

BALDOR® • RELIANCE 

Product Information Packet

CDPWD3330

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

Part Detail							
Revision:	AQ	Status:	PRD/A	Change #:		Proprietary:	No
Type:	DC	Prod. Type:	3336P	Elec. Spec:	33WGZ122	CD Diagram:	CD0194
Enclosure:	TENV	Mfg Plant:		Mech. Spec:	33-2142	Layout:	33LY2142
Frame:	56C	Mounting:	F1	Poles:	00	Created Date:	
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	08-23-2018
Field Type:		Literature:		Elec. Diagram:		Replaced By:	

Specs			
Enclosure:	TENV		
Frame:	56C		
Frame Material:	Steel		
Agency Approvals:	CE		
	CSA		
	UR		
	WEEE		
Base Indicator:	Rigid		
Bearing Grease Type:	Polyrex EM (-20F +300F)		
Drip Cover:	No Drip Cover		
Duty Rating:	CONT		
Feedback Device:	NO FEEDBACK		
Heater Indicator:	No Heater		
Insulation Class:	F		
Lifting Lugs:	No Lifting Lugs		
Motor Lead Quantity/Wire Size:	2 @ 18 AWG, A		

Motor Lead Exit:	Ko Box		
Motor Lead Termination:	Flying Leads		
Mounting Arrangement:	F1		
Product Family:	Wash Down		
Pulley End Bearing Type:	Sealed Bearing		
RoHS Status:	ROHS COMPLIANT		
Shaft Extension Location:	Pulley End		
Shaft Ground Indicator:	No Shaft Grounding		
Shaft Rotation:	Reversible		
Shaft Slinger Indicator:	Shaft Slinger		
Motor Standards:	NEMA		

Nameplate NP1509			
CAT.NO.	CDPWD3330		
SPEC.	33-2142Z122		
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		
	IP55	BLANK	
SER.			
BLANK			
APRV-CSA	<input type="checkbox"/>	APRV-UL	<input type="checkbox"/>
		APRV-CE	<input type="checkbox"/>

Parts List		
Part Number	Description	Quantity
SA005091	SA 33-2142Z122	1.000 EA
AA002740	AA 33-2142Z122	1.000 EA
BP5011T01SP	CARBON BRUSH - 33P, 90V	1.000 EA
BP5012A04SP	BRUSH SPRING FOR DC MOTORS	1.000 EA
33CB3001B02W	CONDUIT BOX, MACH/COATED WHITE	1.000 EA
33GS1013	GASKET - CONDUIT BOX, .062 WHITE NEOPREN	1.000 EA
51XT0832A08	8-32 X 1/2 TY23 HXWS SLDSR	3.000 EA
