

**BALDOR® • RELIANCE™**

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# Customer information packet

## CDP3335

.5HP, 2500RPM, DC, 56C, 3327P, TENV, F1

## Specifications

Armature Voltage	90 V
Base Speed	2500 rpm
Enclosure	TENV
Frame	56C
Frame Material	Steel
Output Power	0.500 HP
Agency Approvals	CE CSA UR
Ambient Temperature	40 °C
Armature Current	5.0 a
Armature Inertia	6.318 lb-ft <sup>2</sup>
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
Lifting Lugs	No Lifting Lugs
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	2 @ 18 AWG, A
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	13.19 IN
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding

## Part detail

Revision	AC
Type	DC
Mech. spec.	33-2123
Base	
Status	PRD/A
Elec. spec.	33WGZ148
Layout	33LY2123
Eff. date	06-23-2023
CD Diagram	CD0194
Poles	00
Leads	2#18 A Y
Proprietary	False
Created date	01-01-0001

**Shaft Rotation**

**Reversible**

**Shaft Slinger Indicator**

**No Slinger**

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**Nameplate**

<b>NP0891L</b>					
<b>CAT.NO.</b>	CDP3335				
<b>SPEC.</b>	33-2123Z148				
<b>HP</b>	.5/.37KW	<b>ENCL</b>	TENV		
<b>RPM</b>	2500 1/MIN				
<b>FRAME</b>	56C	<b>TYPE</b>	3327P		
<b>ARM V</b>	90	<b>ARM A</b>	5		
<b>FLD V</b>		<b>FLD A</b>			
<b>INSUL</b>	F	<b>AMB.</b>	40		
<b>DUTY</b>	S1 CONT	<b>SUPPLY</b>	1.3		
<b>BRG/DE</b>	6203	<b>BRG/ODE</b>	6203		
<b>BRUSHES</b>	2/BP5011CV01				
		<b>BLANK</b>			
<b>SER.</b>					
<b>BLANK</b>	IP44 IC410 12KG				
<b>APRV-CE</b>	Y	<b>APRV-CSA</b>	Y	<b>APRV-UL</b>	Y

**Accessories**

<b>Part number</b>	<b>Description</b>	<b>Multiplier</b>
TK3300	TACHO MOUNTING KIT TK3300	A8
TK3300-HPU	HPU10 MOUNTING KIT 33P/34P TENV	A8

**DC Motor Performance Data**

Record # 352

Typical performance - not guaranteed values

<b>Winding: 33WGZ148-R002</b>		<b>Type: 3327P</b>		<b>Enclosure: TENV</b>	
<b>Nameplate Data</b>			<b>General Characteristics</b>		
<b>Rated Output (HP)</b>	0.5	<b>Armature Resistance @ 25°C</b>	0.664 Ω		
<b>R.P.M.</b>	2500	<b>Voltage Constant</b>	35.76 v/krpm		
<b>Armature Volts</b>	90	<b>Armature Inductance</b>	5.119 mH		
<b>Armature Amps</b>	5	<b>Armature Inertia</b>	6.318 LI <sup>2</sup>		
<b>Field Volts</b>		<b>Temp. Rise @ Rated Load</b>	79°C		
<b>Field Amps</b>					
<b>Rating - Duty</b>	40C AMB-CONT				
<b>Form Factor</b>	1.3				

**Load Characteristics at 90 Armature Volts**

<b>Load Point</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
<b>Armature Amps</b>	0.5	2.5	3.5	4.6	5.4	6.7	8.8
<b>R.P.M.</b>	2526	2469	2447	2426	2415	2375	2332
<b>Torque ( LB-FT )</b>	0	0.5	0.75	1	1.25	1.5	2

