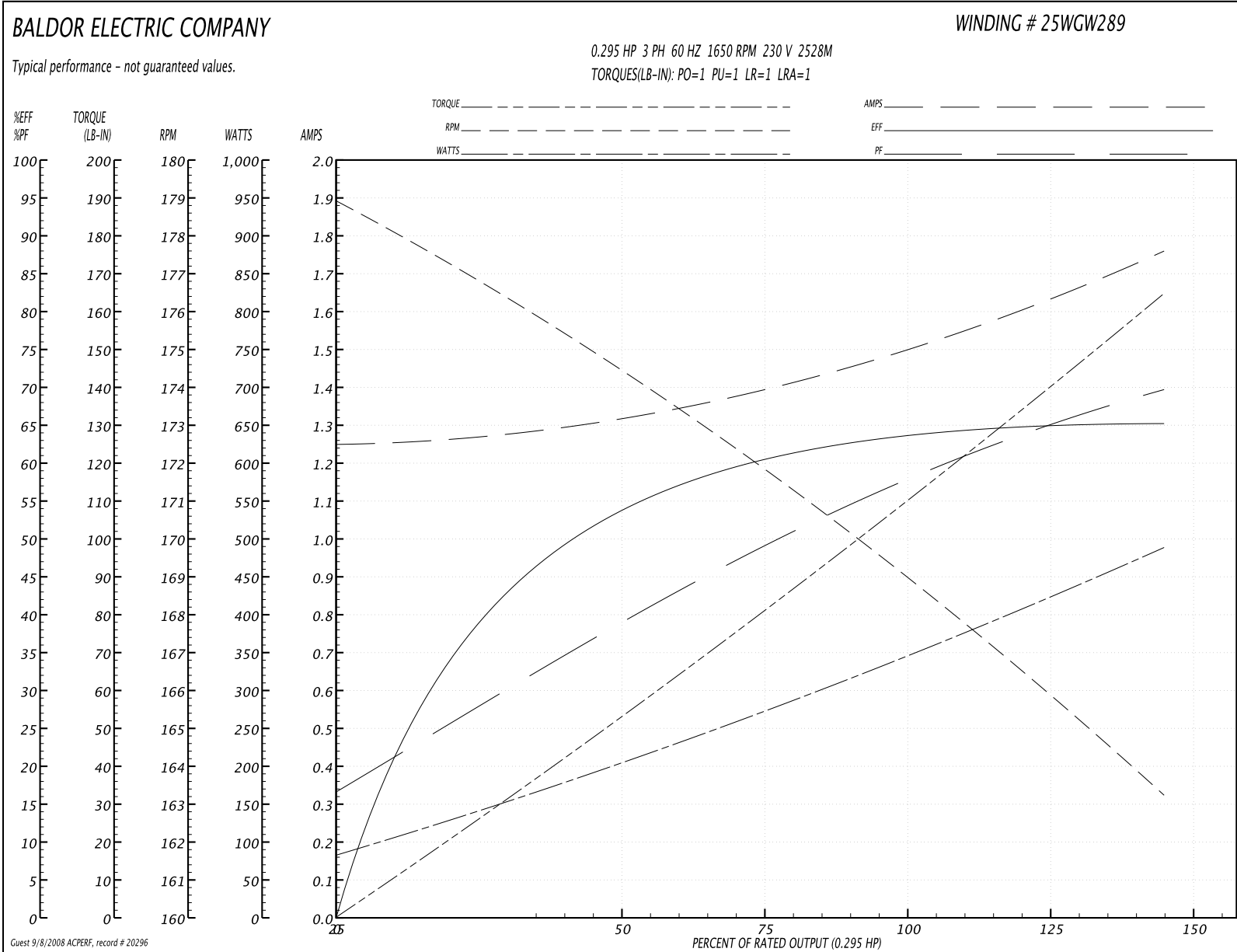
Performance Graph at 230V, 60Hz, 0.38HP (Typical performance - Not guaranteed values)



Performance Data at 230V, 60Hz, 0.295HP (Typical performance - Not guaranteed values)

