

BALDOR® • RELIANCE

Product Information Packet

GPP3380

G.M. F27LF 180V DC 83 RPM CAT# GPP3380

Part Detail							
Revision:	E	Status:	PRD/A	Change #:		Proprietary:	No
Type:		Prod. Type:		Elec. Spec:		CD Diagram:	
Enclosure:	TENV	Mfg Plant:		Mech. Spec:		Layout:	33-2328Z160K4
Frame:	PSLH	Mounting:		Poles:		Created Date:	05-06-2009
Base:		Rotation:	R	Insulation:		Eff. Date:	05-06-2016
Field Type:		Literature:		Elec. Diagram:		Replaced By:	

Nameplate NP1286A09				
SPEC.	33-2328Z160K4			
CAT.	GPP3380		SER.	
RATIO	30:1		TORQ/LI	337

Parts List		
Part Number	Description	Quantity
33-2328Z160	.5HP,2500RPM,DC,42CZ,3327P,TENV,F1,N	1.000 EA
HG0080A01BG	HSG,PSL FLAT BACK LONG HOUSING	1.000 EA
HW4600C70	SEAL .669 X 1.496 X .276, SINGLE LIP	1.000 EA
HW3064E05	1/8 X 1/2 PIN DRIVE LOK TYPE H	1.000 EA
BH1163A02	SCE88 INA NEEDLE ROL SM21	1.000 EA
HA4021A05	1/16 NPSF-HX SOC PIPE PLUG TAPER DRY SEA	1.000 EA
84XN2520J16	1/4-20 X 1 SOC HD CAP SCREW	4.000 EA
HW1028A25	NYLON SEALING COLLAR,1/4"(NYLTITE)	4.000 EA
BGS01238	SHAFT,ASSY PSLH LONG INT1 3RED 2.0/5.0	1.000 EA
BGS01239	SHAFT,ASSY PSLH LONG INT2 3RED 3.0/2.0	1.000 EA
BGS01219	SHAFT,ASSY PSLH LONG OUTP 3RED 0.0/3.0	1.000 EA
CG0012A01BG	CAP, PSL GEAR HEAD	1.000 EA
RM1020A22	O-RING .070 X 4.527	1.000 EA
BH1163A03	SCE1212 INA NEEDLE ROLLER BBG1027	1.000 EA
HW4600G71	SEAL, .750 X 1.250 X .250 SGL LIP FT802	1.000 EA
60XM2520A12	SCREW,PAN TORX 1/4-20X.750 THREAD FORMIN	4.000 EA
MJ1000B02	KLUB. GH6-460 GEAR OIL 1 GALLON	0.010 GA
BMH1910	KEY 3/16X3/16X1 1/8 AUTO X	1.000 EA
ME4000	.375-.75" DIA.#SW-04 WOVEN SHAFT PROTECT	0.090 FT
NP1286A09	NP,GR AD NONE H	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 11/14	1.000 EA
CPA1001	PACKING GROUP OVERSIZED SINGLE	1.000 EA

Accessories		
Part Number	Description	Multiplier
LB75	BASE, L BRACKET 34 FRAME PSL KIT BLACK	A8
BC139	.25HP-230V/SCR CNTL,AC,HP RES REQ.	E9
BC140	CS2934A,120/240VAC .5/1-HP SCR CTL,NEMA	E9
BC140-FBR	3479G KBMD-240D w/FBR CN3000A54	E9
BR0050	PLUG IN RESISTOR	E9