HW3001B02	BRASS CUP WASHER W/GROUND SYMBOL TAB,	1.000 EA
51XW0832G07	8-32 X 7/16 TY23 HXWS SLDSR GR	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 EA
33EP3101A13W	FR ENDPLATE, MACH W/WHITE EPOXY PAINT	1.000 EA
HW4600A54	SEAL 0.668 X 1.064 X 0.250 DOUBLE SHIELD	1.000 EA
33CB4501A04W	BRUSH INSPECTION COVER, POWDER COAT	2.000 EA
33GS1014	GASKET, BRUSH INSP. COVERTDR 11640	2.000 EA
11XT0832S07	08-32 X 7/16 HX SL WS HD, 304 STAINLESS	6.000 EA
HA6887	SHAFT PROTECTOR STAMPED STEEL 20 GA.	1.000 EA
10XN2520S06	1/4 20X3/8 HX HD CAP S.S.	2.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
33EP3302A14W	PULLEY ENDPLATE ENCL 33PM 56C W/WHITE EP	1.000 EA
HW4600A54	SEAL 0.668 X 1.064 X 0.250 DOUBLE SHIELD	1.000 EA
HW4600B39SP	V-RING SLINGER 0.550 X 0.790 X .18 VITON	1.000 EA
11XN1032S20	10-32 X 1-1/4 HEX WASHER HEAD, SLOTTED	2.000 EA
19XA1016S06	10-16X 3/8" TYPE AB SS X	3.000 EA
WD4102A12	SR 6P-4 HEYCO STRN RELIEF OR 23MP06P40 M	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
34CB4500A10W	CONDUIT BOX LID, MACH W/WHITE EPOXY	1.000 EA
33GS1012	GASKET - CONDUIT BOX LID, MODEL 33PM	1.000 EA
11XT0832S07	08-32 X 7/16 HX SL WS HD, 304 STAINLESS	5.000 EA
HW2502D13	SS KEY, 3/16 SQ X 1.375	1.000 EA
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 EA
MG1025W01	WILKOFASST, 781.01, SIGNAL WHITE #9003	0.013 GA
33RK5004SP	ROCKERARM	1.000 EA
HA3100S03	THRUBOLT- 10-32 X 10.625 302 OR 303 SS	2.000 EA
MG1500Y02	WILKOPON PRIMER YELLOW	0.013 GA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 QT
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 5/18	1.000 EA
LB1164	LABEL,WARNING AND DRAIN	1.000 EA
LC0194	CONNECTION LABEL	1.000 EA
NP1509	DC, WD, UL CE CSA, W/O THERMAL	1.000 EA
27PA1001	PKG GRP, PRINT PK1027A06	1.000 EA
LB1451	WARNING LABEL, CE WARNING SYMBOLS ONLY	1.000 EA
LB1594	MYLAR WEEE WHEELIE BIN SYMBOL FOR CE MOT	1.000 EA

