

BALDOR® • RELIANCE

Product Information Packet

CDP3330

.5HP,1750RPM,DC,56C,3336P,TENV,F1

Part Detail							
Revision:	V	Status:	PRD/A	Change #:		Proprietary:	No
Type:	DC	Prod. Type:		Elec. Spec:	33WGZ122	CD Diagram:	CD0194
Enclosure:	TENV	Mfg Plant:		Mech. Spec:	33-2024	Layout:	33LY2024
Frame:	56C	Mounting:	F1	Poles:	///	Created Date:	
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	05-27-2011
Field Type:		Literature:		Elec. Diagram:		Replaced By:	

Nameplate NP0891L					
CAT.NO.	CDP3330				
SPEC.	33-2024Z122				
HP	.5	ENCL	TENV		
RPM	1750				
FRAME	56C	TYPE	3336P		
ARM V	90	ARM A	4.8		
FLD V		FLD A			
INSUL	F	AMB.	40		
DUTY	CONT	SUPPLY	1.3		
BRG/DE	6203	BRG/ODE	6203		
BRUSHES	2/BP5011T01				
		BLANK			
SER.					
BLANK					
APRV-CE	Y	APRV-CSA	Y	APRV-UL	Y

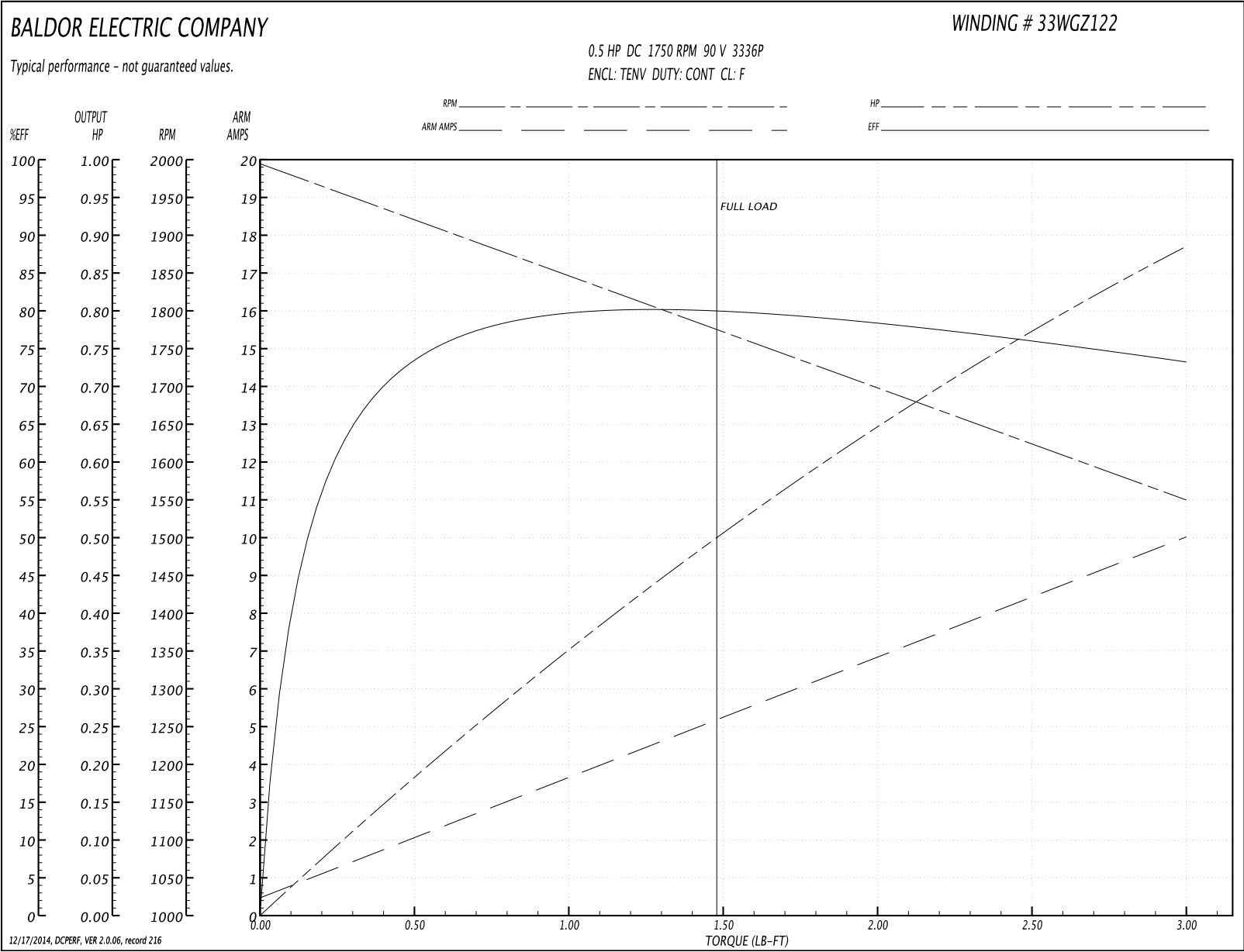
Parts List		
Part Number	Description	Quantity
SA005026	SA 33-2024Z122	1.000 EA
AA002675	AA 33-2024Z122	1.000 EA
BP5011T01SP	CARBON BRUSH - 33P, 90V	1.000 EA
BP5012A04SP	BRUSH SPRING FOR DC MOTORS	1.000 EA
33CB5000A03	33P BOX & LEAD ASSY	1.000 EA
33GS1006A01	GASKET CONDUIT BOX (LEXIDE)	1.000 EA
51XT0832A08	8-32 X 1/2 TY23 HXWS SLDSR	3.000 EA
51XW0832G07	8-32 X 7/16 TY23 HXWS SLDSR GR	1.000 EA
