

BALDOR® • RELIANCE

Product Information Packet

GP3303

G.M. F27UA 90VDC 20:1 918 GEARING

Part Detail							
Revision:	U	Status:	PRD/A	Change #:		Proprietary:	No
Type:		Prod. Type:		Elec. Spec:		CD Diagram:	
Enclosure:	TENV	Mfg Plant:		Mech. Spec:		Layout:	33-2408Z148G1K3
Frame:	JH	Mounting:		Poles:		Created Date:	
Base:		Rotation:	R	Insulation:		Eff. Date:	10-24-2013
Field Type:		Literature:		Elec. Diagram:		Replaced By:	

Nameplate NP1286A06			
SPEC.	33-2408Z148G1K3		
R.P.M.	125	DATE CODE	DATE CODE
RATIO	20:1	TORQ/IN LB	145

Parts List		
Part Number	Description	Quantity
SR000947	SR 33-2408Z148G1K3	1.000 EA
33-2408Z148G1	.5HP,2500RPM,DC,42CZ,3327P,TENV,F1,N	1.000 EA
HW3081C06	3/32 X 5/8 GROOVE PIN TYPE A,THRU HARDEN	1.000 EA
MJ5019A01	ADHESIVE LOCTITE #680 WAS BAD4525	0.010 EA
HA6032A04G	ADAPTER, MACH F/BOEHM MACH'D. FOR SEAL	1.000 EA
HW4600B91	SEAL, TCM #06132TB .625X1.375X.252	1.000 EA
10XN2520A16	1/4-20 X 1 HEX HEAD CAP SCR, ZINC PLATED	4.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 EA
HG0039A04G	HSG,JK EX CLOSED W/ GRAY POWDER COAT	1.000 EA
BS0114A01G	BS,JH OP 6204STD OPEN W/ GRAY POWDER COA	1.000 EA
HW5002A57	WALDES N5002-187 BEVELED 1.850	1.000 EA
60XM0832A08	SCREW, PAN TORX 8-32X.500 THREAD FORMING	4.000 EA
RM1020A21	O-RING,3.240 I.D. X .052 BUNA-N (NITRILE	1.000 EA
WM0055A17	WORM,JH 20.0 INP PINNED ON (918 GEOME	1.000 EA
MJ1000B02	KLUB. GH6-460 GEAR OIL 1 GALLON	0.030 GA
HW5109A10	WASHER, WAVE SPRING FOR 47MM BORE SMALLE	1.000 EA
HW4600D39	SEAL, .750 X 1.250 X .250 SINGLE	1.000 EA
RM1057	RUBBER SQUARE RING 1.424 I.D.	1.000 EA
19XN1032A12	SCREW, HEX WASHER HEAD, #10-32 X .750	4.000 EA
HA1194B01	BLADDER,CJK EXPANSION	1.000 EA
15XM0632A06	SCREW, 6-32X .375, THREAD FORMING	3.000 EA
HW2501D10	KEY, 3/16 SQ X 1.000	1.000 EA
HA4021A05	1/16 NPSF-HX SOC PIPE PLUG TAPER DRY SEA	1.000 EA
NP1286A06	NP,GR AD NONE H	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
CPA1001	PACKING GROUP OVERSIZED SINGLE	1.000 EA
LB1171	LABEL CARTON 6X6 ON LINE BLANK ROLLS	1.000 EA
PK3090	2" X 7 1/8 X 6 1/2" CRADLE	1.000 EA
ME4000	.375-.75" DIA.#SW-04 WOVEN SHAFT PROTECT	0.125 FT

Accessories		
Part Number	Description	Multiplier
BC140	CS2934A,120/240VAC .5/1-HP SCR CTL,NEMA	E9
BC140-FBR	3479G KBMD-240D w/FBR CN3000A54	E9
BC141	CHASSIS MOUNT FSCN 3000A20	E9
BR0025	PLUG IN RESISTOR,0.025 ohm	E9