DC Motor Performance Data

Record # 216 - Typical performance - not guaranteed values

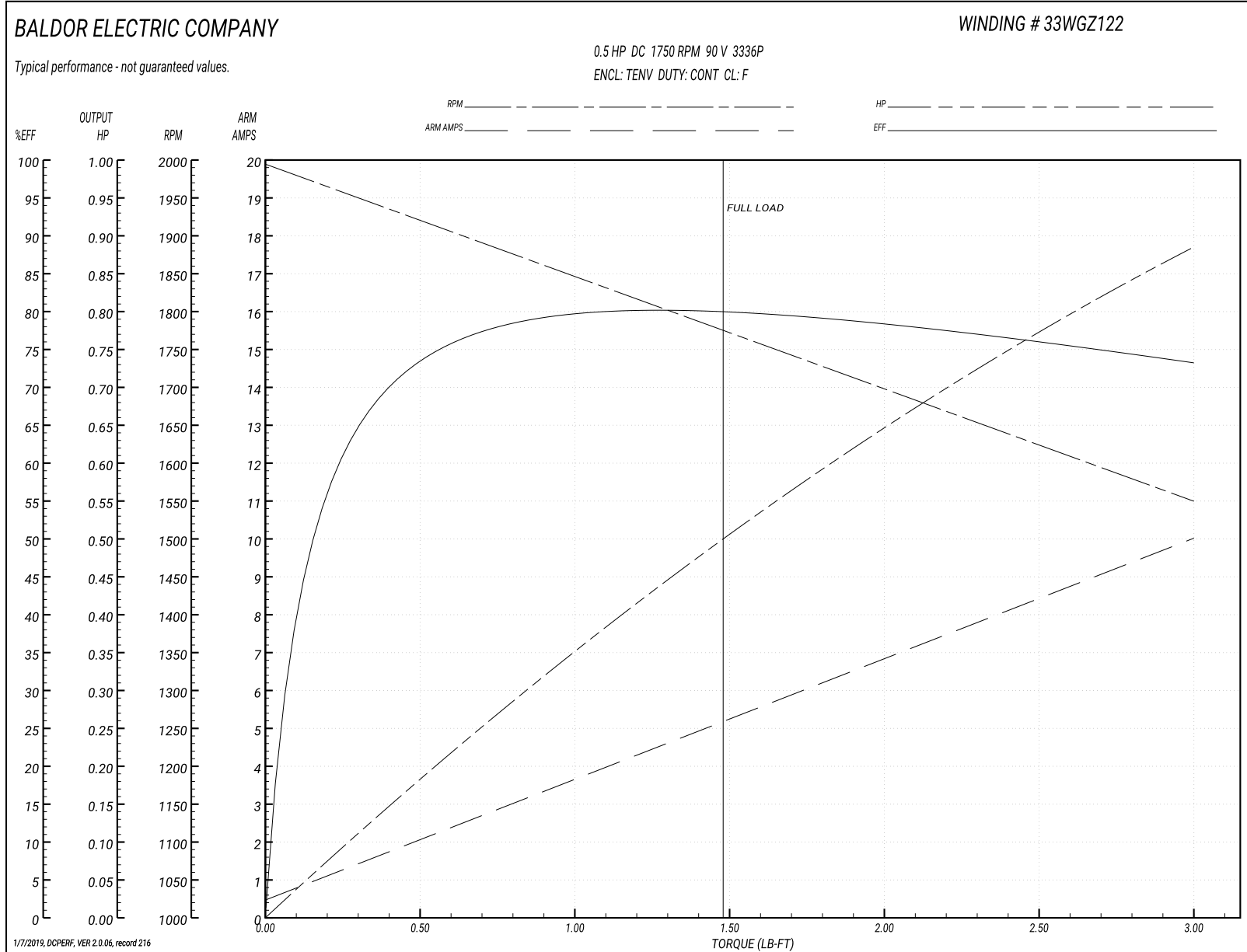
Winding: 33WGZ122-R001	Type: 3336P	Enclosure: TENV
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Nameplate Data		General Characteristics	
Rated Output (HP)	0.5	Armature Resistance @ 25°C	1.22 Ω
R.P.M.	1750		
Armature Volts	90		
Armature Amps	4.8		
Field Volts		Armature Inductance	15.574 mH
Field Amps			
Rating - Duty	40C AMB-CONT		
Form Factor	1.3	Maximum allowable inrush amps	44

Load Characteristics at 90 Armature Volts

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
R.P.M.	1995	1920	1846	1772	1698	1624	1550
Torque (LB-FT)	0	0.5	1	1.5	2	2.5	3

