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# Customer information packet

## CDPX3436

.75HP, 1750RPM, DC, 56C, X3435P, XPFC, F1

Class - CLI GP D; CLII GP F,G

Division -

## Specifications

Armature Voltage	180 V
Base Speed	1750 rpm
Enclosure	XPFC
Frame	56C
Frame Material	Steel
Haz Area Class and Group	CLI GP D; CLII GP F,G
Output Power	0.750 HP
Agency Approvals	CSA UL UR
Ambient Temperature	40 °C
Armature Current	3.5 a
Armature Inertia	13.657 lb-ft <sup>2</sup>
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Drip Cover	No Drip Cover
Duty Rating	CONT
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
Insulation Class	F
Lifting Lugs	No Lifting Lugs
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	2 @ 14 AWG, A
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	15.87 IN
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Service Factor	1.00
Shaft Diameter	0.625 IN

## Part detail

Revision	AG
Type	DC
Mech. spec.	34-6519
Base	
Status	PRD/A
Elec. spec.	34WG3865
Layout	34LY6519
Eff. date	06-15-2023
CD Diagram	CD0194
Poles	00
Leads	2#14 A,2#18 JJ Y
Proprietary	False
Created date	01-01-0001

<b>Shaft Extension Location</b>	<b>Pulley End</b>
<b>Shaft Ground Indicator</b>	<b>No Shaft Grounding</b>
<b>Shaft Rotation</b>	<b>Reversible</b>
<b>Shaft Slinger Indicator</b>	<b>No Slinger</b>

**Nameplate**

<b>NP0727XPSL</b>			
<b>NO.</b>			
<b>SER.</b>			
<b>SPEC.</b>	34-6519-3865G1		
<b>CAT.NO.</b>	CDPX3436	<b>T. CODE</b>	T3C
<b>HP</b>	.75	<b>ENCL</b>	XPFC
<b>RPM</b>	1750		
<b>FRAME</b>	56C	<b>TYPE</b>	3435P
<b>ARM V</b>	180	<b>ARM A</b>	3.5
<b>FLD V</b>		<b>FLD A</b>	
<b>INSUL</b>	F	<b>AMB.</b>	40
<b>DUTY</b>	CONT	<b>SUPPLY</b>	1.5
<b>BRG/DE</b>	6203	<b>BRG/ODE</b>	6203
<b>BRUSHES</b>	2/BP5011CV01		
<b>BLANK</b>			

**DC Motor Performance Data**

Record # 1431

Typical performance - not guaranteed values

<b>Winding: 34WG3865-R013</b>		<b>Type: 3435P</b>	<b>Enclosure: TEFC</b>	
<b>Nameplate Data</b>		<b>General Characteristics</b>		
<b>Rated Output (HP)</b>	0.75	<b>Armature Resistance @ 25°C</b>	1.9971 Ω	
<b>R.P.M.</b>	1750	<b>Voltage Constant</b>	95.09 v/krpm	
<b>Armature Volts</b>	180	<b>Armature Inertia</b>	13.657 LI <sup>2</sup>	
<b>Armature Amps</b>	3.5			
<b>Field Volts</b>				
<b>Field Amps</b>				
<b>Rating - Duty</b>	40C AMB-CONT			
<b>Form Factor</b>	1.5			

**Load Characteristics at 180 Armature Volts**

<b>Load Point</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
<b>Armature Amps</b>	0.23	1.41	2.52	3.66	4.83	7.05	9.26
<b>R.P.M.</b>	1870	1829	1794	1755	1720	1643	1590
<b>Torque ( LB-FT )</b>	0	0.75	1.51	2.26	3.05	4.55	6.03