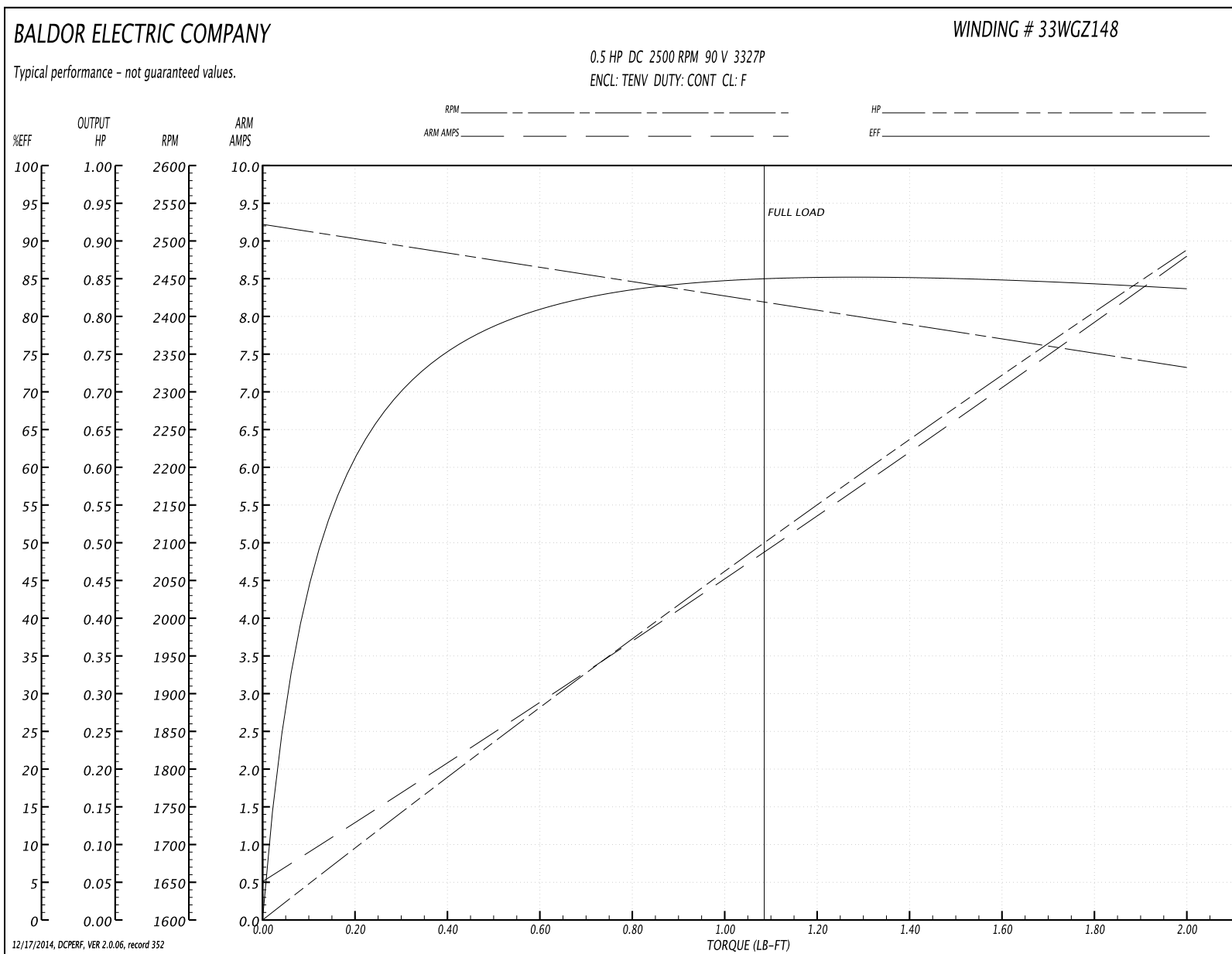
Performance Data at 90.0 Arm V, 0.5HP (Typical performance - Not guaranteed values)**General Characteristics**

Armature Resistance:	0.664 ohms	Commutating Winding Resistance:	
Series Winding Resistance:		Shunt Winding Resistance:	
Armature Inductance:	5.119 mH	Armature Inertia:	
Maximum Rated RPM With Field Weakening:		Maximum Allowable Inrush Amps:	

Load Characteristics

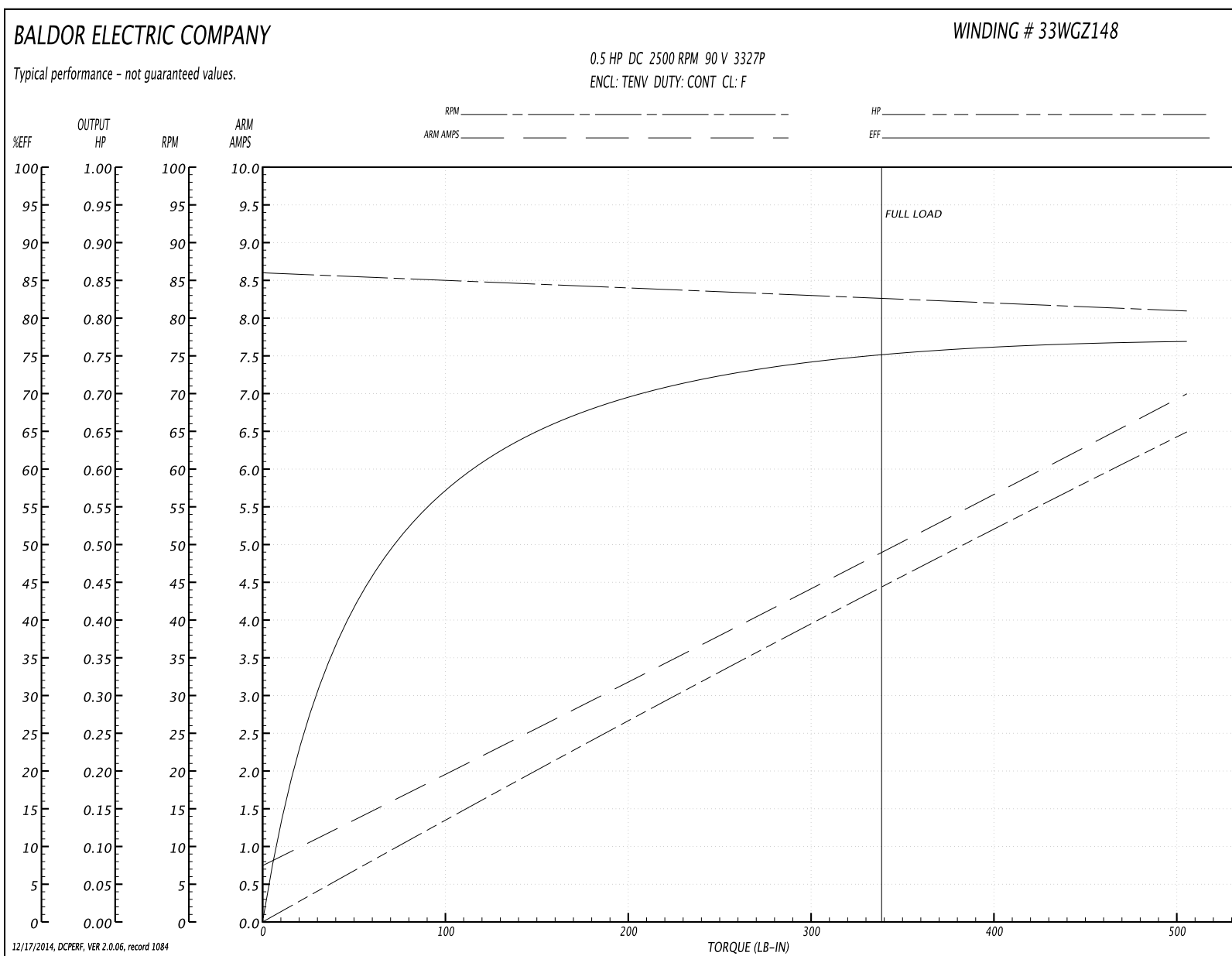
Load Point	1	2	3	4	5	6	7
Armature Amps:	0.5	2.5	3.5	4.6	5.4	6.7	8.8
RPM:	2526.0	2469.0	2447.0	2426.0	2415.0	2375.0	2332.0
Torque (LB-FT):	0.0	0.5	0.75	1.0	1.25	1.5	2.0