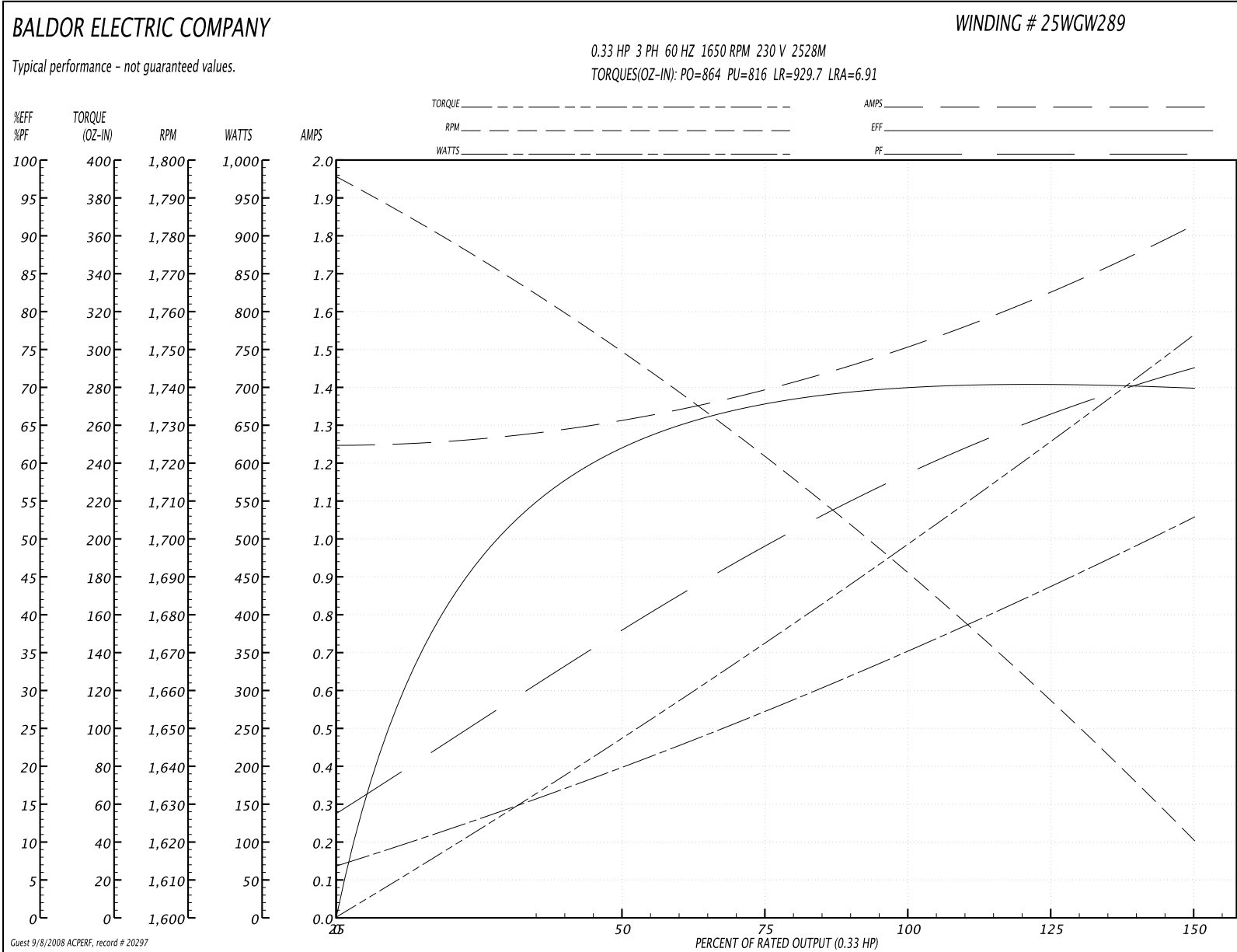
General Characteristics							
Full Load Torque:	110.0 LB-IN			Start Configuration:	WYE		
No-Load Current:	1.25 Amps			Break-Down Torque:	1.0 LB-IN		
Line-line Res. @ 25°C.:	13.578 Ohms A Ph / 0.0 Ohms B Ph			Pull-Up Torque:	1.0 LB-IN		
Temp. Rise @ Rated Load:	0°C			Locked-Rotor Torque:	1.0 LB-IN		
Temp. Rise @ S.F. Load:	0°C			Starting Current:	1.0 Amps		
Load Characteristics							
% of Rated Load:	25	50	75	100	125	150	S.F.
Power Factor:	28.0	40.0	49.0	58.0	64.0	70.0	64.0
Efficiency:	39.9	53.8	60.9	63.8	65.1	65.1	65.1
Speed:	176.8	174.2	171.7	169.0	166.2	163.2	166.0
Line Amperes:	1.27	1.32	1.4	1.5	1.62	1.76	1.62

