

ABB BALDOR RELIANCE III

Customer information packet

VDP3316

.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
Ambient Temperature	40 °C
Armature Current	1.6 a
Armature Inertia	6.318 lb-ft ²
Base Indicator	No Mounting
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 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
Service Factor	1.00
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger

Part Detail

Revision	J
Type	DC
Mech. spec.	33-2644
Base	
Status	PRD/A
Elec. spec.	33WGZ131
Layout	33LY2644
Eff. date	10-24-2024
CD Diagram	CD0194
Poles	00
Leads	
Proprietary	False
Created date	01-22-2018

Nameplate

NP0891L			
CAT.NO.	VDP3316		
SPEC.	33-2644Z131		
HP	.33/.25KW	ENCL	TENV
RPM	1750 1/MIN IP44 13KG IC410		
FRAME	56C	TYPE	3327P
ARM V	180	ARM A	1.6
FLD V		FLD A	
INSUL	F	AMB.	40
DUTY	CONT	SUPPLY	1.3
BRG/DE	6203	BRG/ODE	6203
BRUSHES	2/BP5011CV01		
		BLANK	
SER.			
BLANK			
APRV-CE	Y	APRV-CSA	Y
		APRV-UL	Y

DC Motor Performance Data

Record # 217

Typical performance - not guaranteed values

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

Load Characteristics at 180 Armature Volts

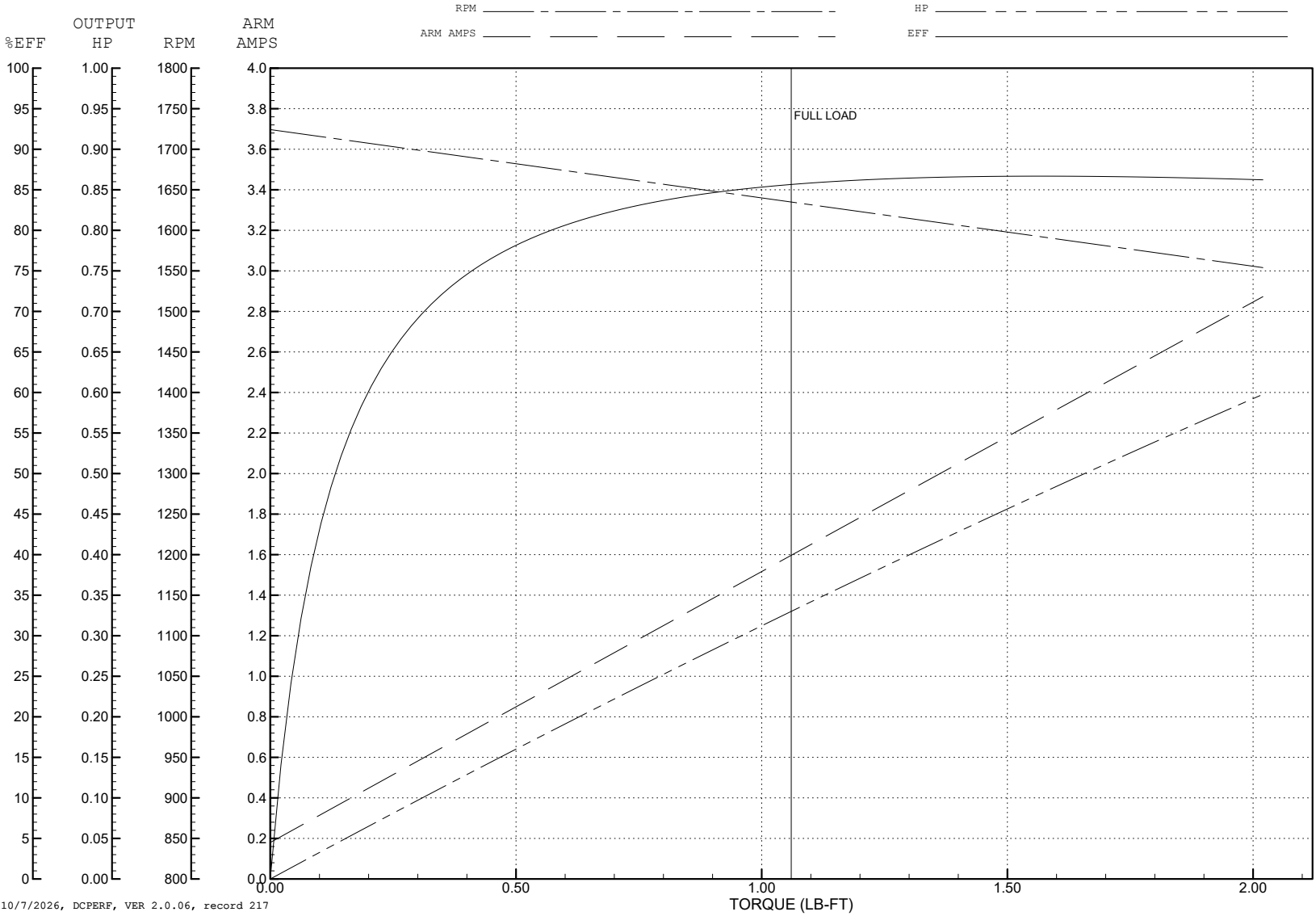
Load Point	1	2	3	4	5	6	7
Armature Amps	0.18	0.89	1.16	1.53	1.88	2.22	2.87
R.P.M.	1727	1679	1662	1633	1620	1595	1556
Torque (LB-FT)	0	0.516	0.752	1.01	1.268	1.525	2.02