DC Motor Performance Data

Record # 399 - Typical performance - not guaranteed values

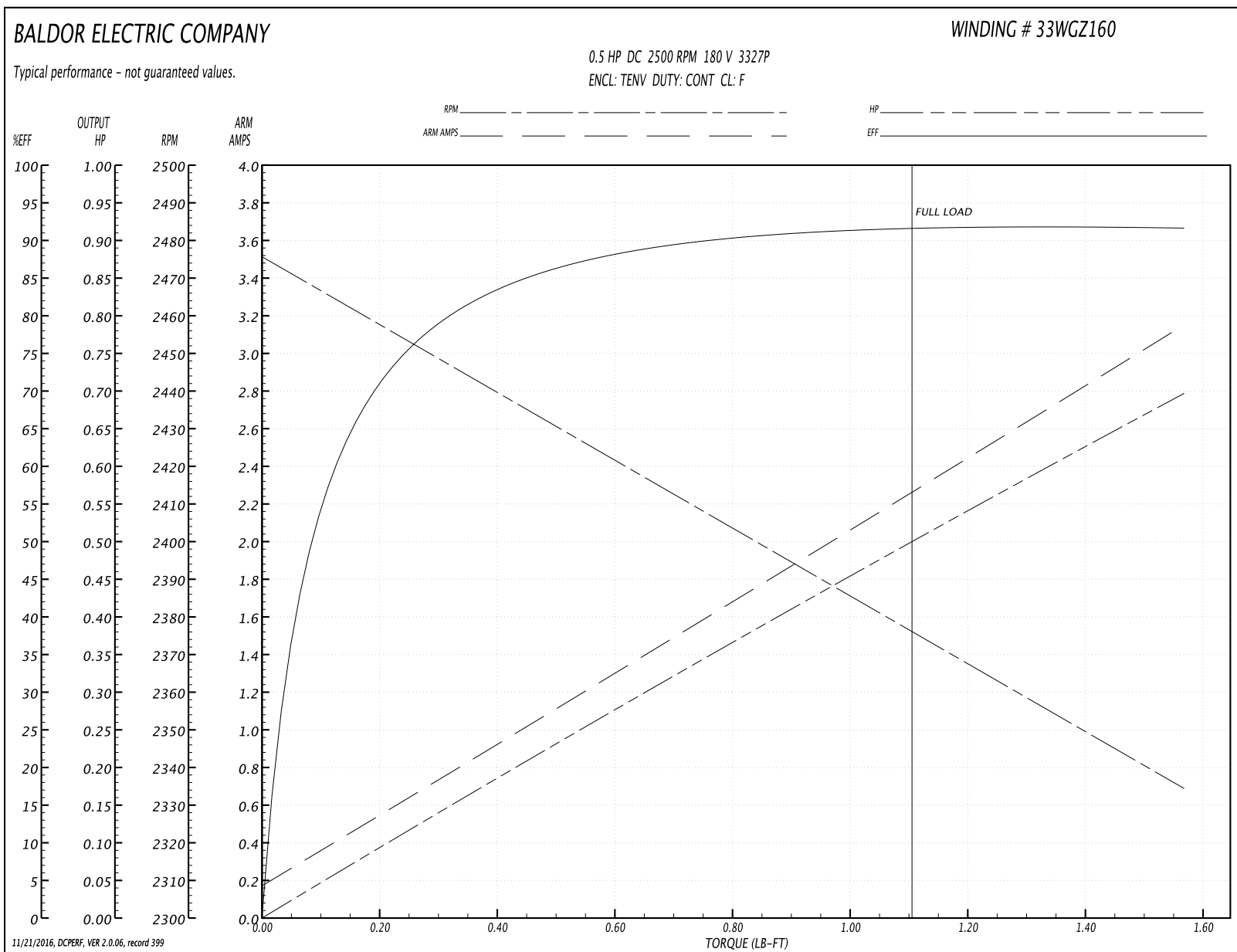
Winding: 33WGZ160-R001	Type: 3327P	Enclosure: TENV
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Nameplate Data		General Characteristics	
Rated Output (HP)	0.5	Armature Resistance @ 25°C	2.54 Ω
R.P.M.	2500		
Armature Volts	180		
Armature Amps	2.4		
Field Volts		Armature Inductance	19.6614 mH
Field Amps			
Rating - Duty	40C AMB-CONT		
Form Factor	1.3		

Load Characteristics at 180 Armature Volts

Load Point	1	2	3	4	5	6	7
Armature Amps	0.18	0.65	1.13	1.63	2.18	2.65	3.15
R.P.M.	2491	2438	2422	2409	2376	2367	2333
Torque (LB-FT)	0	0.258	0.516	0.773	1.053	1.311	1.568