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



DC Motor Performance Data

Record # 515 - Typical performance - not guaranteed values

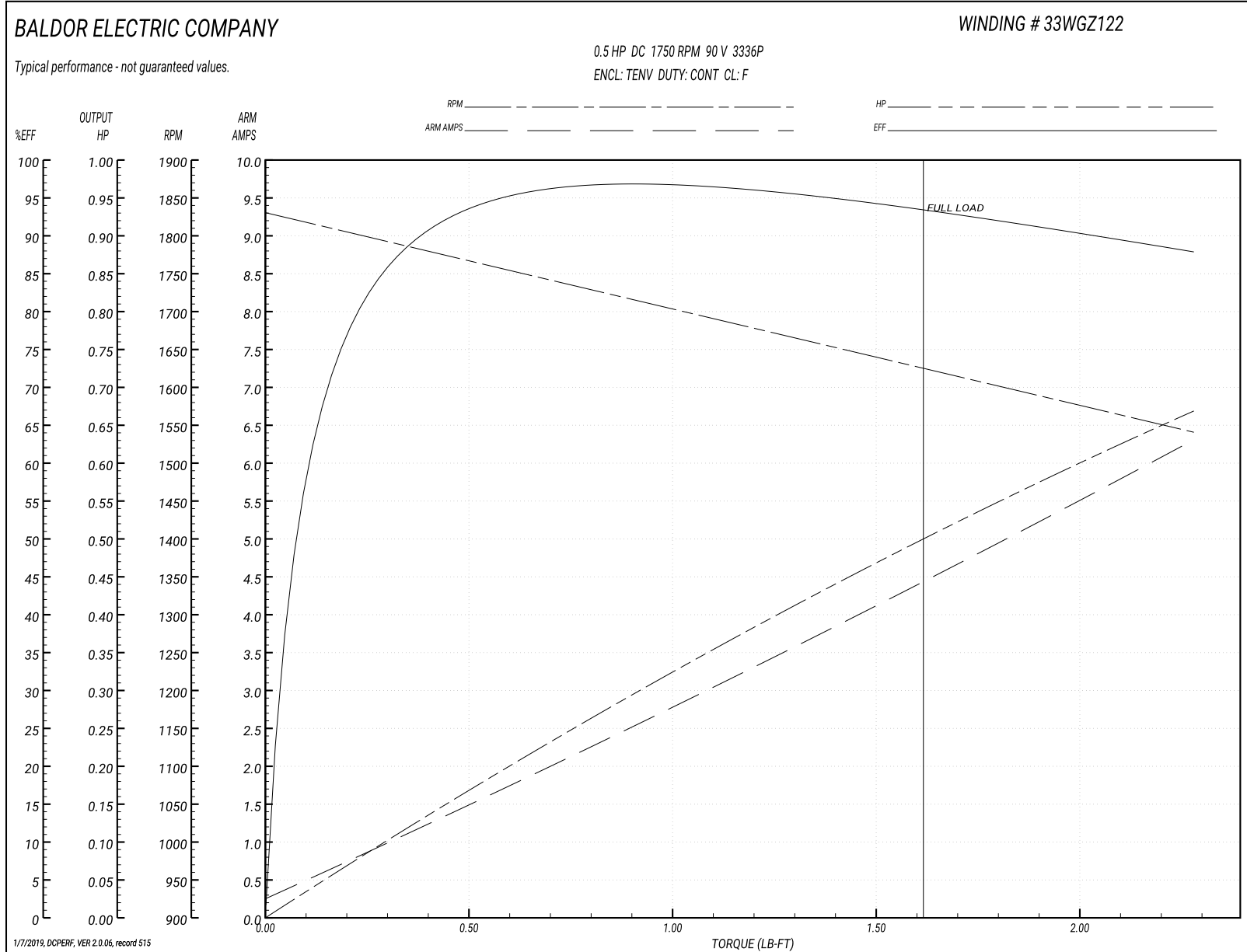
Winding: 33WGZ122-R001	Type: 3336P	Enclosure: TENV
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Nameplate Data		General Characteristics	
Rated Output (HP)	0.5	Armature Resistance @ 25°C	1.2779 Ω
R.P.M.	1750		
Armature Volts	90		
Armature Amps	4.8		
Field Volts		Armature Inductance	15.798 mH
Field Amps			
Rating - Duty	40C AMB-CONT		
Form Factor	1.3		

Load Characteristics at 90 Armature Volts

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
R.P.M.	1835	1793	1721	1672	1648	1584	1549
Torque (LB-FT)	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