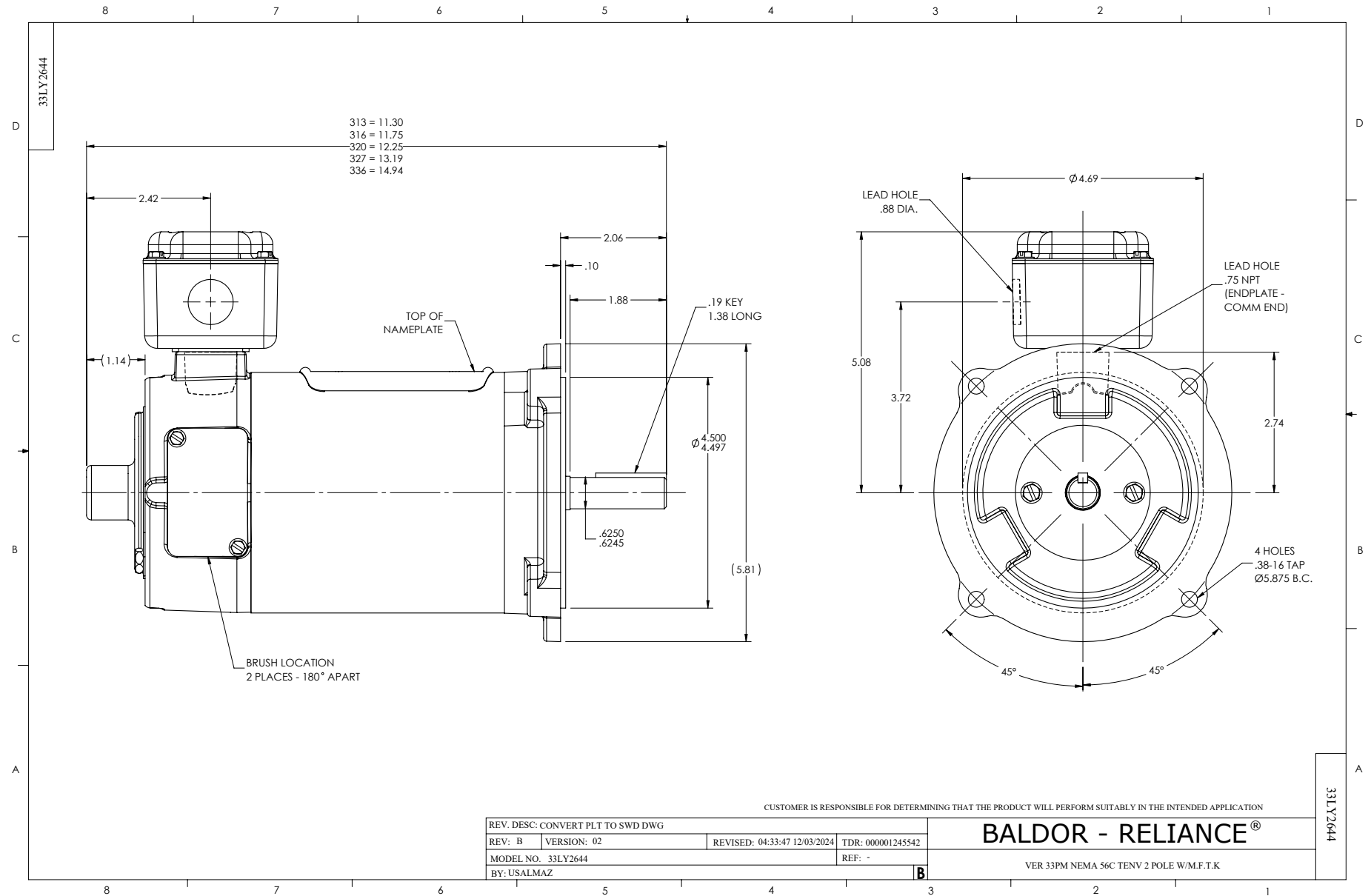
ABB Motors and Mechanical Inc.