Performance Graph at 90.0 Arm V, 0.5HP Typical performance - Not guaranteed values



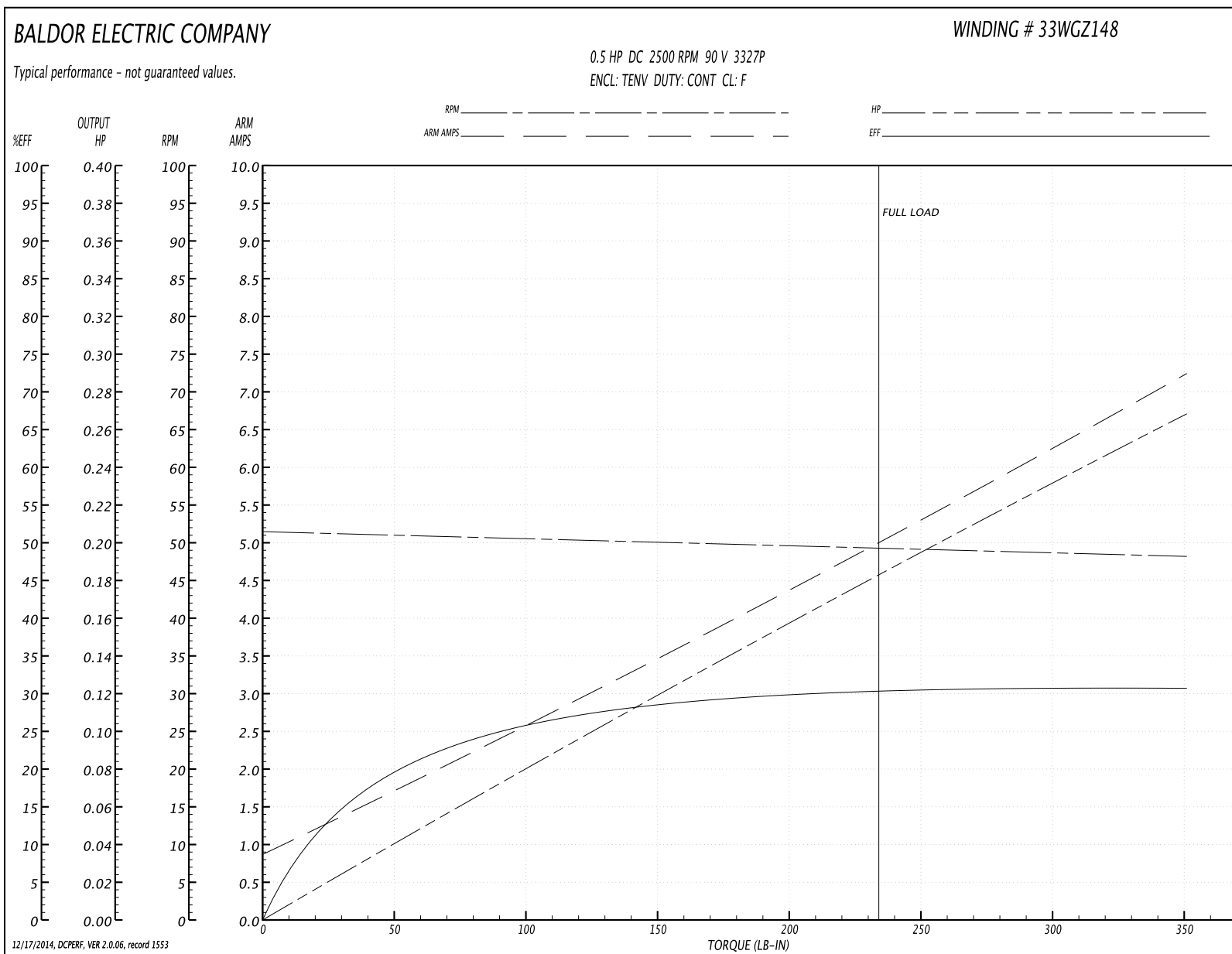
Performance Data at 90.0 Arm V, 0.5HP (Typical performance - Not guaranteed values)							
General Characteristics							
Armature Resistance:		0.664 ohms		Commutating Winding Resistance:			
Series Winding Resistance:				Shunt Winding Resistance:			
Armature Inductance:		5.119 mH		Armature Inertia:			
Maximum Rated RPM With Field Weakening:				Maximum Allowable Inrush Amps:			
Load Characteristics							
Load Point	1	2	3	4	5	6	7
Armature Amps:	0.76	1.75	2.79	3.83	4.88	5.94	6.99
RPM:	85.9	85.4	84.2	83.4	82.6	81.9	80.9
Torque (LB-IN):	0.0	84.25	168.5	252.8	337.0	421.3	505.5