Performance Graph at 180.0 Arm V, 0.5HP Typical performance - Not guaranteed values



DC Motor Performance Data

Record # 1086 - Typical performance - not guaranteed values

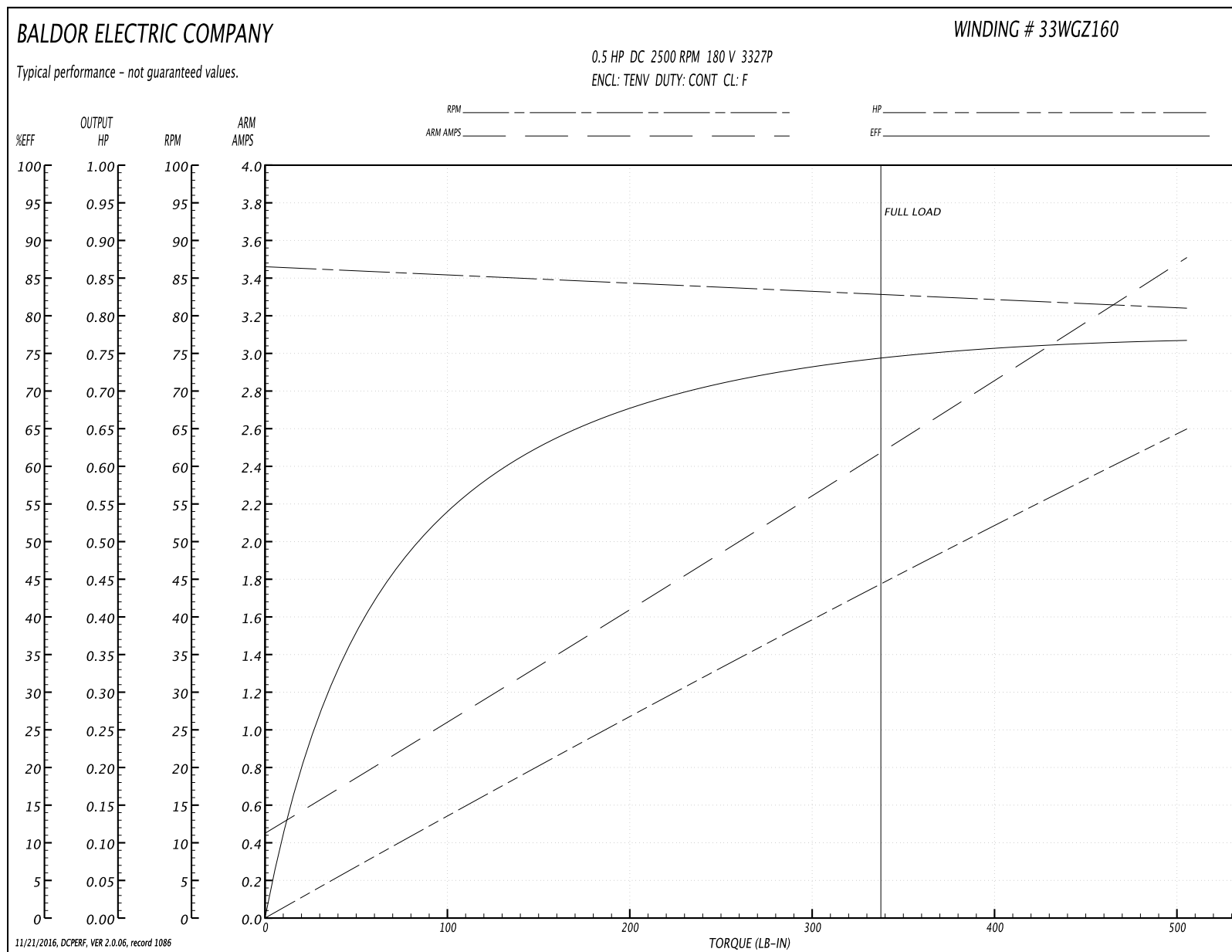
Winding: 33WGZ160-R001 Gear Type: PARALLEL	Type: 3327P Gear Style: PSLH	Enclosure: TENV Gear Ratio: 30:1
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Nameplate Data		General Characteristics	
Rated Output (HP)	0.5	Armature Resistance @ 25°C	2.54 Ω
R.P.M.	2500		
Armature Volts	180		
Armature Amps	2.4		
Field Volts		Armature Inductance	19.6614 mH
Field Amps			
Rating - Duty	40C AMB-CONT		
Form Factor	1.3		

