

**BALDOR® • RELIANCE™**

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# Customer information packet

## CDP3316

.33HP, 1750RPM, DC, 56C, 3327P, TENV, F1, N

## Specifications

Armature Voltage	180 V
Base Speed	1750 rpm
Enclosure	TENV
Frame	56C
Frame Material	Steel
Output Power	0.330 HP
Agency Approvals	CE CSA UR
Ambient Temperature	40 °C
Armature Current	1.6 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
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	AE
Type	DC
Mech. spec.	33-2051
Base	
Status	PRD/A
Elec. spec.	33WGZ131
Layout	33LY2051
Eff. date	10-24-2024
CD Diagram	CD0194
Poles	00
Leads	
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>	CDP3316				
<b>SPEC.</b>	33-2051Z131				
<b>HP</b>	.33/.25KW	<b>ENCL</b>	TENV		
<b>RPM</b>	1750 1/MIN				
<b>FRAME</b>	56C	<b>TYPE</b>	3327P		
<b>ARM V</b>	180	<b>ARM A</b>	1.6		
<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	

**DC Motor Performance Data**

Record # 217

Typical performance - not guaranteed values

<b>Winding: 33WGZ131-R001</b>		<b>Type: 3327P</b>	<b>Enclosure: TENV</b>
<b>Nameplate Data</b>		<b>General Characteristics</b>	
<b>Rated Output (HP)</b>	0.33	<b>Armature Resistance @ 25°C</b>	4.331 Ω
<b>R.P.M.</b>	1750		
<b>Armature Volts</b>	180		
<b>Armature Amps</b>	1.6		
<b>Field Volts</b>		<b>Armature Inductance</b>	39.666 mH
<b>Field Amps</b>			
<b>Rating - Duty</b>	40C AMB-CONT		
<b>Form Factor</b>	1.3		

**Load Characteristics at 180 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>	0.18	0.89	1.16	1.53	1.88	2.22	2.87
<b>R.P.M.</b>	1727	1679	1662	1633	1620	1595	1556
<b>Torque ( LB-FT )</b>	0	0.516	0.752	1.01	1.268	1.525	2.02

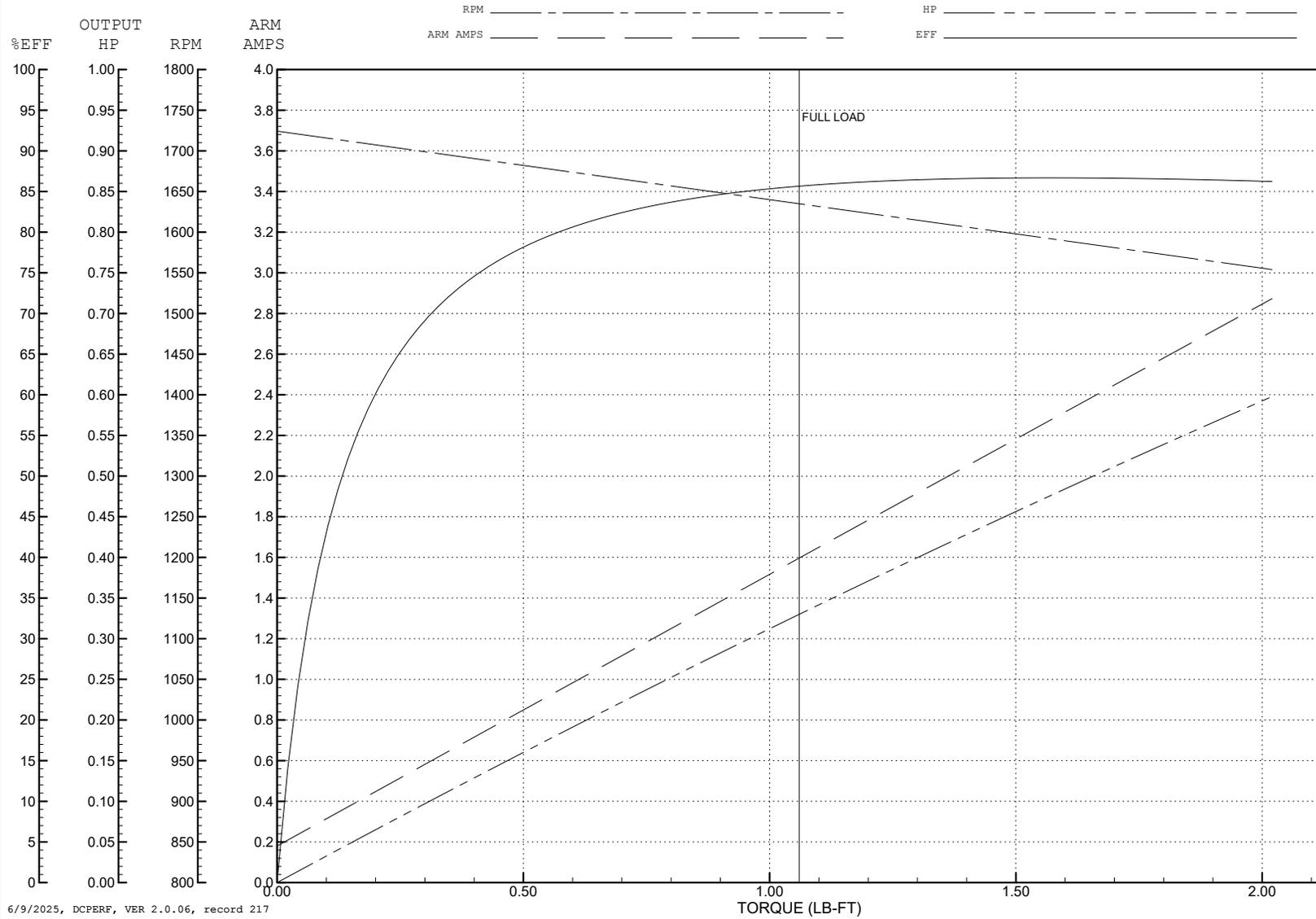
ABB Motors and Mechanical Inc.

