ABB BALDOR RELIANCE

Customer information packet

CDPT3316

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

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11/26/2026 10:22:31 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
	WEEE
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	TACHOMETER
Heater Indicator	No Heater
Insulation Class	F
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	2 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	14.99 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 Ground Indicator	No Shaft Grounding

Part Detail

Revision	H
Type	DC
Mech. spec.	33-2657
Base	
Status	PRD/A
Elec. spec.	33WGZ131
Layout	33LY2657
Eff. date	10-24-2024
CD Diagram	CD0194
Poles	00
Leads	
Proprietary	False
Created date	06-25-2019

Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger

Nameplate

NP0891L							
CAT.NO.	CDPT3316						
SPEC.	33-2657Z131						
HP	.33/KW.25		**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	CONT		**SUPPLY**	1.3			
BRG/DE	6203		**BRG/ODE**	6203			
BRUSHES	2/BP5011CV01						
	IP44		**BLANK**	KG14			
SER.							
BLANK	IC410						
APRV-CE	Y	**APRV-CSA**	Y	**APRV-UL**	Y		

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

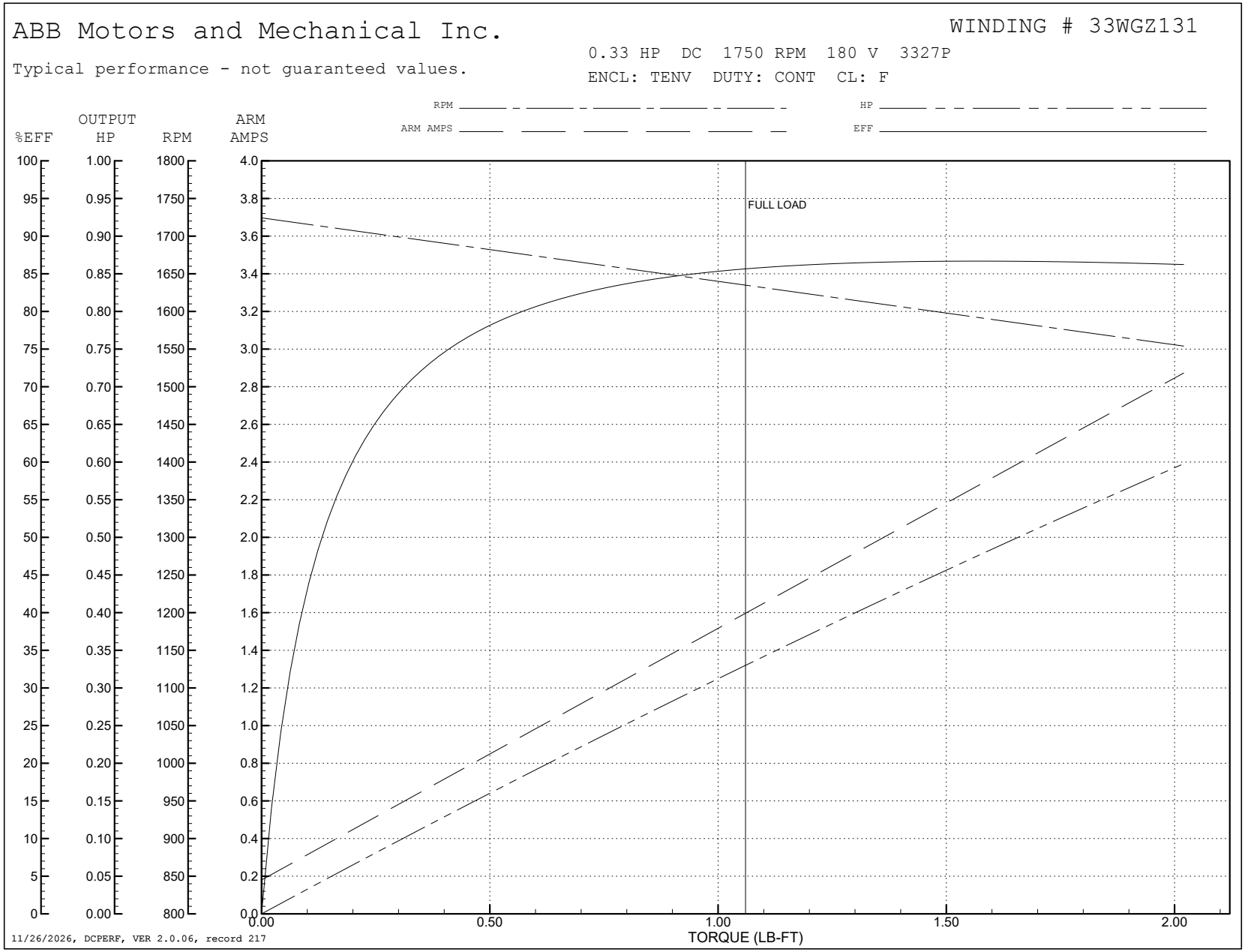
Winding: 33WGZ131-R001 **Type:** 3327P **Enclosure:** TENV