Performance Graph at 90.0 Arm V, 0.5HP Typical performance - Not guaranteed values



Performance Data at 90.0 Arm V, 0.5HP (Typical performance - Not guaranteed values)							
General Characteristics							
Armature Resistance:	0.664 ohms			Commutating Winding Resistance:			
Series Winding Resistance:				Shunt Winding Resistance:			
Armature Inductance:	5.119 mH			Armature Inertia:			
Maximum Rated RPM With Field Weakening:				Maximum Allowable Inrush Amps:			
Load Characteristics							
Load Point	1	2	3	4	5	6	7
Armature Amps:	0.92	1.79	2.85	3.96	5.0	6.15	7.21
RPM:	51.4	51.0	50.4	49.8	49.3	48.7	48.2
Torque (LB-IN):	0.0	58.5	117.0	175.5	234.0	292.5	351.0

Performance Graph at 90.0 Arm V, 0.5HP Typical performance - Not guaranteed values



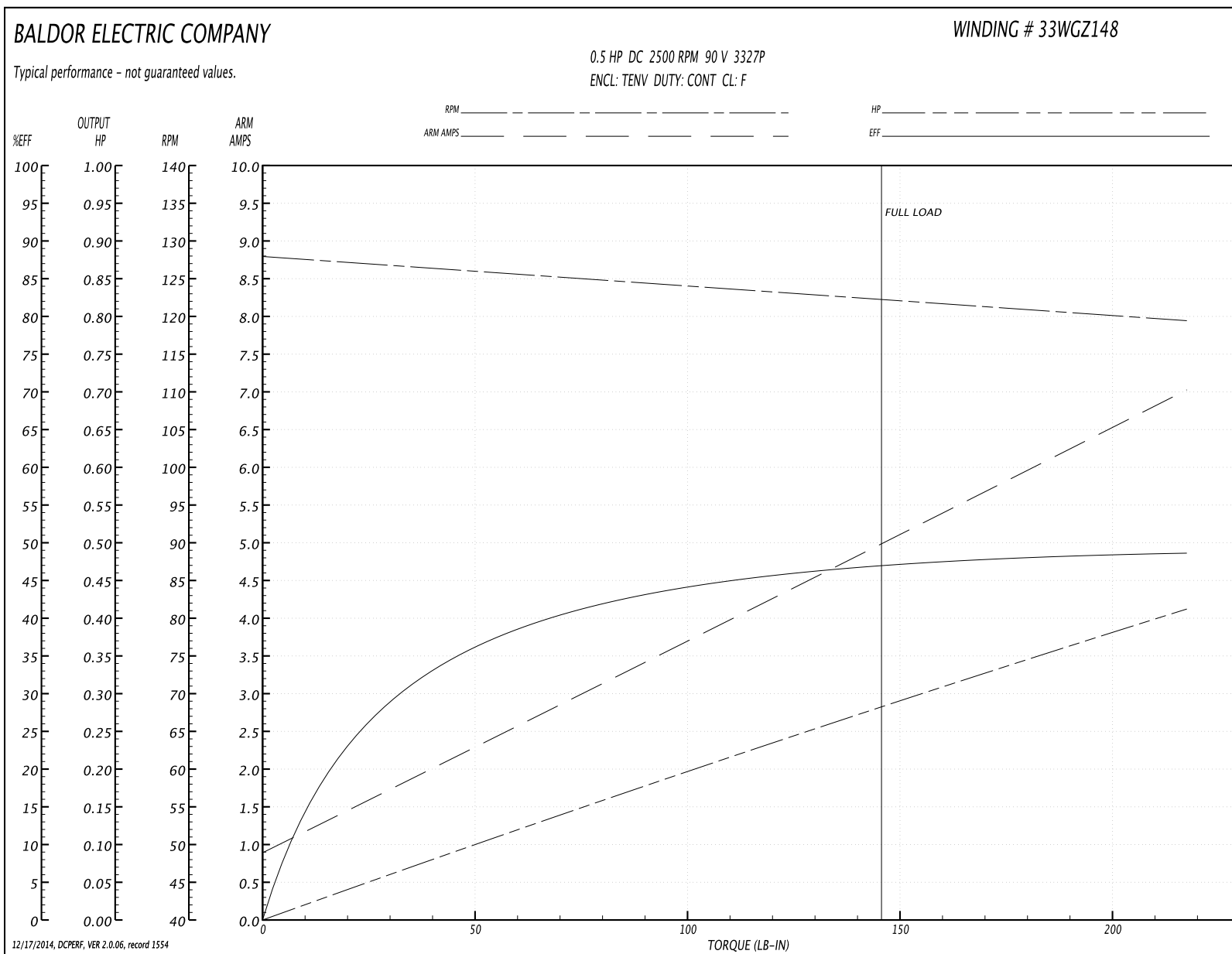
Performance Data at 90.0 Arm V, 0.5HP (Typical performance - Not guaranteed values)**General Characteristics**

