ABB BALDOR RELIANCE

Customer information packet

CDPWD3326

.5HP, 1750RPM, DC, 56C, 3336P, TENV, F1

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11/16/2026 6:42:57 AM

Specifications

Armature Voltage	180 V
Base Speed	1750 rpm
Enclosure	TENV
Frame	56C
Frame Material	Steel
Output Power	0.500 HP
Agency Approvals	CE
	CSA
	UR
Ambient Temperature	40 °C
Armature Current	2.5 a
Armature Inertia	8.424 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, A
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	14.94 IN
Product Family	Wash Down
Pulley End Bearing Type	Sealed Bearing
Service Factor	1.00
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible

Part Detail

Revision	AU
Type	DC
Mech. spec.	33-2154
Base	
Status	PRD/A
Elec. spec.	33WGZ139
Layout	33LY2154
Eff. date	08-20-2024
CD Diagram	CD0194
Poles	00
Leads	2#18 A 4.5" OUT MTR Y
Proprietary	False
Created date	01-01-0001

Shaft Slinger Indicator Shaft Slinger

Nameplate

NP1509						
CAT.NO.	CDPWD3326					
SPEC.	33-2154Z139					
HP	.5	**ENCL**	TENV			
RPM	1750 1/MIN IC410					
FRAME	56C	**TYPE**	3336P			
ARM V	180	**ARM A**	2.5			
FLD V		**FLD A**				
INSUL	F	**AMB.**	40			
DUTY	CONT	**SUPPLY**	1.3			
BRG/DE	6203	**BRG/ODE**	6203			
BRUSHES	2/BP5011CV01					
	IP55	**BLANK**				
SER.						
BLANK	KW.37 KG14					
APRV-CSA	Y	**APRV-UL**	Y	**APRV-CE**	Y	

DC Motor Performance Data
Record # 2018
Typical performance - not guaranteed values

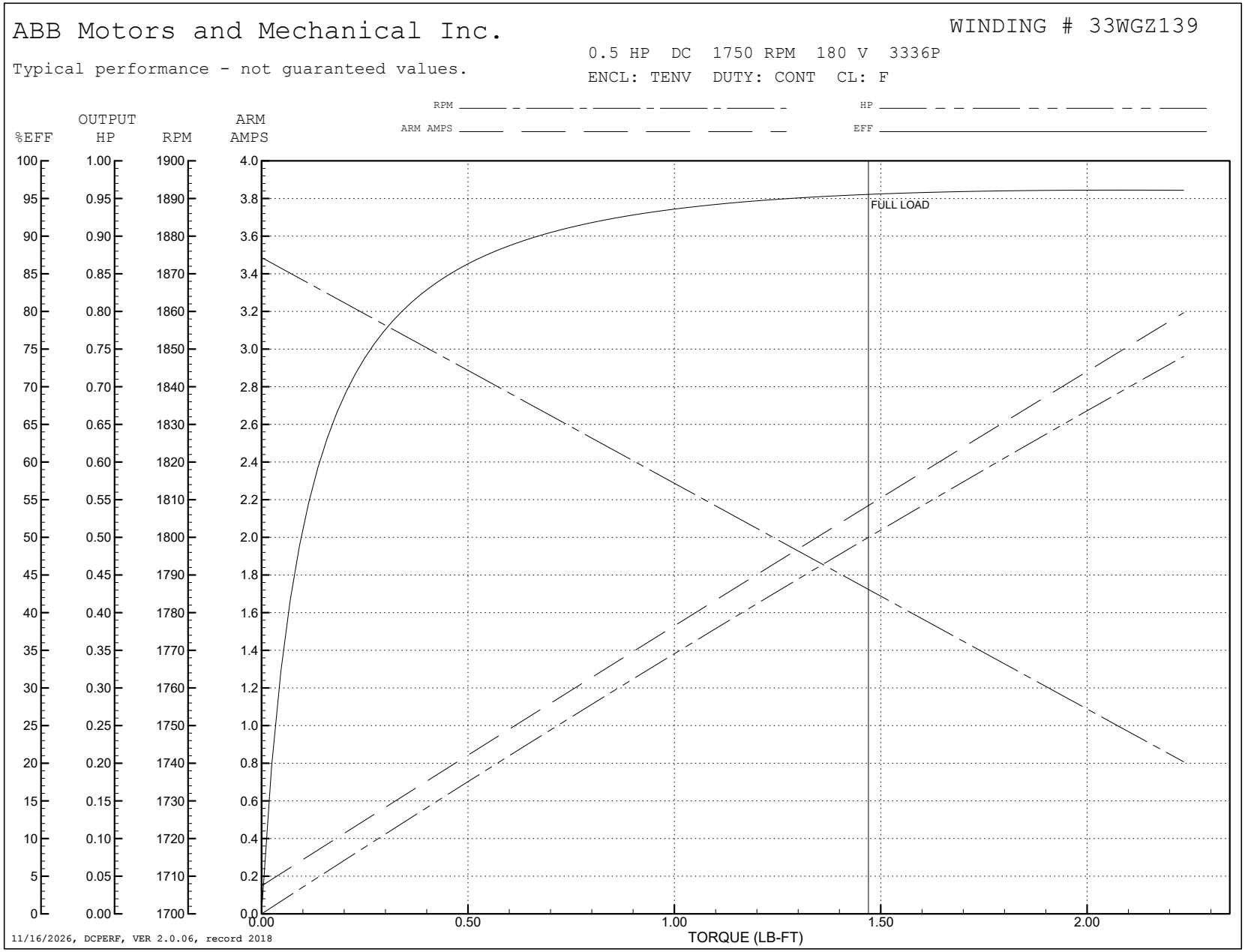
Winding: 33WGZ139-R010	**Type:** 3336P	**Enclosure:** TENV

