

ABB BALDOR RELIANCE III

Customer information packet

VDP3330

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

Specifications

Armature Voltage	90 V
Base Speed	1750 rpm
Enclosure	TENV
Frame	56C
Frame Material	Steel
Output Power	0.500 HP
Ambient Temperature	40 °C
Armature Current	4.8 a
Armature Inertia	14.047 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	14.94 IN
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
RoHS Status	ROHS COMPLIANT
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	N
Type	DC
Mech. spec.	33-2644
Base	
Status	PRD/A
Elec. spec.	33WGZ122
Layout	33LY2644
Eff. date	10-24-2024
CD Diagram	CD0194
Poles	00
Leads	
Proprietary	False
Created date	01-23-2018

Nameplate

NP0891L					
CAT.NO.	VDP3330				
SPEC.	33-2644Z122				
HP	.5/KW.37	ENCL		TENV	
RPM	1750 1/MIN				
FRAME	56C	TYPE		3336P	
ARM V	90	ARM A		4.8	
FLD V		FLD A			
INSUL	F	AMB.		40	
DUTY	CONT	SUPPLY		1.3	
BRG/DE	6203	BRG/ODE		6203	
BRUSHES	2/BP5011T01				
	IP44	BLANK		KG15	
SER.					
BLANK	IC410				
APRV-CE	Y	APRV-CSA	Y	APRV-UL	Y

DC Motor Performance Data

Record # 2408

Typical performance - not guaranteed values

Winding: 33WGZ122-R001		Type: 3336P	Enclosure: TENV
Nameplate Data		General Characteristics	
Rated Output (HP)	0.5	Armature Resistance @ 25°C	1.163 Ω
R.P.M.	1750		
Armature Volts	90	Voltage Constant	47.81 v/krpm
Armature Amps	4.8		
Field Volts		Armature Inductance	14.506 mH
Field Amps		Armature Inertia	14.05 LI ²
Rating - Duty	40C AMB-CONT		
Form Factor	1.3		

Load Characteristics at 90 Armature Volts

Load Point	1	2	3	4	5	6	7
Armature Amps	0.26	1.45	2.56	3.62	4.65	5.79	7
R.P.M.	1853	1777	1721	1658	1629	1579	1519
Torque (LB-FT)	0	0.38	0.76	1.14	1.5	1.9	2.28

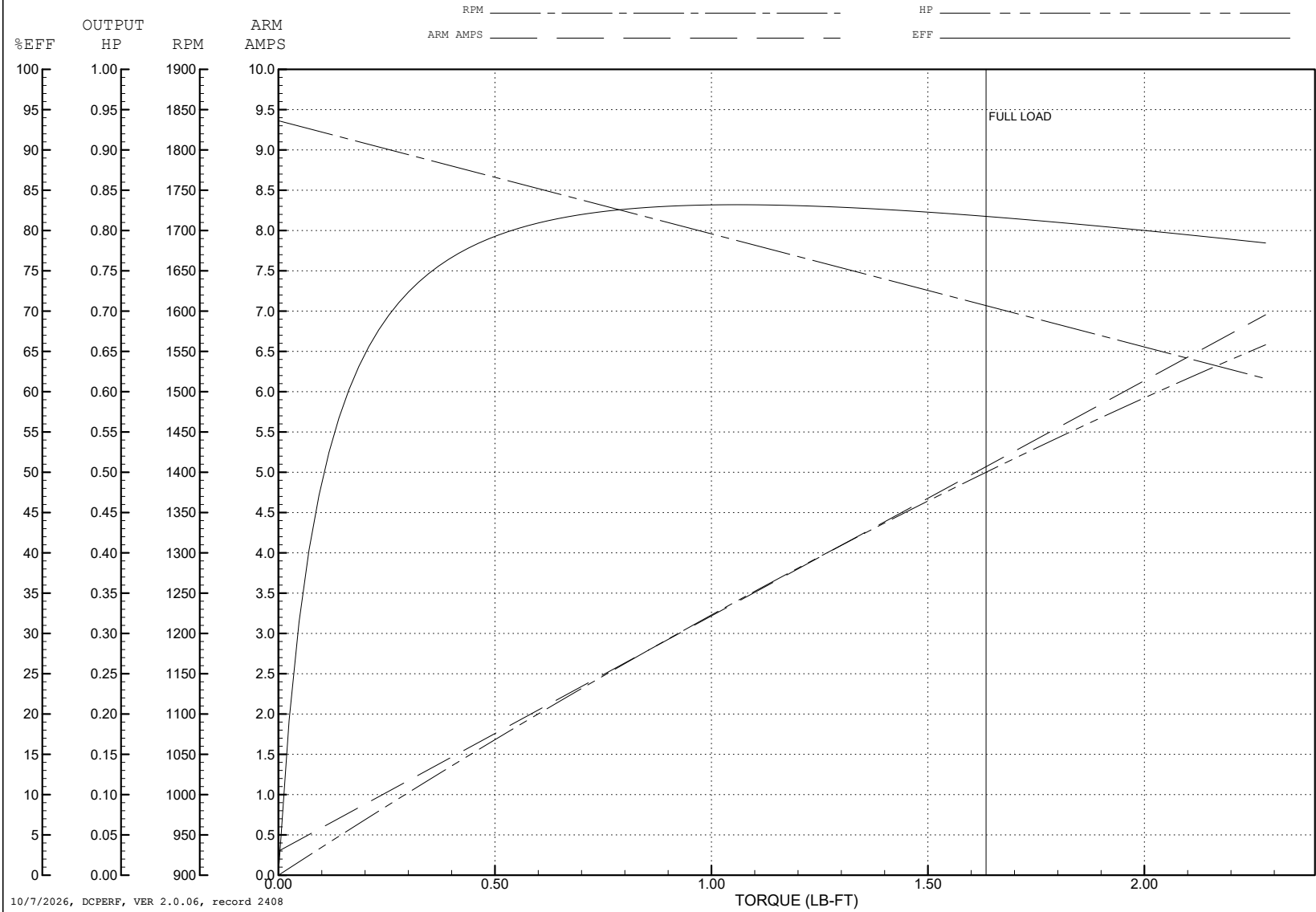
ABB Motors and Mechanical Inc.