Armature Resistance:	0.664 ohms	Commutating Winding Resistance:	
Series Winding Resistance:		Shunt Winding Resistance:	
Armature Inductance:	5.119 mH	Armature Inertia:	
Maximum Rated RPM With Field Weakening:		Maximum Allowable Inrush Amps:	

Load Characteristics

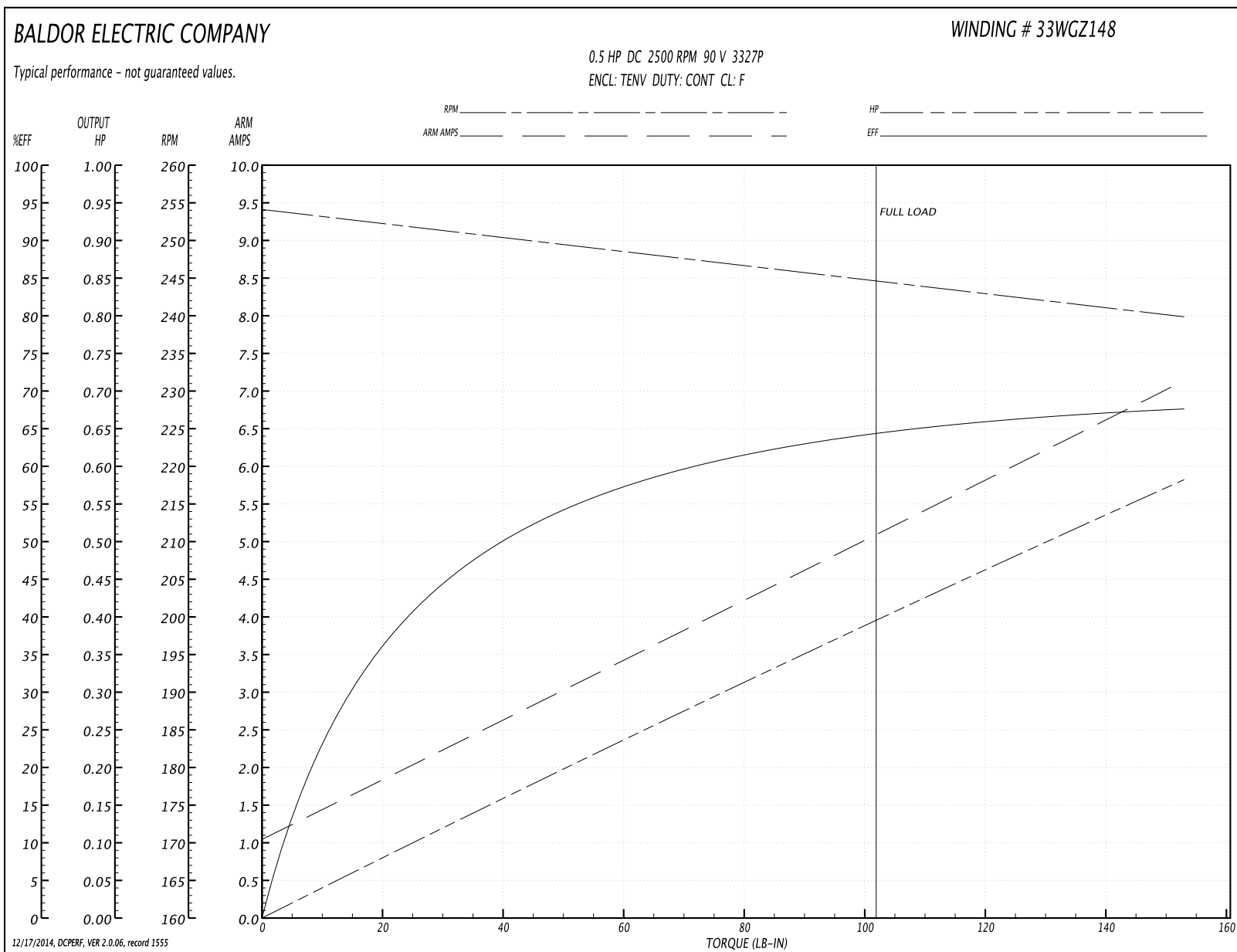
Load Point	1	2	3	4	5	6	7
Armature Amps:	0.89	1.92	2.93	3.9	5.0	6.0	7.02
RPM:	128.0	126.3	125.1	123.6	122.8	120.8	119.2
Torque (LB-IN):	0.0	36.3	72.5	108.8	145.0	181.3	217.5