Load Characteristics at 180 Armature Volts

Load Point	1	2	3	4	5	6	7
Armature Amps	0.47	0.91	1.47	1.95	2.47	3	3.5
R.P.M.	86.3	85.7	84.8	83.9	82.8	81.8	81
Torque (LB-IN)	0	84.25	168.5	252.8	337	421.3	505.5

Performance Graph at 180.0 Arm V, 0.5HP Typical performance - Not guaranteed values



DC Motor Performance Data

Record # 1657 - Typical performance - not guaranteed values

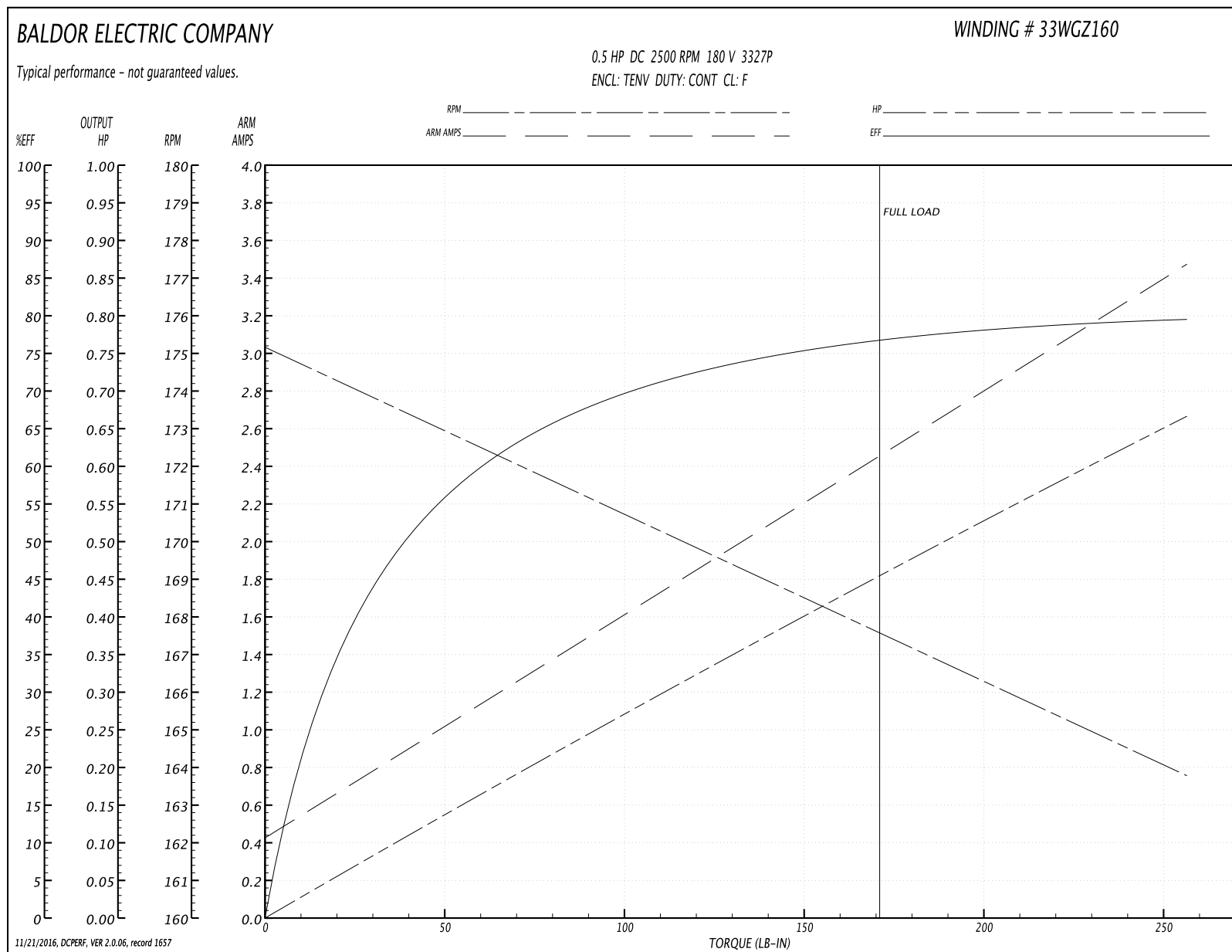
Winding: 33WGZ160-R001 Gear Type: PARALLEL	Type: 3327P Gear Style: PSLH	Enclosure: TENV Gear Ratio: 15:1
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Nameplate Data		General Characteristics	
Rated Output (HP)	0.5	Armature Resistance @ 25°C	2.54 Ω
R.P.M.	2500		
Armature Volts	180		
Armature Amps	2.4		
Field Volts		Armature Inductance	19.6614 mH
Field Amps			
Rating - Duty	40C AMB-CONT		
Form Factor	1.3		