HW3001B01	003SS CUP WASHER, FOR #8 SCREW	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 EA
33EP3101A04	FR ENDPLATE, MACH	1.000 EA
33CB4501A01SP	BRUSH INSPECTION COVER	2.000 EA
33GS1005A01	GASKET, BRUSH INSP. COVERELECTRICLY NON-	2.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 EA
HW5100A03SP	WAVY WASHER (W1543-017)	1.000 EA
33EP3302A10	PU ENDPLATE, MACH	1.000 EA
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 EA
HA6887	SHAFT PROTECTOR STAMPED STEEL 20 GA.	1.000 EA
10XN2520A06	1/4 20X3/8 HX HD CAP	2.000 EA
34CB4512	34 CB LID	1.000 EA
34GS1001	GASKET, STD CONDUIT BOX LID (LEXIDE)	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 EA
HW2501D13SP	KEY, 3/16 SQ X 1.375	1.000 EA
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
MG1000G27	MED CHARCOAL METALLIC GREY	0.013 GA
10XF0440S02	04-40 X 1/8 TYPE F HEX HD STAINLESS STIC	2.000 EA
33RK5004SP	ROCKERARM	1.000 EA
HA3100S03	THRUBOLT- 10-32 X 10.625 302 OR 303 SS	2.000 EA
LB1119N	WARNING LABEL	1.000 EA
LB1125C01	STD (STOCK) CARTON LABEL BALDOR WITH FLA	1.000 EA
LC0194	CONNECTION LABEL	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 10/13	1.000 EA
NP0891L	NP STD LASER ENGRAVED DC MTRS, UL CSA CE	1.000 EA
27PA1001	PACKAGING GROUP	1.000 EA