Performance Graph at 90.0 Arm V, 0.5HP Typical performance - Not guaranteed values



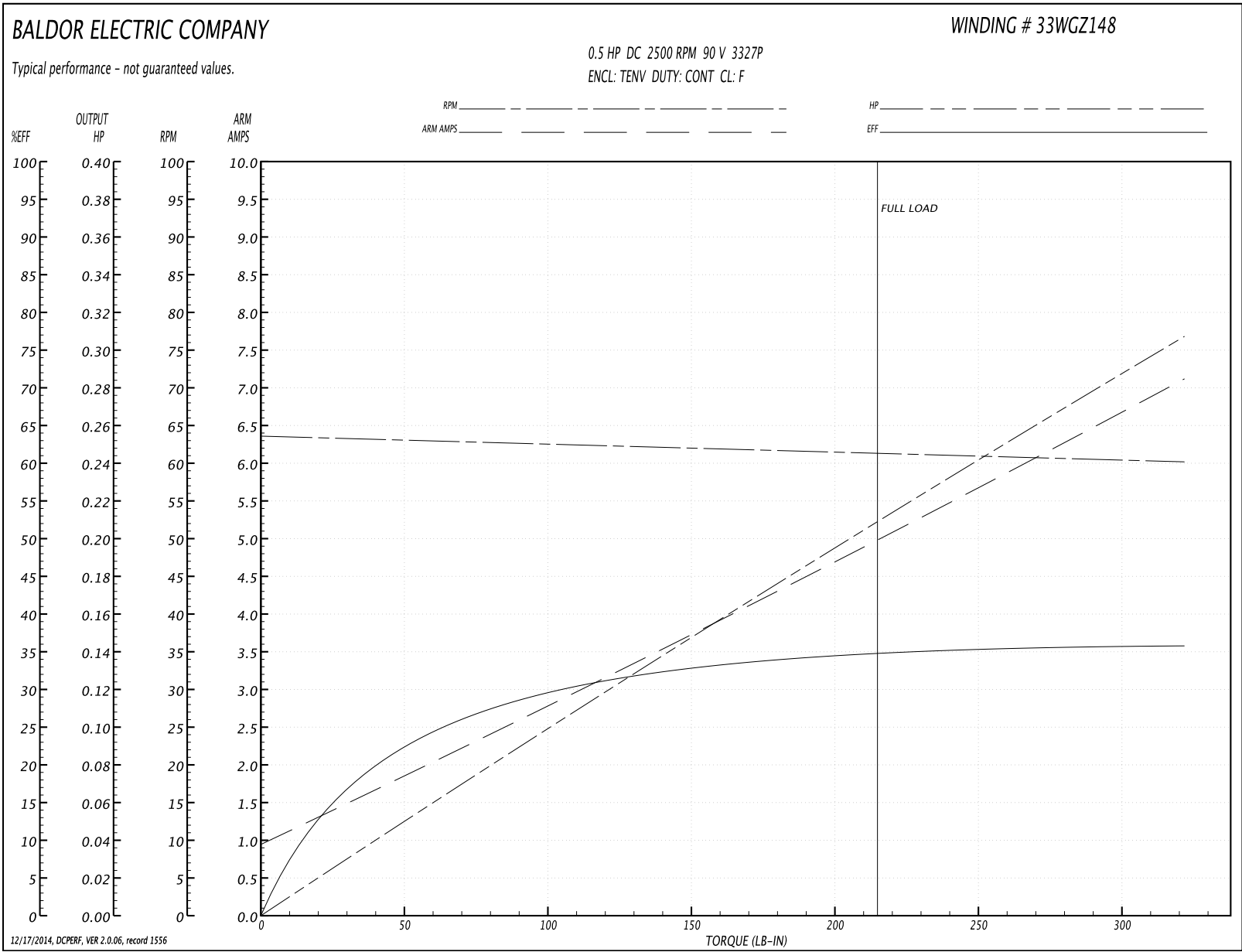
Performance Data at 90.0 Arm V, 0.5HP (Typical performance - Not guaranteed values)							
General Characteristics							
Armature Resistance:		0.664 ohms		Commutating Winding Resistance:			
Series Winding Resistance:				Shunt Winding Resistance:			
Armature Inductance:		5.119 mH		Armature Inertia:			
Maximum Rated RPM With Field Weakening:				Maximum Allowable Inrush Amps:			
Load Characteristics							
Load Point	1	2	3	4	5	6	7
Armature Amps:	1.02	2.11	3.06	4.05	5.1	6.12	7.14
RPM:	254.1	252.0	249.3	246.9	244.4	241.9	240.3
Torque (LB-IN):	0.0	25.5	51.0	76.5	102.0	127.5	153.0

Performance Graph at 90.0 Arm V, 0.5HP Typical performance - Not guaranteed values