WINDING # 33WGZ131

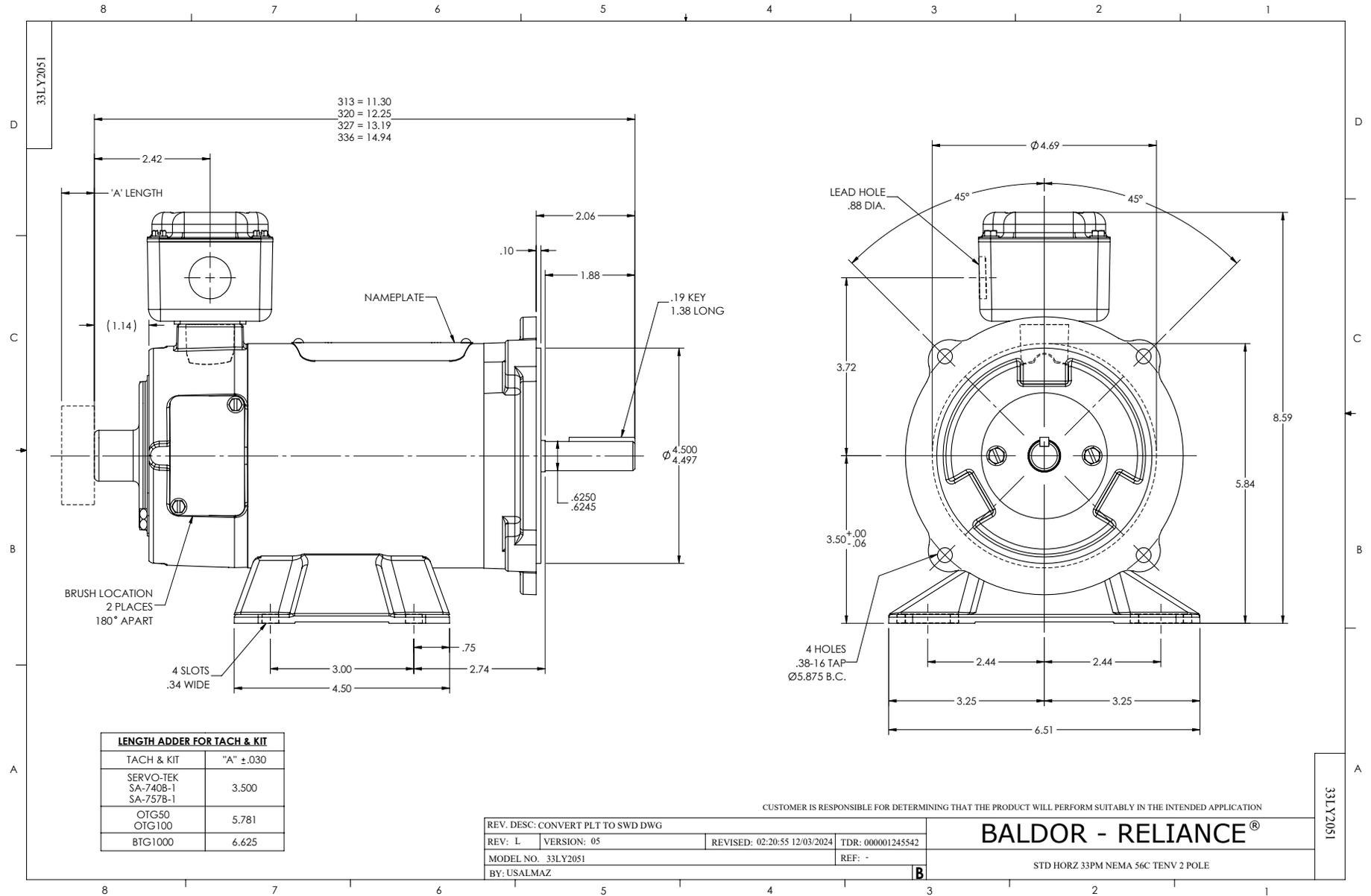
0.33 HP DC 1750 RPM 180 V 3327P

Typical performance - not guaranteed values.

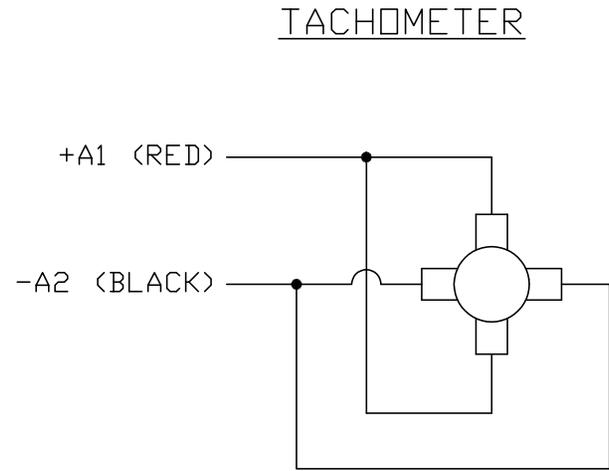
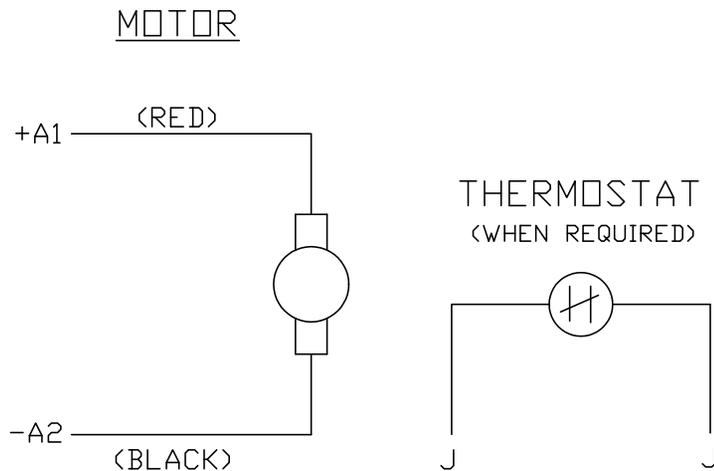
ENCL: TENV DUTY: CONT CL: F



6/9/2025, DCPERF, VER 2.0.06, record 217



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