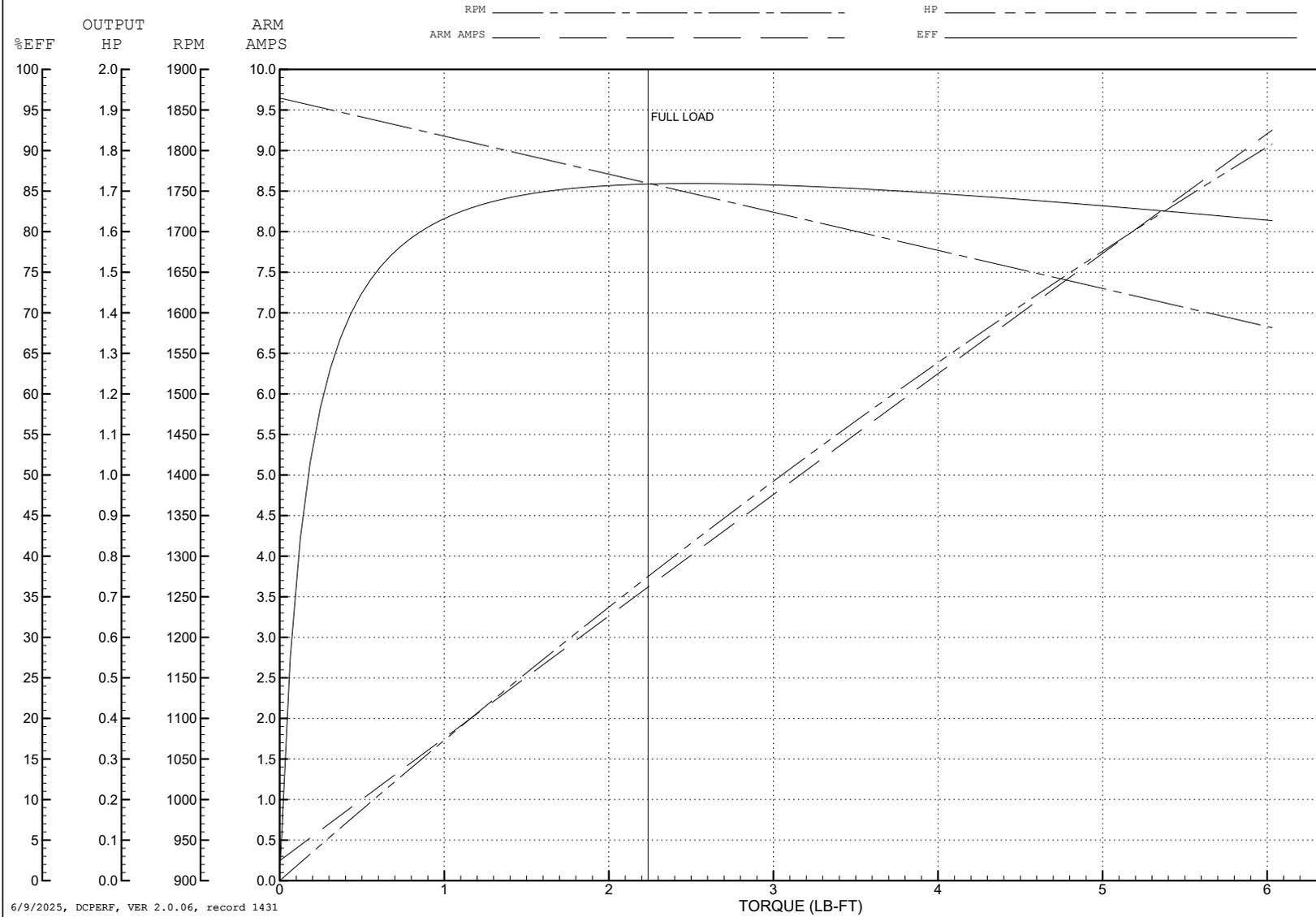
ABB Motors and Mechanical Inc.