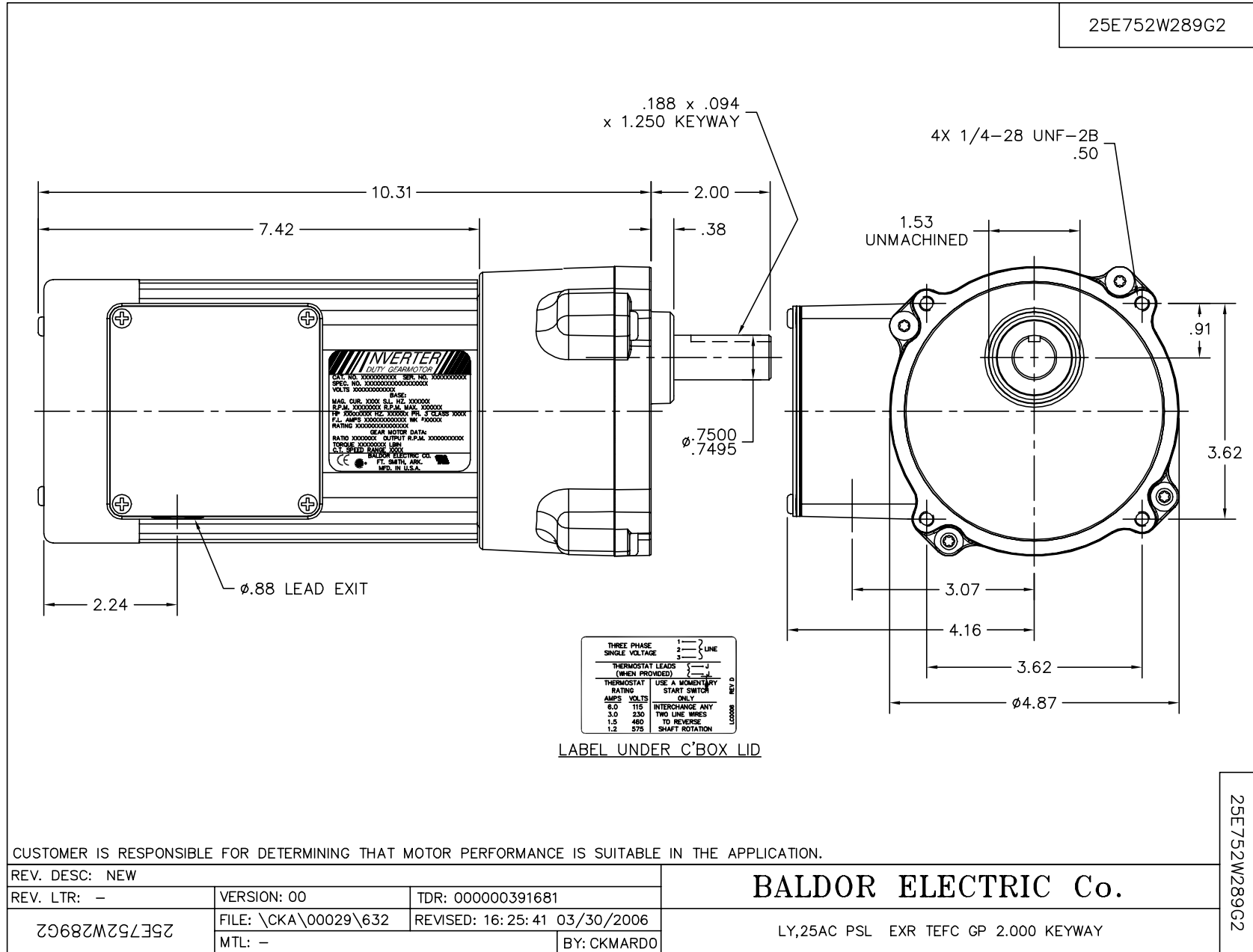
Performance Graph at 230V, 60Hz, 0.295HP (Typical performance - Not guaranteed values)