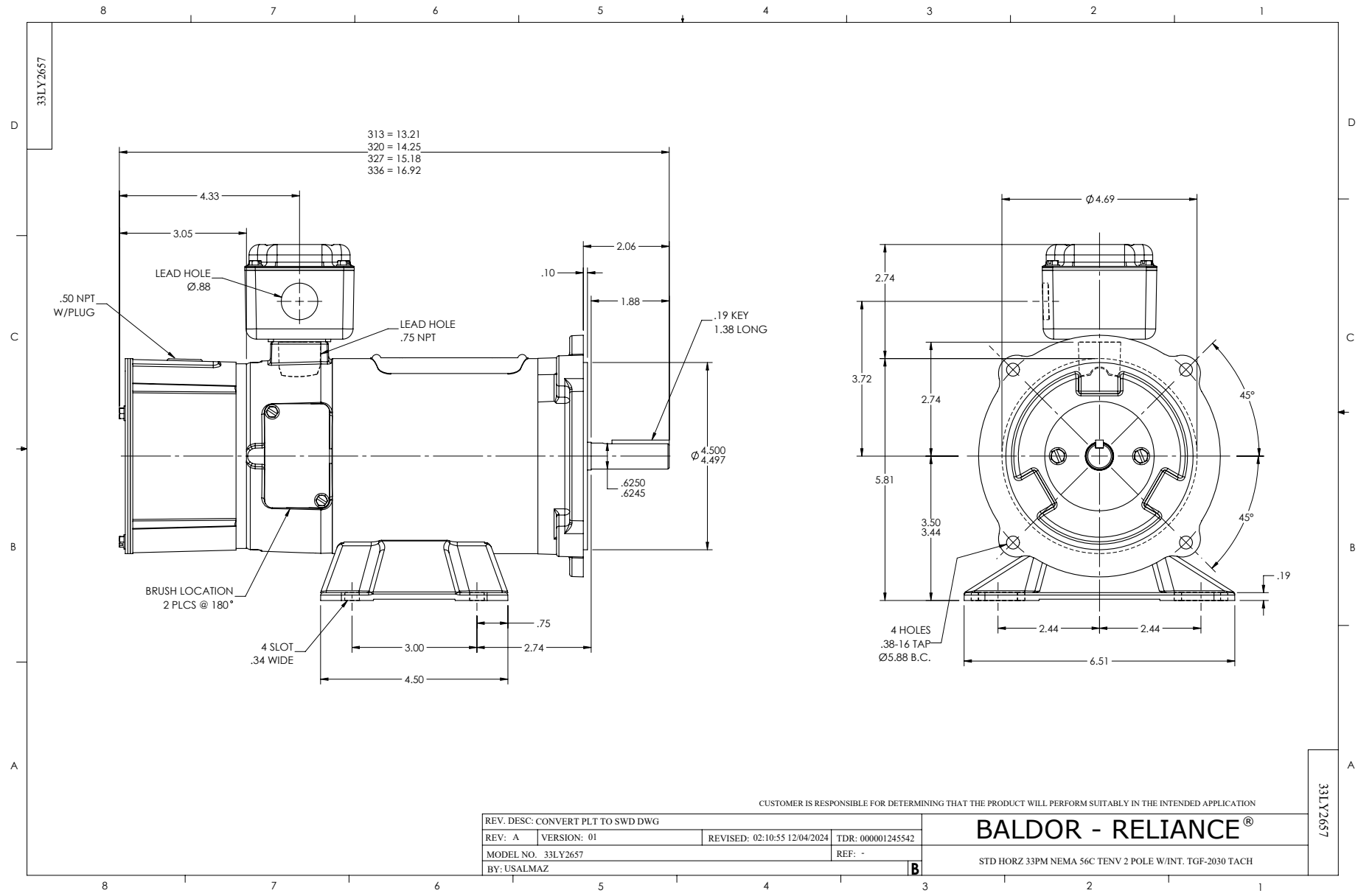
Nameplate Data	
Rated Output (HP)	0.33
R.P.M.	1750
Armature Volts	180
Armature Amps	1.6
Field Volts	
Field Amps	
Rating - Duty	40C AMB-CONT
Form Factor	1.3

