ABB BALDOR RELIANCE

Customer information packet

CDP3316

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

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/23/2026 2:40:33 AM

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-ft2
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

Nameplate

NP0891L					
CAT.NO.	CDP3316				
SPEC.	33-2051Z131				
HP	.33/.25KW	**ENCL**	TENV		
RPM	1750 1/MIN				
FRAME	56C	**TYPE**	3327P		
ARM V	180	**ARM A**	1.6		
FLD V		**FLD A**			
INSUL	F	**AMB.**	40		
DUTY	S1 CONT	**SUPPLY**	1.3		
BRG/DE	6203	**BRG/ODE**	6203		
BRUSHES	2/BP5011CV01				
		BLANK			
SER.					
BLANK	IP44 IC410 12KG				
APRV-CE	Y	**APRV-CSA**	Y	**APRV-UL**	Y

Accessories

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

DC Motor Performance Data
Record # 217
Typical performance - not guaranteed values

Winding: 33WGZ131-R001	**Type:** 3327P	**Enclosure:** TENV

Nameplate Data	
Rated Output (HP)	0.33
R.P.M.	1750
Armature Volts	180
Armature Amps	1.6
Field Volts	
Field Amps	
Rating - Duty	40C AMB-CONT
Form Factor	1.3

General Characteristics	
Armature Resistance @ 25ºC	4.331 Ω
Armature Inductance	39.666 mH