Load Characteristics at 180 Armature Volts

Load Point	1	2	3	4	5	6	7
Armature Amps	0.42	0.94	1.44	1.96	2.45	2.94	3.49
R.P.M.	174.7	173.4	171.8	169.6	167.6	165.6	163.6
Torque (LB-IN)	0	42.75	85.5	128.25	171	213.75	256.5

Performance Graph at 180.0 Arm V, 0.5HP Typical performance - Not guaranteed values



DC Motor Performance Data

Record # 1658 - Typical performance - not guaranteed values

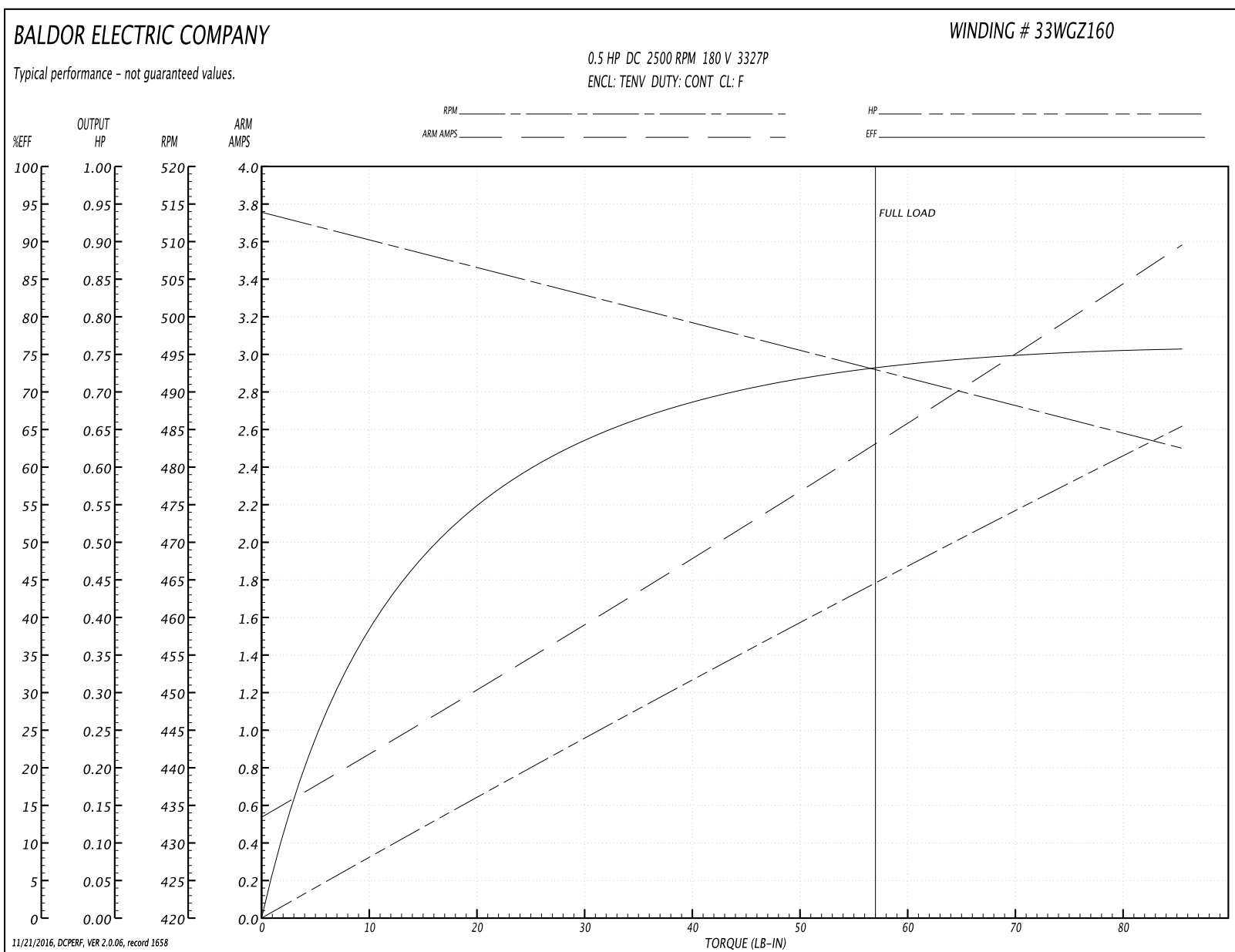