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

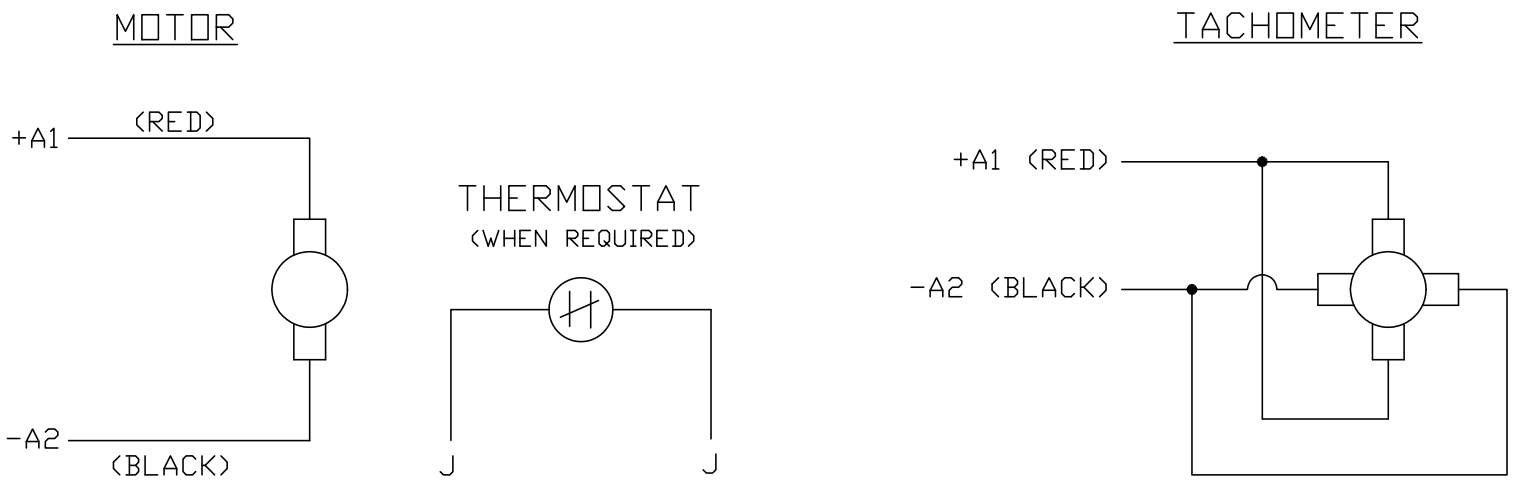
Load Characteristics at 180 Armature Volts

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
0.33 HP DC 1750 RPM 180 V 3327P
ENCL: TENV DUTY: CONT CL: F
Typical performance - not guaranteed values.
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
11/26/2026, DCPERF, VER 2.0.06, record 217


33LY2657
313 = 13.21
320 = 14.25
327 = 15.18
336 = 16.92
4.33
3.05
2.06
.10
1.88
LEAD HOLE
Ø.88
.50 NPT
W/PLUG
LEAD HOLE
.75 NPT
.19 KEY
1.38 LONG
Ø 4.500
4.497
.6250
.6245
BRUSH LOCATION
2 PLCS @ 180°
4 SLOT
.34 WIDE
.75
3.00
2.74
4.50
Ø 4.69
2.74
3.72
2.74
5.81
3.50
3.44
45°
45°
.19
4 HOLES
.38-16 TAP
Ø5.88 B.C.
2.44
2.44
6.51
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT PLT TO SWD DWG
REV: A
VERSION: 01
REVISED: 02:10:55 12/04/2024
TDR: 000001245542
MODEL NO. 33LY2657
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
STD HORZ 33PM NEMA 56C TENV 2 POLE W/INT. TGF-2030 TACH
33LY2657

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	