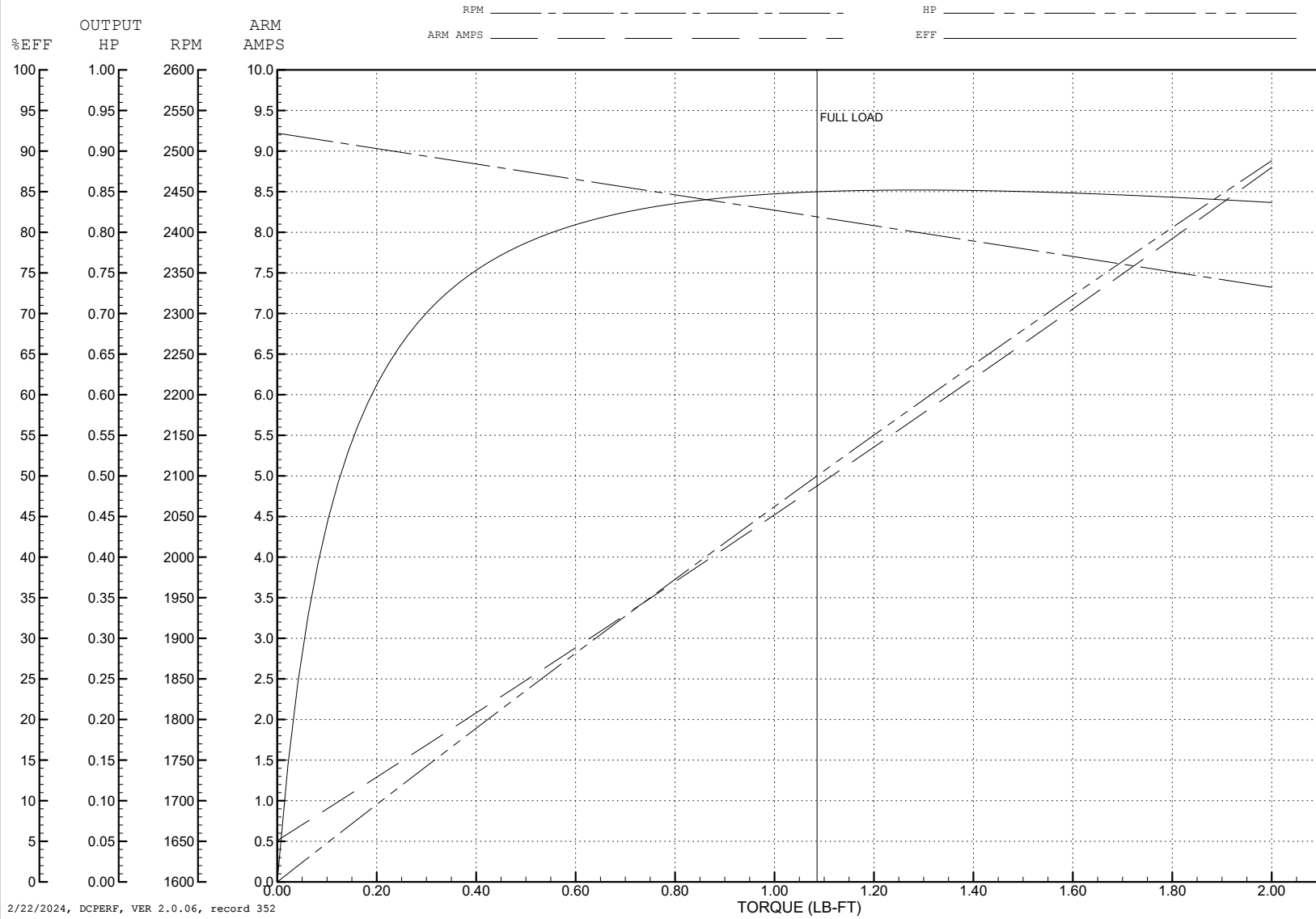
ABB Motors and Mechanical Inc.