WINDING # 34WG3865

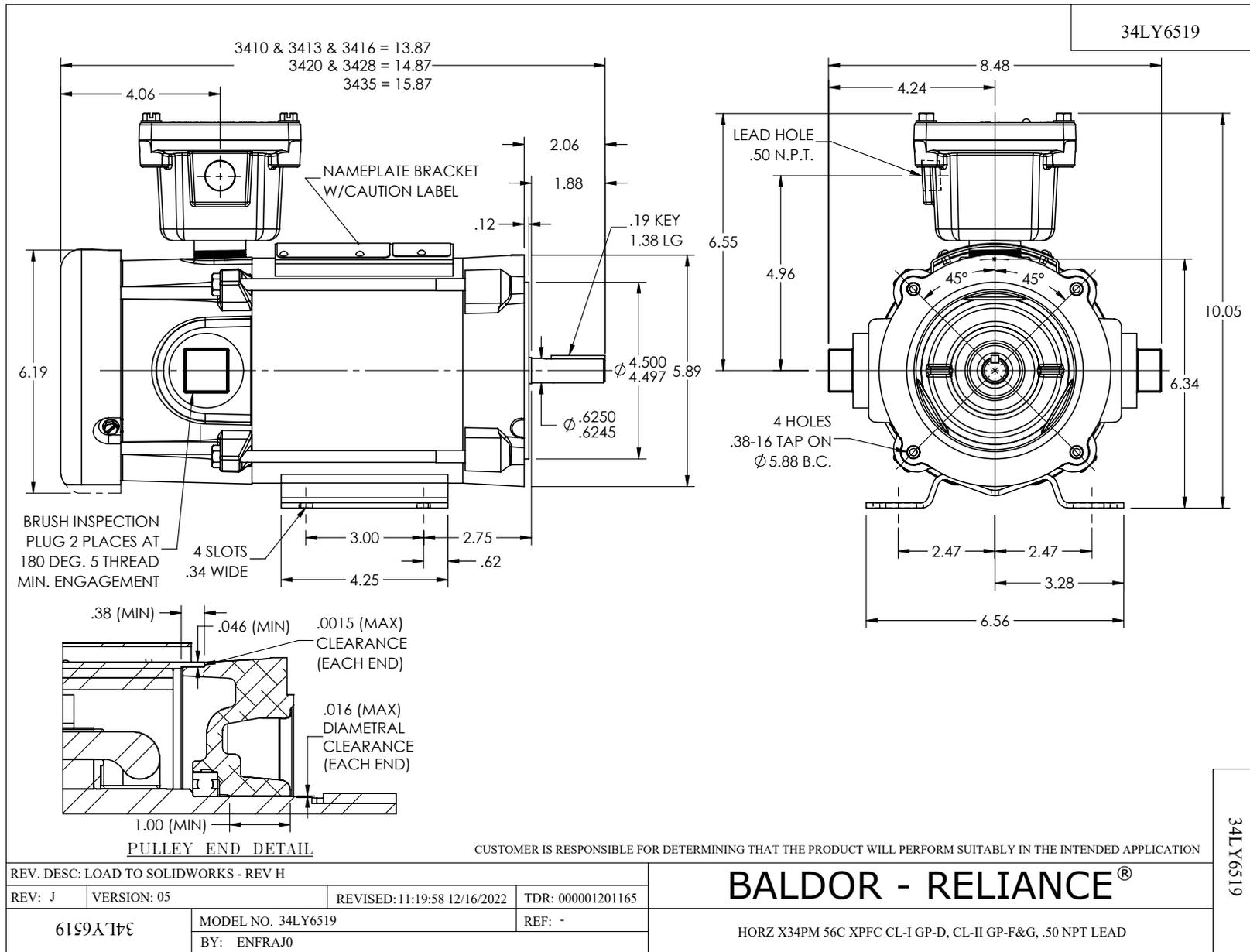
Typical performance - not guaranteed values.

0.75 HP DC 1750 RPM 180 V 3435P

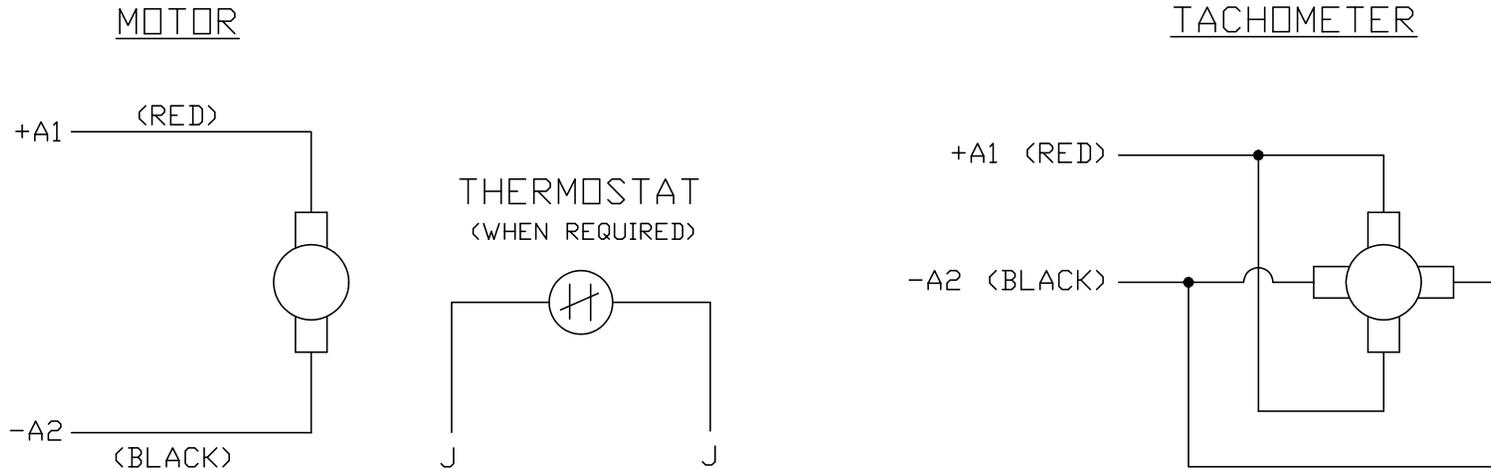
ENCL: TEFC DUTY: CONT CL: F



6/9/2025, DCPERF, VER 2.0.06, record 1431



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 &..."		
CD0194	SCALE: -	BY: CK	REVISED: 07/28/95
	FILE: AAA00004503	TDR: 0078737	

**BALDOR ELECTRIC Co.**

CD TYPE P DC PERMANENT MAGNET MOTORS AND TACHOMETERS

CD0194