Accessories		
Part Number	Description	Multiplier
TK3300	TACHO MOUNTING KIT TK3300	A8
TK3300-HPU	HPU10 MOUNTING KIT 33P/34P TENV	

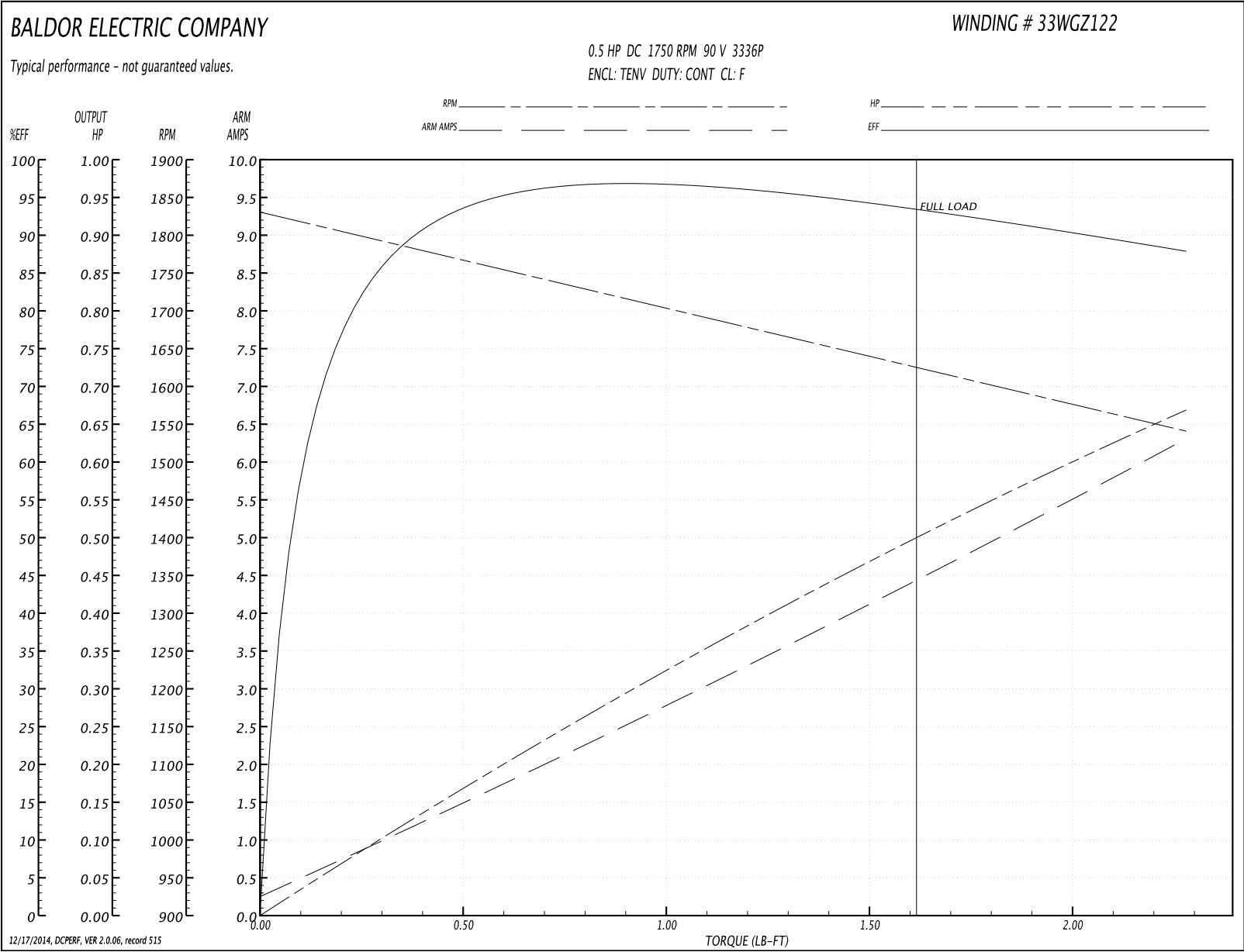
Performance Data at 90.0 Arm V, 0.5HP (Typical performance - Not guaranteed values)							
General Characteristics							
Armature Resistance:		2.0767 ohms		Commutating Winding Resistance:			
Series Winding Resistance:				Shunt Winding Resistance:			
Armature Inductance:		15.574 mH		Armature Inertia:			
Maximum Rated RPM With Field Weakening:				Maximum Allowable Inrush Amps:		44.0	
Load Characteristics							
Load Point	1	2	3	4	5	6	7
Armature Amps:	0.474	2.065	3.656	5.247	6.838	8.429	10.02
RPM:	1995.0	1920.0	1846.0	1772.0	1698.0	1624.0	1550.0
Torque (LB-FT):	0.0	0.5	1.0	1.5	2.0	2.5	3.0