WINDING # 33WGZ148

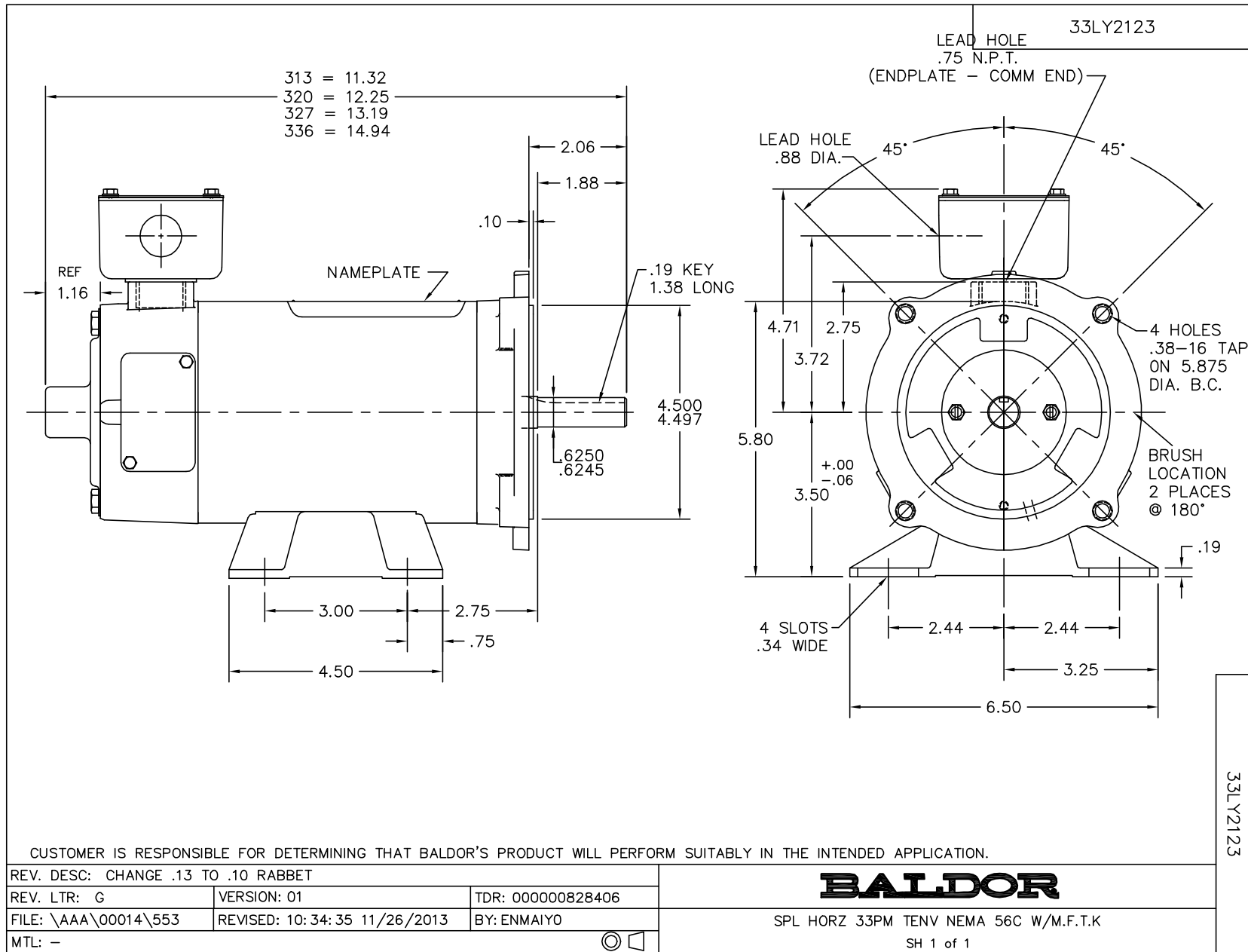
0.5 HP DC 2500 RPM 90 V 3327P

Typical performance - not guaranteed values.

ENCL: TENV DUTY: CONT CL: F

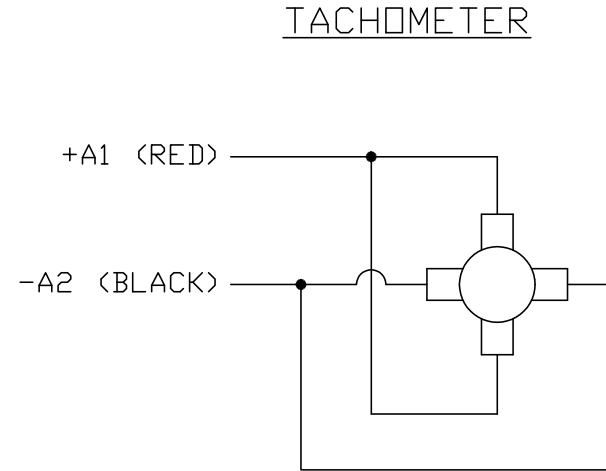
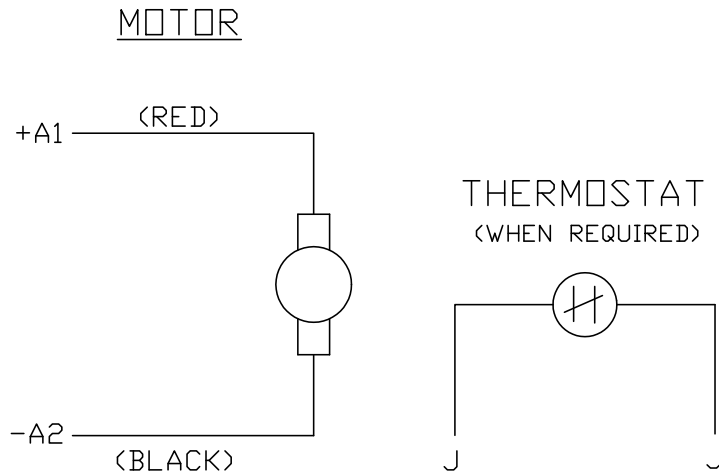


2/22/2024, DCPERF, VER 2.0.06, record 352





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 &..."		
CD0194	SCALE: -	BY: CK	REVISED: 07/28/95
	FILE: AAA00004503	TDR: 0078737	

**BALDOR ELECTRIC Co.**

CD TYPE P DC PERMANENT MAGNET MOTORS AND TACHOMETERS

CD0194