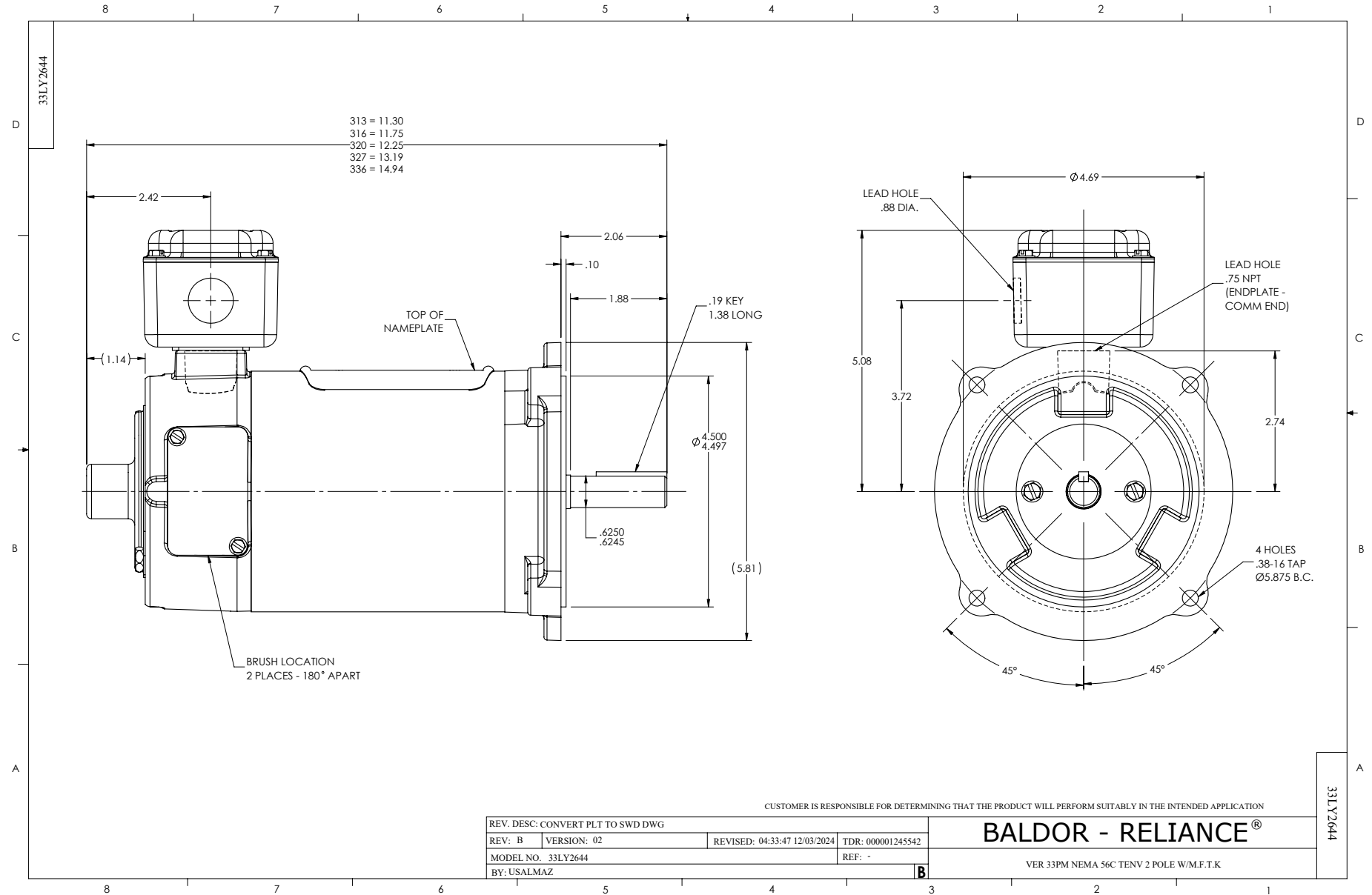
WINDING # 33WGZ122

Typical performance - not guaranteed values.

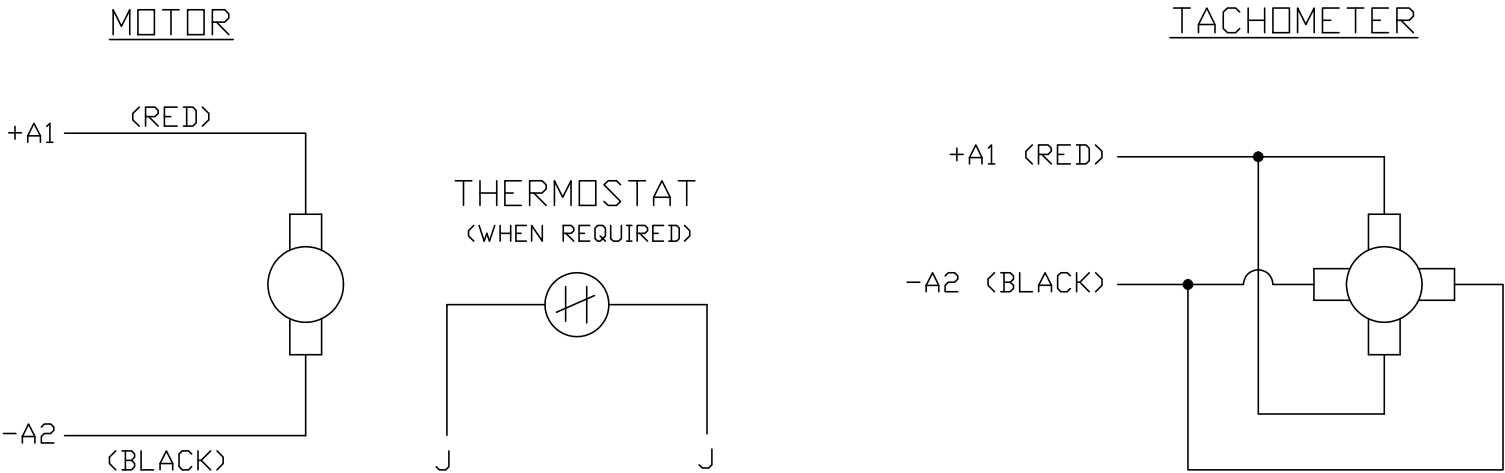
0.5 HP DC 1750 RPM 90 V 3336P

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: -

REV: E

ADDED NOTE "LEAD COLORS FOR REFERENCE ONLY &..."

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SCALE: -

BY: CK

REVISED: 07/28/95

FILE: AAA00004503

TDR: 0078737

BALDOR ELECTRIC Co.

CD TYPE P DC PERMANENT MAGNET MOTORS AND TACHOMETERS

CD0194