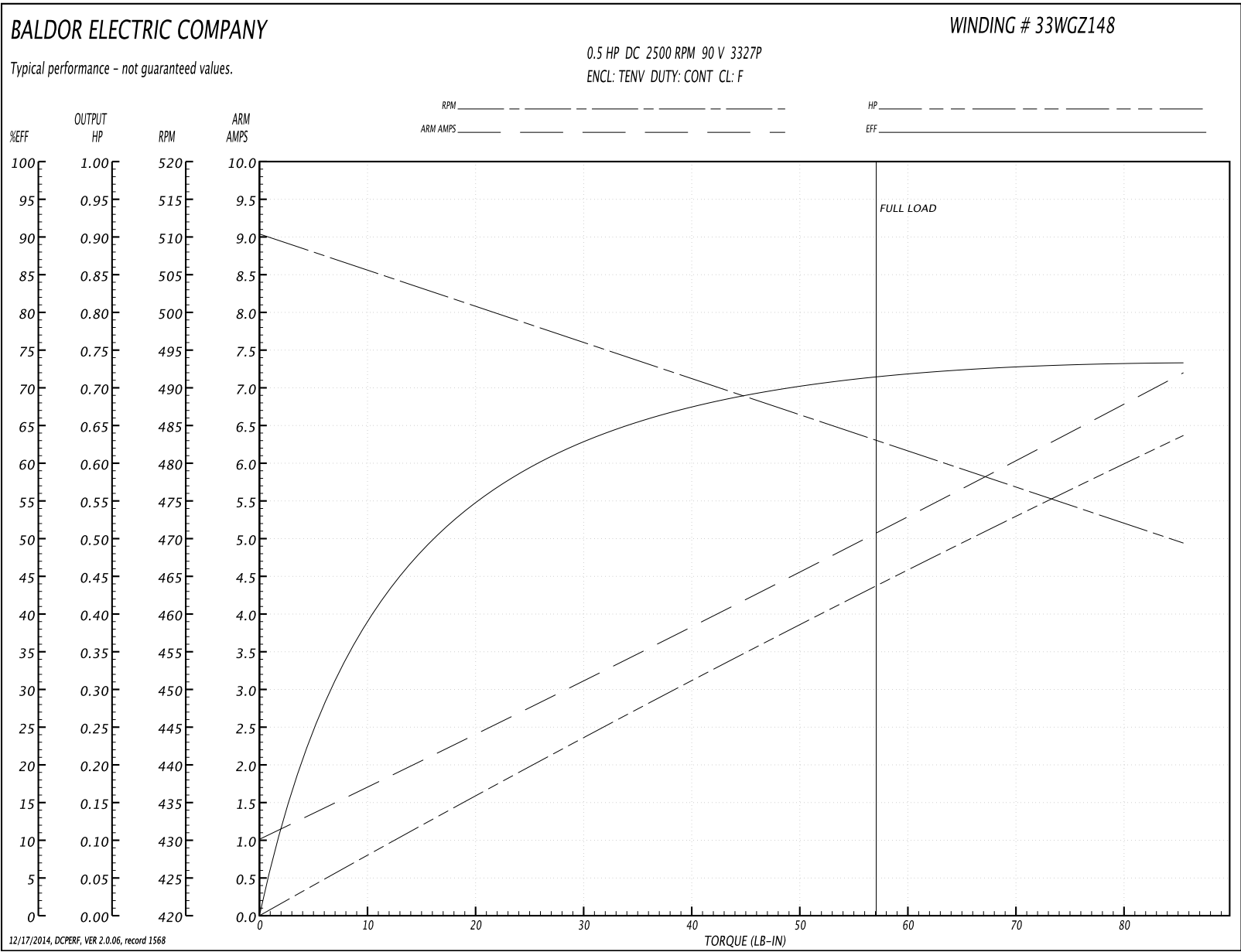
Performance Data at 90.0 Arm V, 0.5HP (Typical performance - Not guaranteed values)							
General Characteristics							
Armature Resistance:		0.664 ohms		Commutating Winding Resistance:			
Series Winding Resistance:				Shunt Winding Resistance:			
Armature Inductance:		5.119 mH		Armature Inertia:			
Maximum Rated RPM With Field Weakening:				Maximum Allowable Inrush Amps:			
Load Characteristics							
Load Point	1	2	3	4	5	6	7
Armature Amps:	0.95	1.93	2.9	3.92	5.0	6.04	7.11
RPM:	63.2	63.3	62.6	62.0	61.4	60.6	60.1
Torque (LB-IN):	0.0	53.6	107.3	160.9	214.5	268.1	321.8

Performance Graph at 90.0 Arm V, 0.5HP Typical performance - Not guaranteed values