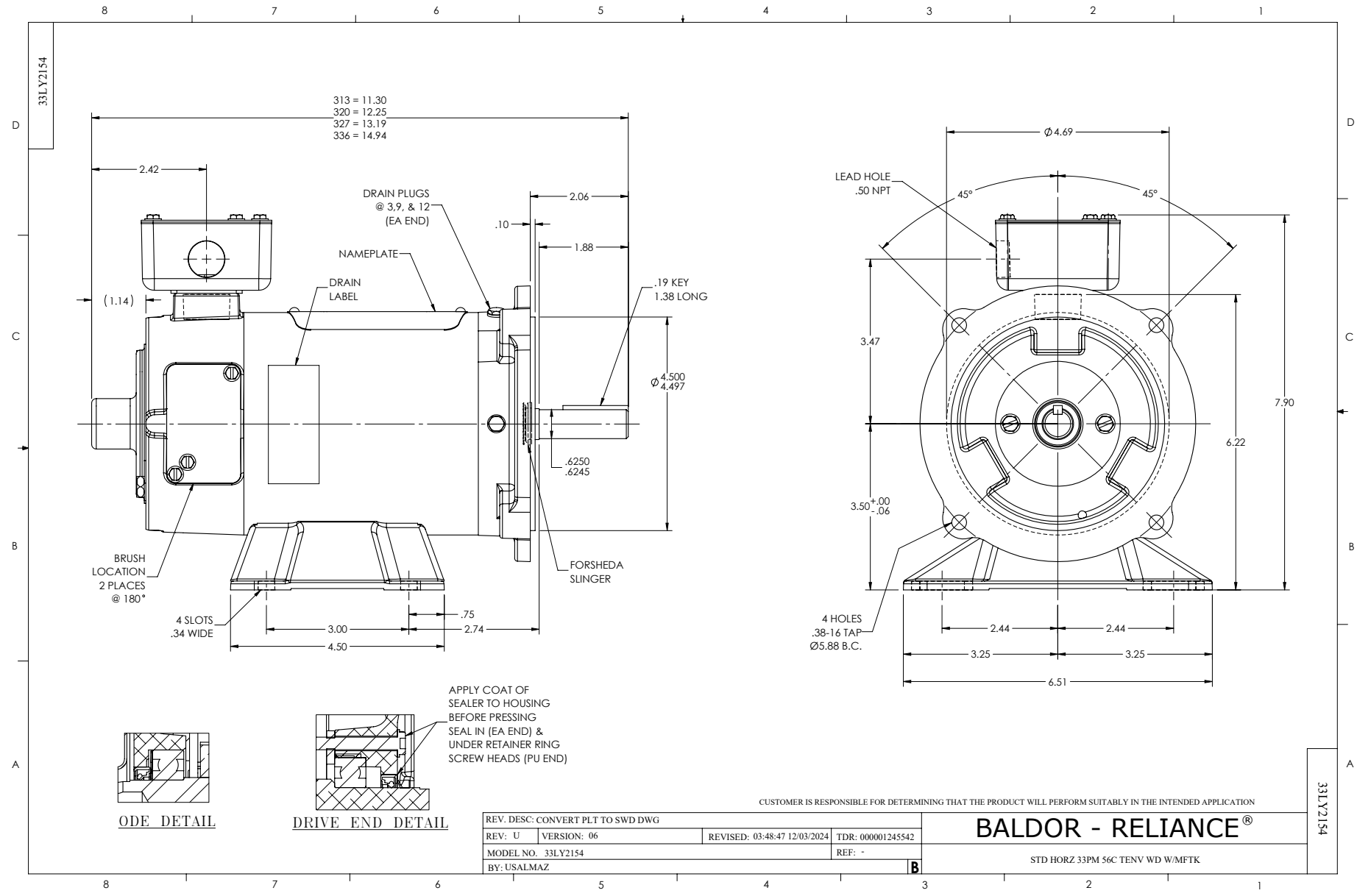
Nameplate Data	
Rated Output (HP)	0.5
R.P.M.	1750
Armature Volts	180
Armature Amps	2.5
Field Volts	
Field Amps	
Rating - Duty	40C AMB-CONT
Form Factor	1.3