DC Motor Performance Data

Record # 516 - Typical performance - not guaranteed values

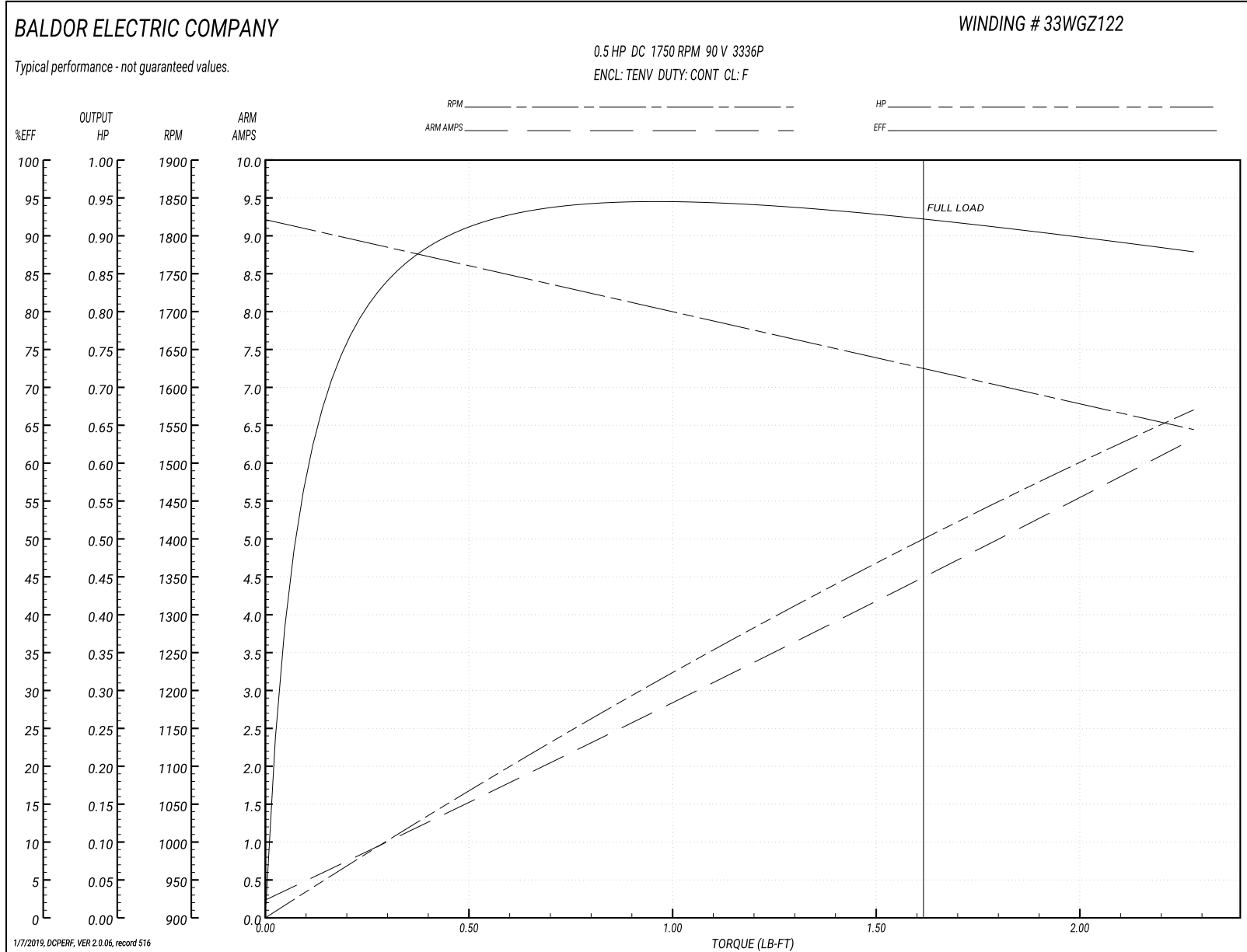
Winding: 33WGZ122-R001	Type: 3336P	Enclosure: TENV
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Nameplate Data		General Characteristics	
Rated Output (HP)	0.5	Armature Resistance @ 25°C	1.2525 Ω
R.P.M.	1750		
Armature Volts	90		
Armature Amps	4.8		
Field Volts		Armature Inductance	15.413 mH
Field Amps			
Rating - Duty	40C AMB-CONT		
Form Factor	1.3		

Load Characteristics at 90 Armature Volts

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
R.P.M.	1835	1770	1723	1683	1624	1588	1559
Torque (LB-FT)	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