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



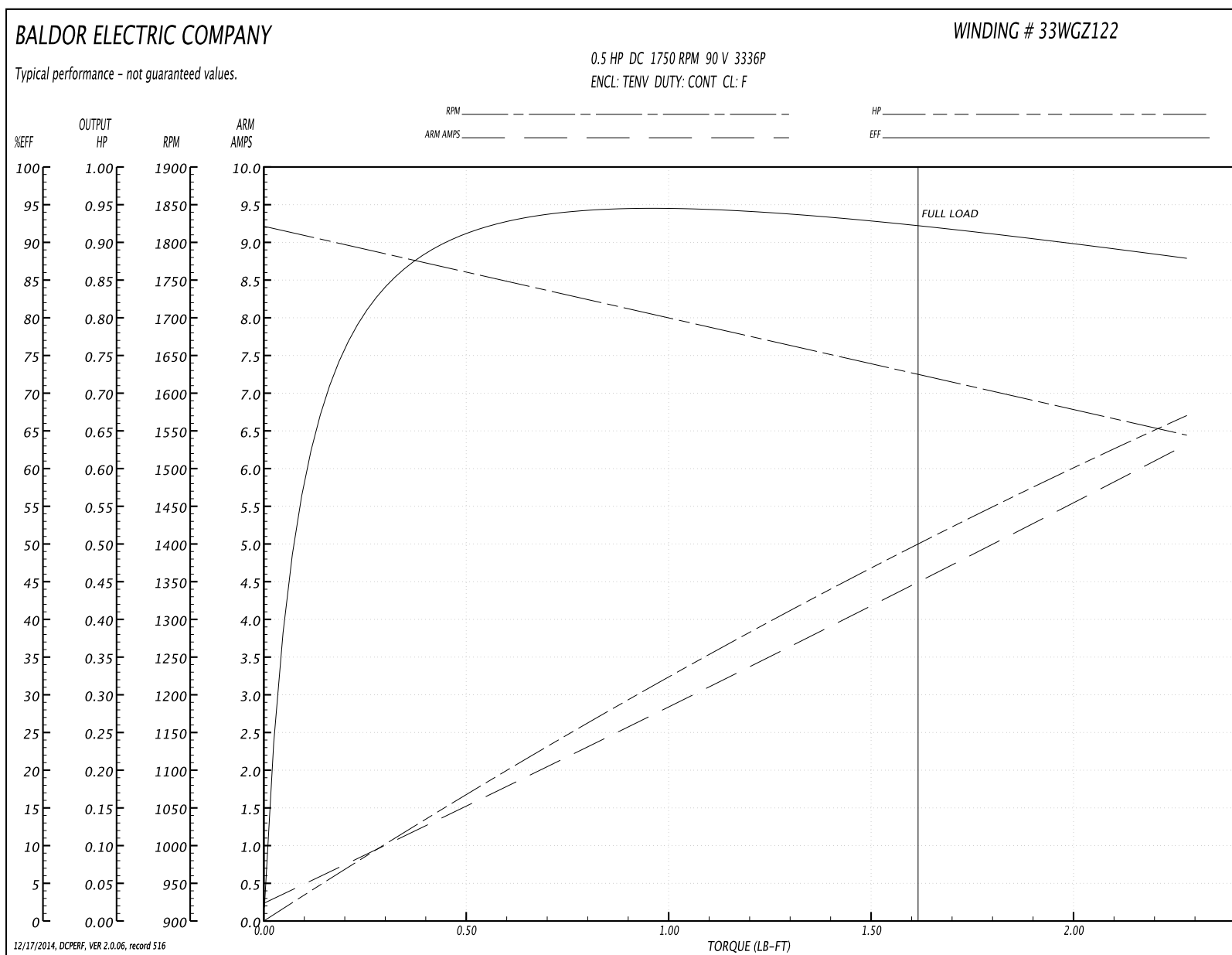
Performance Data at 90.0 Arm V, 0.5HP (Typical performance - Not guaranteed values)							
General Characteristics							
Armature Resistance:		1.2779 ohms		Commutating Winding Resistance:			
Series Winding Resistance:				Shunt Winding Resistance:			
Armature Inductance:		15.798 mH		Armature Inertia:			
Maximum Rated RPM With Field Weakening:				Maximum Allowable Inrush Amps:			
Load Characteristics							
Load Point	1	2	3	4	5	6	7
Armature Amps:	0.24	1.25	2.1	3.15	4.05	5.36	6.25
RPM:	1835.0	1793.0	1721.0	1672.0	1648.0	1584.0	1549.0
Torque (LB-FT):	0.0	0.38	0.76	1.14	1.5	1.9	2.28

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:		1.2525 ohms		Commutating Winding Resistance:			
Series Winding Resistance:				Shunt Winding Resistance:			
Armature Inductance:		15.413 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:	0.24	1.15	2.35	3.16	4.07	5.37	6.3
RPM:	1835.0	1770.0	1723.0	1683.0	1624.0	1588.0	1559.0
Torque (LB-FT):	0.0	0.38	0.76	1.14	1.5	1.9	2.28

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:		1.22 ohms		Commutating Winding Resistance:			
Series Winding Resistance:				Shunt Winding Resistance:			
Armature Inductance:		15.574 mH		Armature Inertia:			
Maximum Rated RPM With Field Weakening:				Maximum Allowable Inrush Amps:		44.0	
Load Characteristics							
Load Point	1	2	3	4	5	6	7
Armature Amps:	0.32	6.51	12.7	18.89	25.08	31.28	39.3
RPM:	2000.0	1682.0	1365.0	1047.0	729.0	412.0	0.1
Torque (LB-FT):	0.0	2.0	4.0	6.0	8.0	10.0	12.59

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