General Characteristics	
Armature Resistance @ 25ºC	3.08 Ω
Voltage Constant	95.88 v/krpm
Armature Inductance	28.39697 mH
Armature Inertia	8.4241 LI²

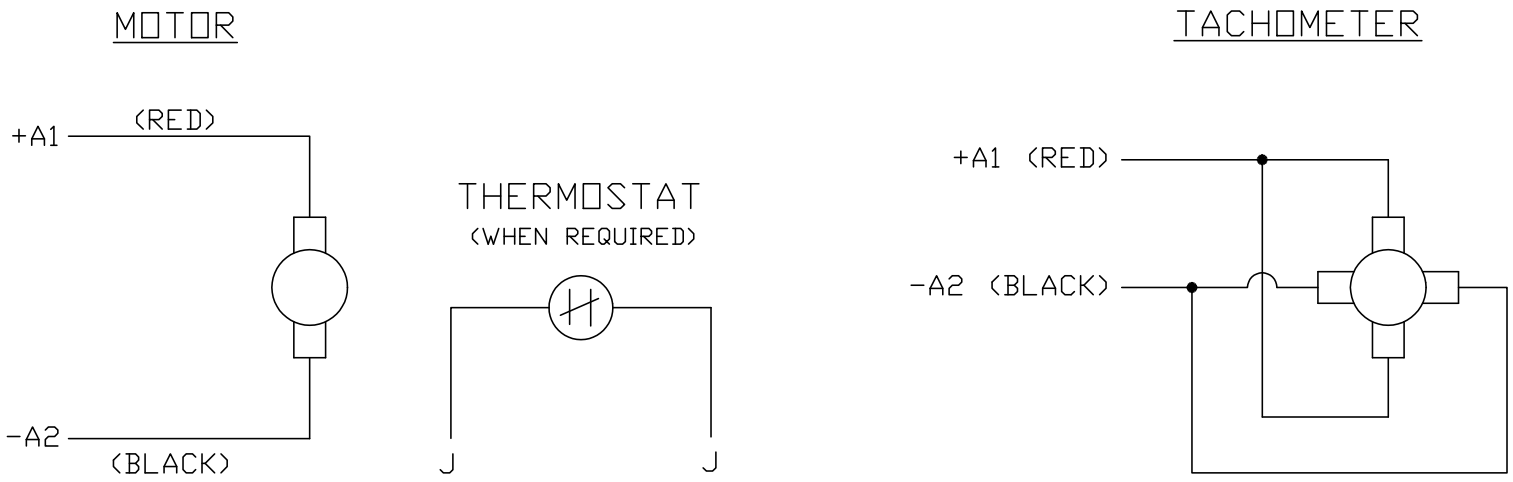
Load Characteristics at 180 Armature Volts

Load Point	**1**	**2**	**3**	**4**	**5**	**6**	**7**
Armature Amps	0.15	0.65	1.2	1.7	2.2	2.7	3.2
R.P.M.	1880	1848	1831	1803	1781	1762	1745
Torque (LB-FT)	0	0.365	0.752	1.117	1.504	1.869	2.234


ABB Motors and Mechanical Inc.
WINDING # 33WGZ139
Typical performance - not guaranteed values.
0.5 HP DC 1750 RPM 180 V 3336P
ENCL: TENV DUTY: CONT CL: F
RPM
ARM AMPS
HP
EFF
%EFF
OUTPUT HP
RPM
ARM AMPS
FULL LOAD
TORQUE (LB-FT)
11/16/2026, DCPERF, VER 2.0.06, record 2018


33LY2154
313 = 11.30
320 = 12.25
327 = 13.19
336 = 14.94
2.42
DRAIN PLUGS
@ 3,9, & 12
(EA END)
2.06
.10
1.88
NAMEPLATE
DRAIN
LABEL
(1.14)
.19 KEY
1.38 LONG
Ø 4.500
4.497
.6250
.6245
BRUSH
LOCATION
2 PLACES
@ 180°
FORSHEDA
SLINGER
4 SLOTS
.34 WIDE
3.00
.75
2.74
4.50
Ø 4.69
LEAD HOLE
.50 NPT
45°
45°
3.47
7.90
6.22
3.50 +.00 -.06
4 HOLES
.38-16 TAP
Ø5.88 B.C.
2.44
2.44
3.25
3.25
6.51
APPLY COAT OF
SEALER TO HOUSING
BEFORE PRESSING
SEAL IN (EA END) &
UNDER RETAINER RING
SCREW HEADS (PU END)
ODE DETAIL
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT PLT TO SWD DWG
REV: U
VERSION: 06
REVISED: 03:48:47 12/03/2024
TDR: 000001245542
MODEL NO. 33LY2154
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
STD HORZ 33PM 56C TENV WD W/MFTK
33LY2154

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	