Winding: 33WGZ160-R001 Gear Type: PARALLEL	Type: 3327P Gear Style: PSLH	Enclosure: TENV Gear Ratio: 5:1
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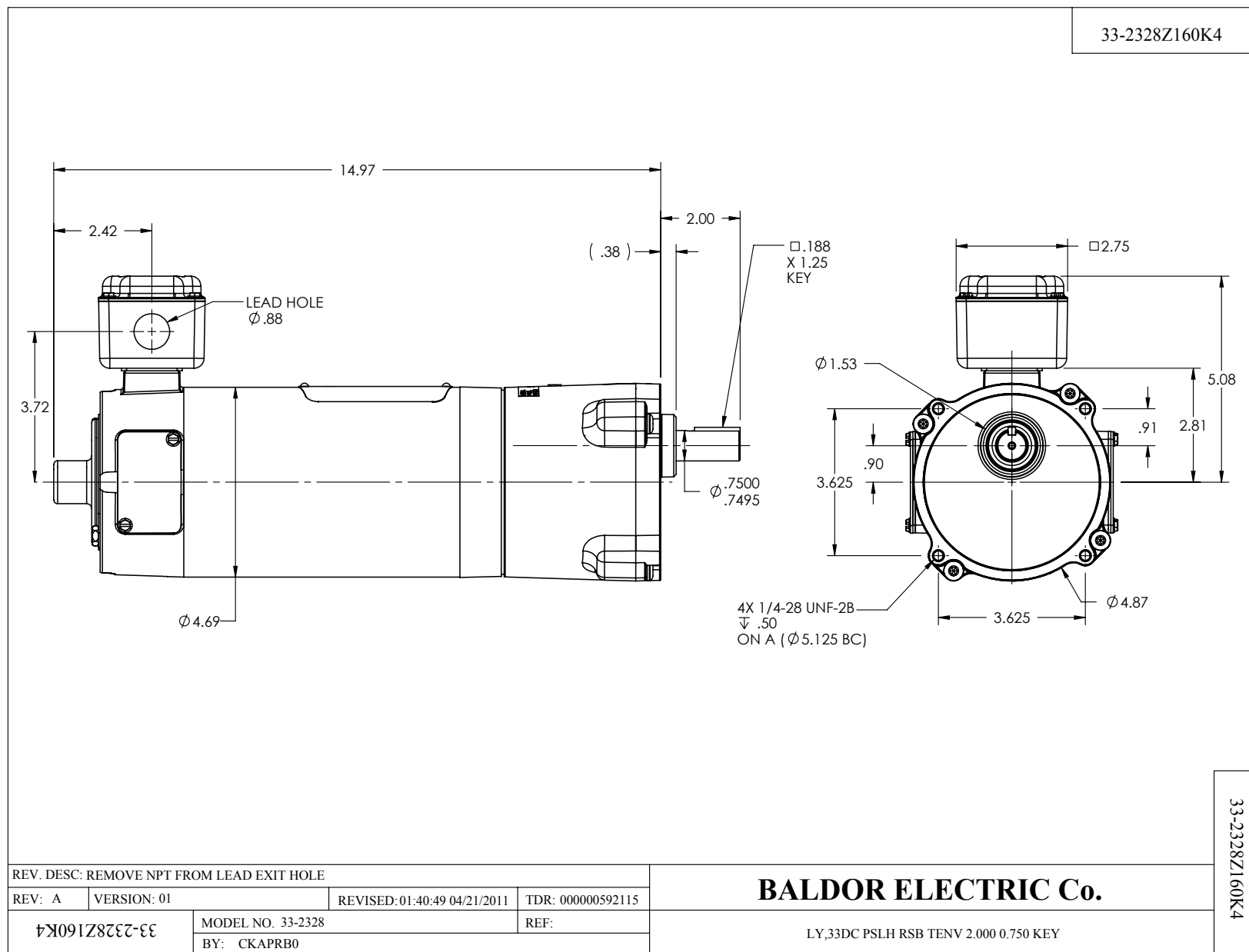
Nameplate Data		General Characteristics	
Rated Output (HP)	0.5	Armature Resistance @ 25°C	2.54 Ω
R.P.M.	2500		
Armature Volts	180		
Armature Amps	2.4		
Field Volts		Armature Inductance	19.6614 mH
Field Amps			
Rating - Duty	40C AMB-CONT		
Form Factor	1.3		