DC Motor Performance Data

Record # 1619 - Typical performance - not guaranteed values

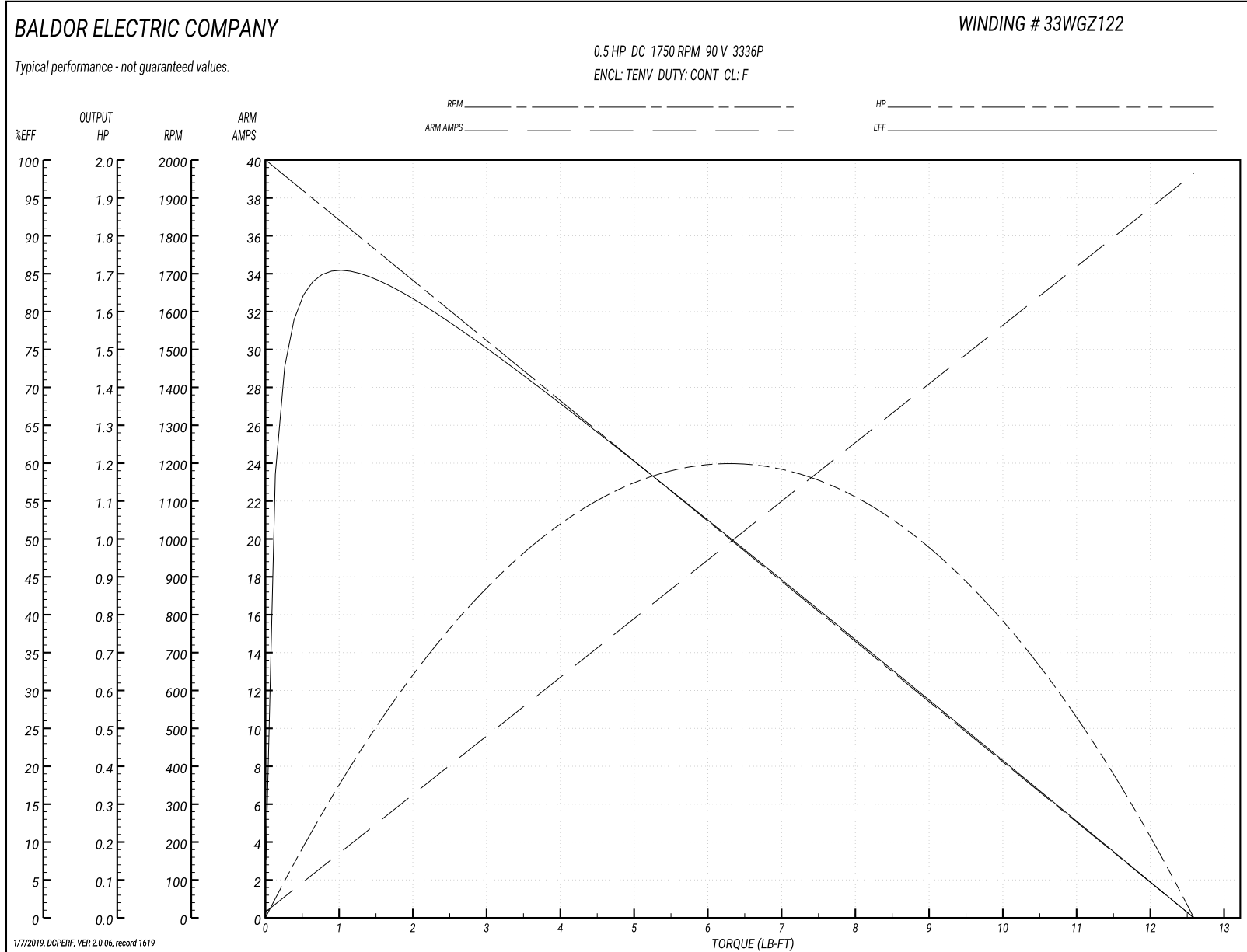
Winding: 33WGZ122-R001	Type: 3336P	Enclosure: TENV
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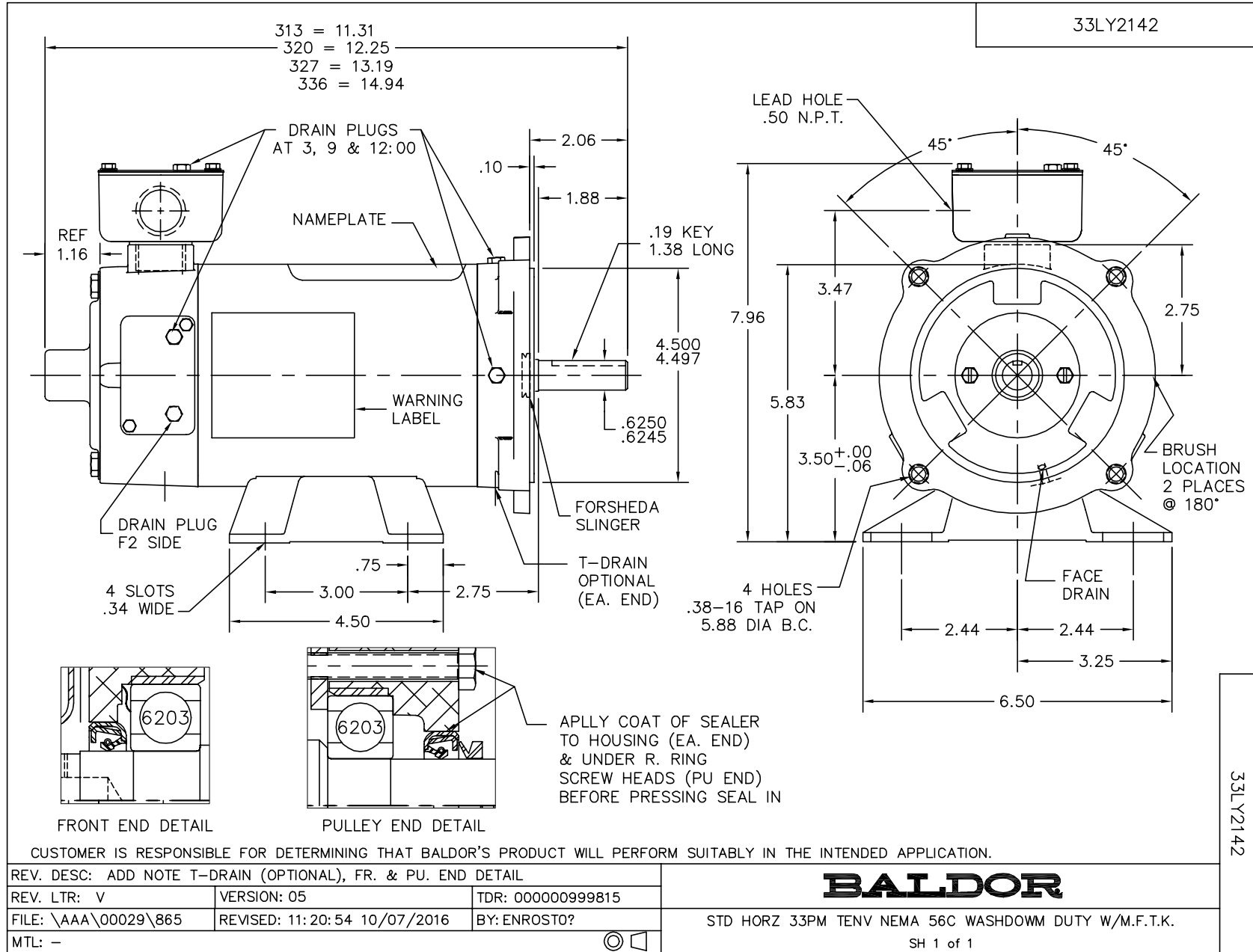
Nameplate Data		General Characteristics	
Rated Output (HP)	0.5	Armature Resistance @ 25°C	1.22 Ω
R.P.M.	1750		
Armature Volts	90	Voltage Constant	44.63 v/krpm
Armature Amps	4.8		
Field Volts		Armature Inductance	15.574 mH
Field Amps		Armature Inertia	14.0472 LI ²
Rating - Duty	40C AMB-CONT		
Form Factor	1.3		