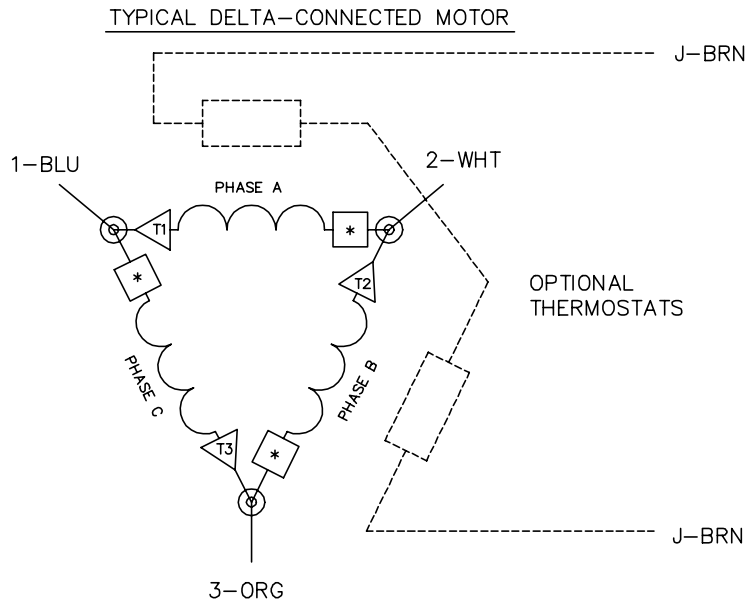
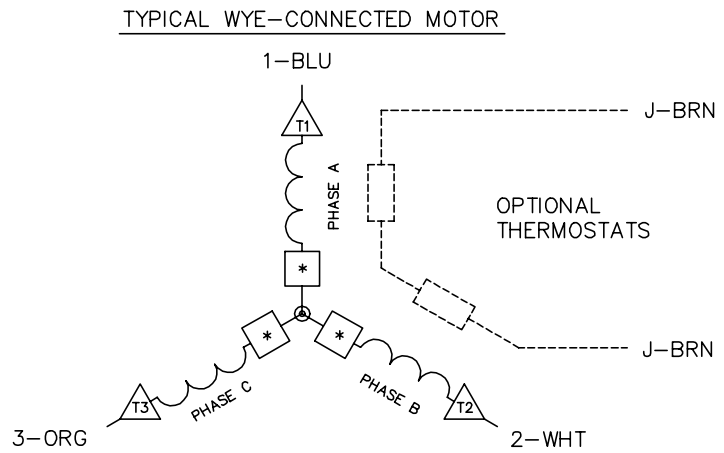
Performance Data at 230V, 60Hz, 0.33HP (Typical performance - Not guaranteed values)							
General Characteristics							
Full Load Torque:	197.4 OZ-IN			Start Configuration:	WYE		
No-Load Current:	1.25 Amps			Break-Down Torque:	864.0 OZ-IN		
Line-line Res. @ 25°C.:	13.404 Ohms A Ph / 0.0 Ohms B Ph			Pull-Up Torque:	816.0 OZ-IN		
Temp. Rise @ Rated Load:	0°C			Locked-Rotor Torque:	929.7 OZ-IN		
Temp. Rise @ S.F. Load:	0°C			Starting Current:	6.91 Amps		
Load Characteristics							
% of Rated Load:	25	50	75	100	125	150	S.F.
Power Factor:	26.0	38.0	49.0	58.0	66.0	73.0	66.0
Efficiency:	47.6	61.7	67.7	70.2	70.7	69.7	70.7
Speed:	1775.0	1748.0	1723.0	1690.0	1656.0	1621.0	1656.0
Line Amperes:	1.26	1.31	1.4	1.51	1.65	1.83	1.65

Performance Graph at 230V, 60Hz, 0.33HP (Typical performance - Not guaranteed values)





CD0006A16



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.
6. = MAGNET WIRE COIL END WITH I.D. NUMBER.
- = MAGNET WIRE COIL END WITH I.D. SYMBOL.
7. REFERENCE CW PRINT FOR NEST TO NEST CROSSOVER CONNECTIONS.

REV. DESC: ADD NOTE 7 PER JF			
REV. LTR: B	VERSION: 02	TDR: 000000444134	
91V900000	FILE: \CKA\00024\426	REVISED: 12:18:17 10/23/2007	
	MTL: -	BY: CKRONSO	

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3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED, CK

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