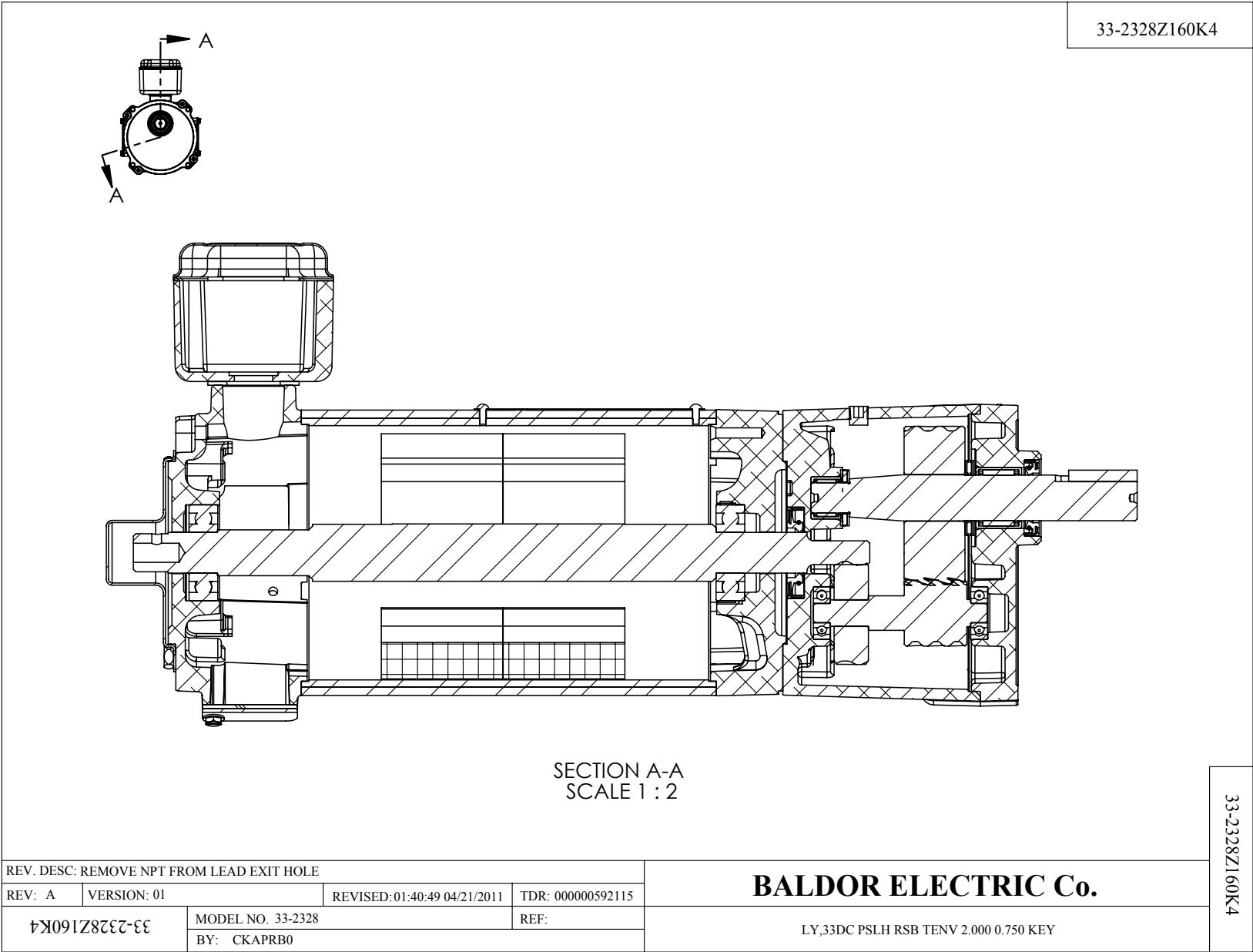
Load Characteristics at 180 Armature Volts