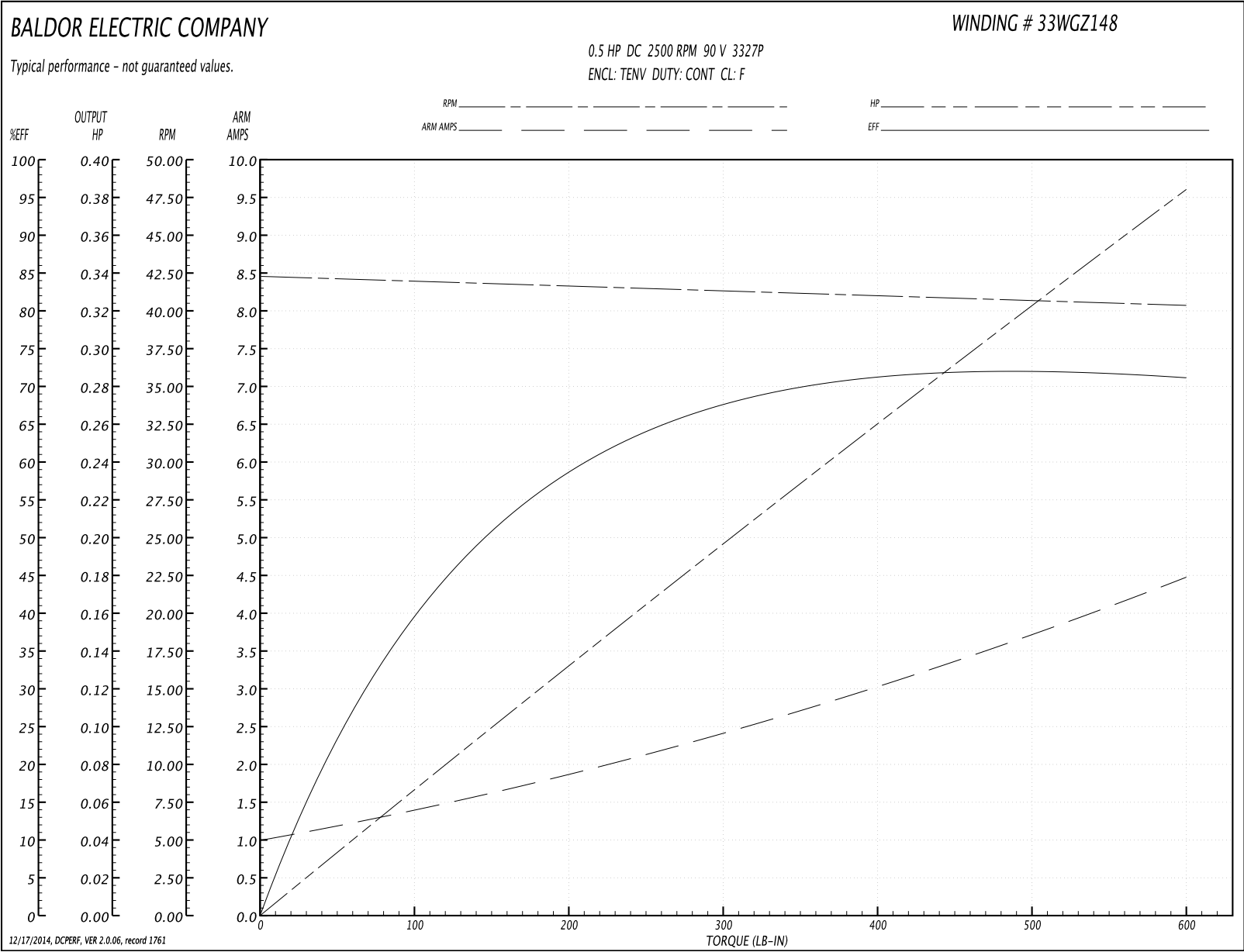
Performance Data at 90.0 Arm V, 0.5HP (Typical performance - Not guaranteed values)							
General Characteristics							
Armature Resistance:		0.664 ohms		Commutating Winding Resistance:			
Series Winding Resistance:				Shunt Winding Resistance:			
Armature Inductance:		5.119 mH		Armature Inertia:			
Maximum Rated RPM With Field Weakening:				Maximum Allowable Inrush Amps:			
Load Characteristics							
Load Point	1	2	3	4	5	6	7
Armature Amps:	1.06	1.92	3.02	4.05	5.1	6.1	7.2
RPM:	510.0	504.0	497.0	489.0	483.6	476.9	468.8
Torque (LB-IN):	0.0	14.25	28.5	42.75	57.0	71.25	85.5

Performance Graph at 90.0 Arm V, 0.5HP Typical performance - Not guaranteed values



Performance Data at 90.0 Arm V, 0.5HP (Typical performance - Not guaranteed values)							
General Characteristics							
Armature Resistance:		0.664 ohms		Commutating Winding Resistance:			
Series Winding Resistance:				Shunt Winding Resistance:			
Armature Inductance:		5.119 mH		Armature Inertia:			
Maximum Rated RPM With Field Weakening:				Maximum Allowable Inrush Amps:			
Load Characteristics							
Load Point	1	2	3	4	5	6	7
Armature Amps:	1.06	1.48	2.46	3.44	4.43	0.0	0.0
RPM:	42.5	41.6	41.2	40.8	40.5	0.0	0.0
Torque (LB-IN):	0.0	150.0	300.0	450.0	600.0	0.0	0.0

Performance Graph at 90.0 Arm V, 0.5HP Typical performance - Not guaranteed values



Performance Data at 90.0 Arm V, 0.5HP (Typical performance - Not guaranteed values)							
General Characteristics							
Armature Resistance:		0.664 ohms		Commutating Winding Resistance:			
Series Winding Resistance:				Shunt Winding Resistance:			
Armature Inductance:		5.119 mH		Armature Inertia:			
Maximum Rated RPM With Field Weakening:				Maximum Allowable Inrush Amps:			
Load Characteristics							
Load Point	1	2	3	4	5	6	7
Armature Amps:	1.06	1.92	3.02	4.05	5.1	6.1	7.2
RPM:	170.0	168.0	165.7	163.0	161.0	160.0	156.0
Torque (LB-IN):	0.0	42.75	85.5	125.25	171.0	213.75	256.5

Performance Graph at 90.0 Arm V, 0.5HP Typical performance - Not guaranteed values