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

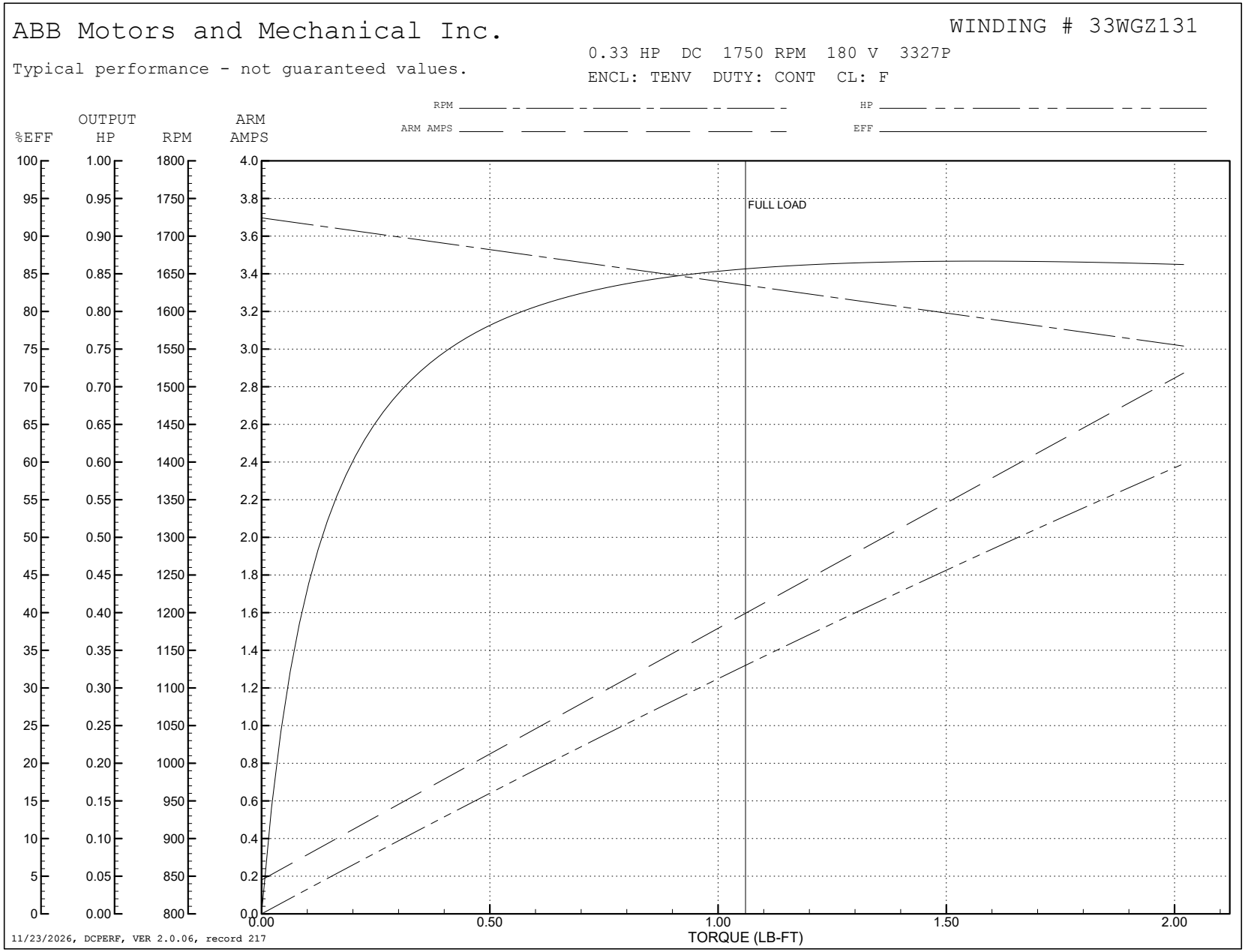
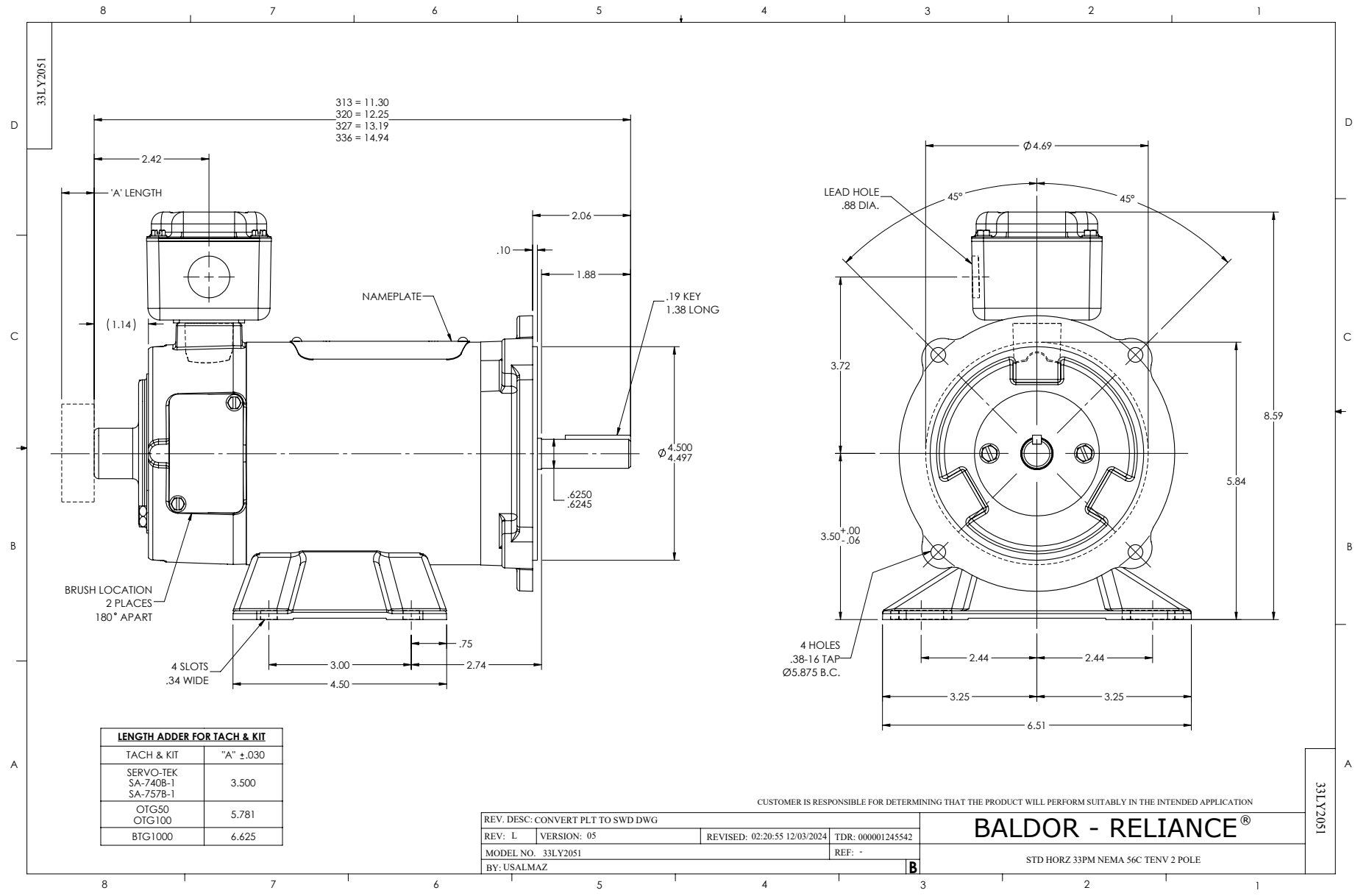