WINDING # 33WGZ131

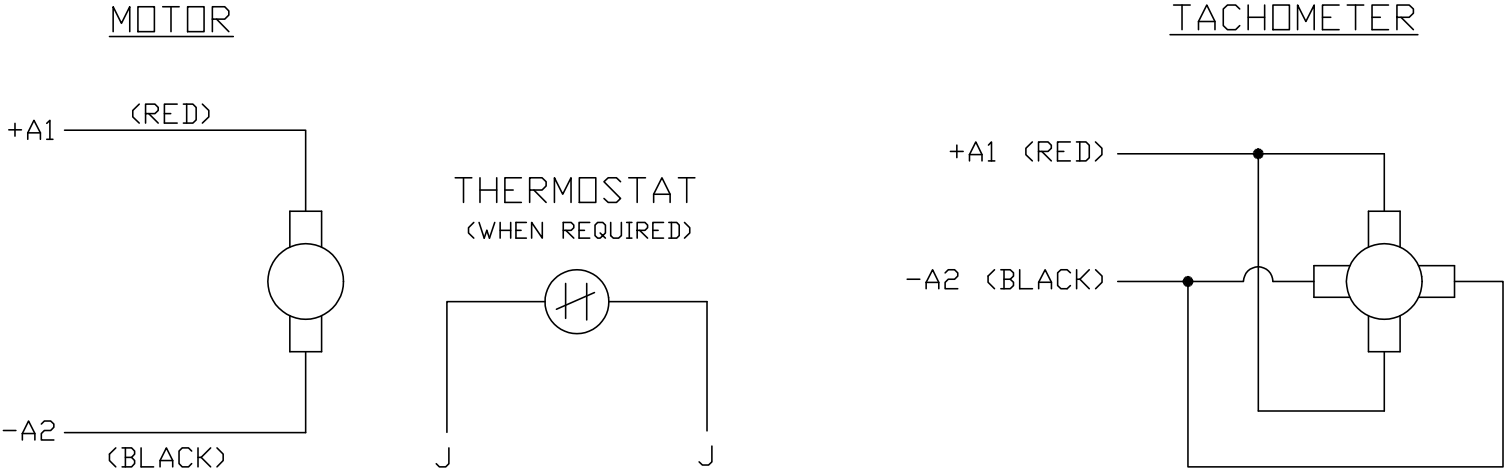
Typical performance - not guaranteed values.

0.33 HP DC 1750 RPM 180 V 3327P
ENCL: TENV DUTY: CONT CL: F





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: -					BALDOR ELECTRIC Co.	
REV:	E	ADDED NOTE "LEAD COLORS FOR REFERENCE ONLY &...				
CD0194		SCALE: -	BY: CK	REVISED: 07/28/95	CD TYPE P DC PERMANENT MAGNET MOTORS AND TACHOMETERS	
		FILE: AAA00004503		TDR: 0078737		

CD0194