Load Point	1	2	3	4	5	6	7
Armature Amps	0.57	0.97	1.5	2.02	2.55	3.05	3.57
R.P.M.	512.5	510.4	503.5	498	493	487.7	482.3
Torque (LB-IN)	0	14.25	28.5	42.75	57	71.25	85.5

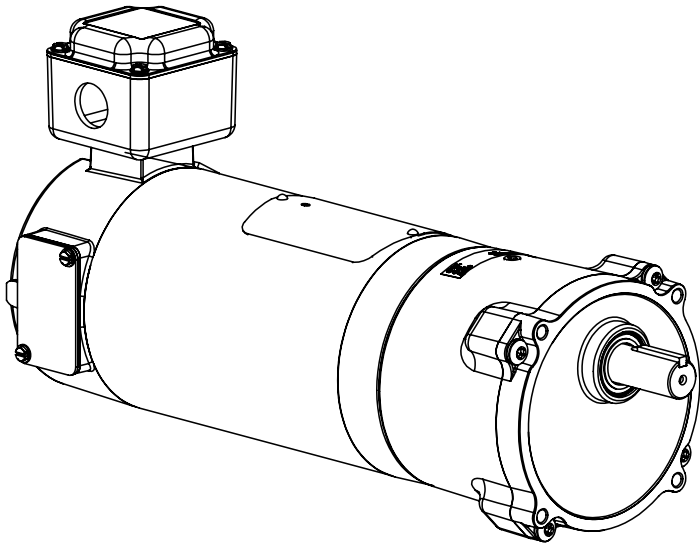
Performance Graph at 180.0 Arm V, 0.5HP Typical performance - Not guaranteed values







ITEM NO.	PART NUMBER	33-2328Z160K4/QTY.
1	327	1
2	HG0080A01	1
3	HW4600C70	1
4	HW3064E05	1
5	BH1163A02	1
6	HA4021A05	1
7	84XN2520J12	4
8	BGS01238	1
9	BGS01239	1
10	BGS01219	1
11	SG0045A95	1
12	CG0012A01	1
13	HW4600D39	1
14	BH1163A03	1
15	60XM2520A12	4
16	BMH1910	1
17	NP1286A09	1



REV. DESC: REMOVE NPT FROM LEAD EXIT HOLE

REV: A	VERSION: 01	REVISED: 01:40:49 04/21/2011	TDR: 000000592115
33-2328Z160K4		MODEL NO. 33-2328	REF:
		BY: CKAPRB0	

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LY_33DC PSLH RSB TENV 2.000 0.750 KEY

33-2328Z160K4