Load Characteristics at 90 Armature Volts

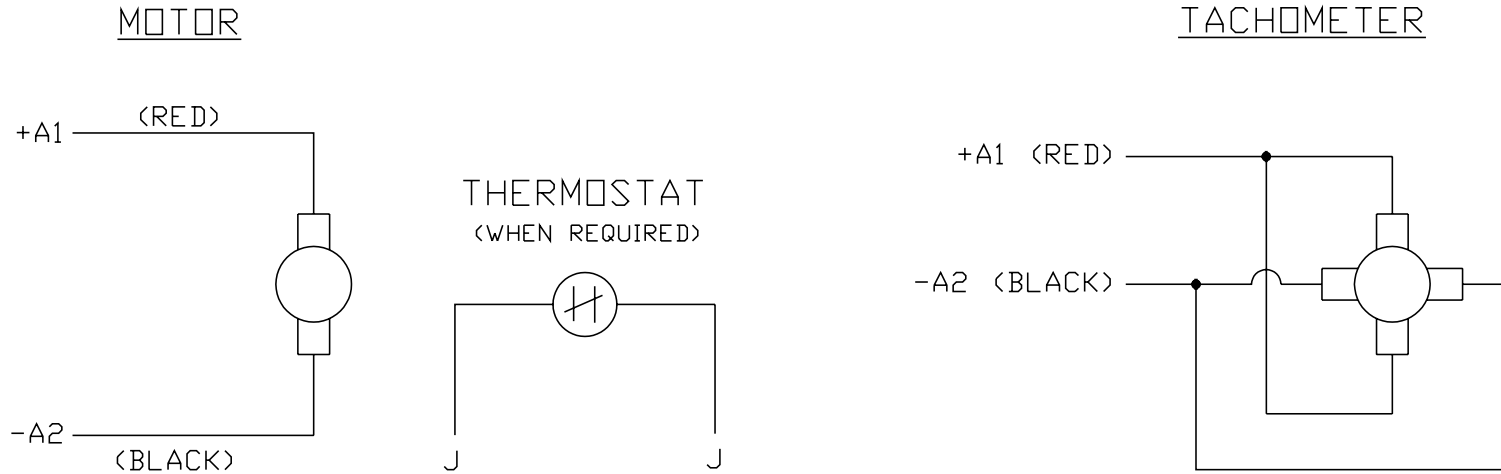
Load Point	1	2	3	4	5	6	7
Armature Amps	0.32	6.51	12.7	18.89	25.08	31.28	39.3
R.P.M.	2000	1682	1365	1047	729	412	0.1
Torque (LB-FT)	0	2	4	6	8	10	12.59

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





CD0194



NOTES:

1. CCW ROTATION AS SHOWN FACING COMMUTATOR END. TO REVERSE MOTOR ROTATION OR TACHOMETER OUTPUT POLARITY INTERCHANGE LEADS A1(RED) & A2(BLACK)
2. LEAD COLORS FOR REFERENCE ONLY & NOT SPECIFIED BY THIS DRAWING. LEAD COLORS SPECIFIED BY LAYOUT DRAWING & BILL OF MATERIAL ONLY.

MATL: -			
REV: E	ADDED NOTE "LEAD COLORS FOR REFERENCE ONLY &..."		
761000	SCALE: -	BY: CK	REVISED: 07/28/95
	FILE: AAA00004503		TDR: 0078737

BALDOR ELECTRIC Co.

CD TYPE P DC PERMANENT MAGNET MOTORS AND TACHOMETERS

CD0194