ABB Motors and Mechanical Inc.
WINDING # 33WGZ131
Typical performance - not guaranteed values.
0.33 HP DC 1750 RPM 180 V 3327P
ENCL: TENV DUTY: CONT CL: F
RPM
HP
ARM AMPS
EFF
%EFF
OUTPUT HP
RPM
ARM AMPS
FULL LOAD
TORQUE (LB-FT)
0.00
0.50
1.00
1.50
2.00
11/23/2026, DCPERF, VER 2.0.06, record 217



LENGTH ADDER FOR TACH & KIT	
TACH & KIT	"A" ±.030
SERVO-TEK SA-740B-1 SA-757B-1	3.500
OTG50 OTG100	5.781
BTG1000	6.625

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

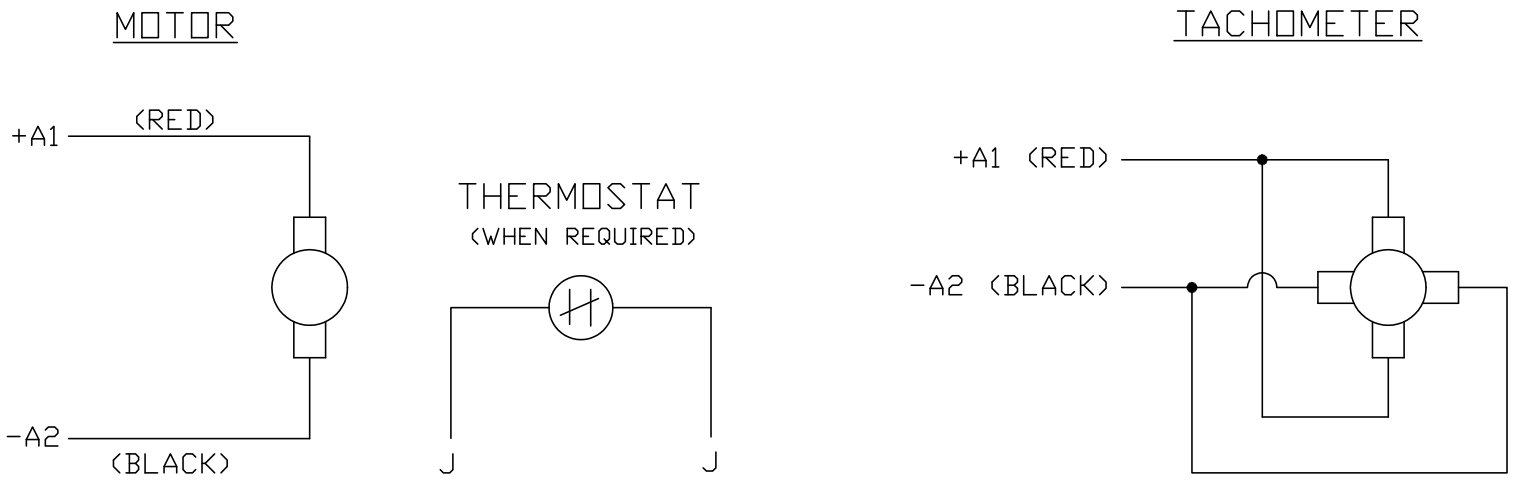
REV. DESC: CONVERT PLT TO SWD DWG			
REV: L	VERSION: 05	REVISED: 02:20:55 12/03/2024	TDR: 000001245542
MODEL NO. 33LY2051			REF: -
BY: USALMAZ			B

BALDOR - RELIANCE®

STD HORZ 33PM NEMA 56C TENV 2 POLE

33LY2051

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.

CD0194

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	