

**BALDOR • RELIANCE**

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# Customer information packet

## CDPX3545

1HP, 1750RPM, DC, 56C, X3536P, XPFC, F1

Class - CLI GP D; CLII GP F,G

Division -

## Specifications

Armature Voltage	90 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	1.000 HP
Agency Approvals	CSA UL UR
Ambient Temperature	40 °C
Armature Current	9.6 a
Armature Inertia	30.342 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
Lifting Lugs	No Lifting Lugs
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	2 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	18.36 IN
Product Family	Hazardous Location Motor
Pulley End Bearing Type	Sealed Bearing
Service Factor	1.00
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End

## Part detail

Revision	AG
Type	DC
Mech. spec.	35P565
Base	
Status	PRD/A
Elec. spec.	35WGZ235
Layout	35LYP565
Eff. date	06-23-2023
CD Diagram	CD0194
Poles	00
Leads	
Proprietary	False
Created date	01-01-0001

<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>	35P565Z235G1		
<b>CAT.NO.</b>	CDPX3545	<b>T. CODE</b>	T3C
<b>HP</b>	1	<b>ENCL</b>	XPFC
<b>RPM</b>	1750		
<b>FRAME</b>	56C	<b>TYPE</b>	3536P
<b>ARM V</b>	90	<b>ARM A</b>	9.6
<b>FLD V</b>		<b>FLD A</b>	
<b>INSUL</b>	F	<b>AMB.</b>	40
<b>DUTY</b>	CONT	<b>SUPPLY</b>	K
<b>BRG/DE</b>	6205	<b>BRG/ODE</b>	6203
<b>BRUSHES</b>	2/BP5035C01		
<b>BLANK</b>			

**DC Motor Performance Data**

Record # 1414

Typical performance - not guaranteed values

<b>Winding: 35WGZ235-R011</b>		<b>Type: 3536P</b>		<b>Enclosure: TEFC</b>	
<b>Nameplate Data</b>			<b>General Characteristics</b>		
<b>Rated Output (HP)</b>	1	<b>Armature Resistance @ 25°C</b>	0.245 Ω		
<b>R.P.M.</b>	1750	<b>Voltage Constant</b>	50.01 v/krpm		
<b>Armature Volts</b>	90	<b>Armature Inductance</b>	3.789 mH		
<b>Armature Amps</b>	9.6	<b>Armature Inertia</b>	30.3419 LI <sup>2</sup>		
<b>Field Volts</b>					
<b>Field Amps</b>					
<b>Rating - Duty</b>	40C AMB-CONT				
<b>Power Supply Code</b>	K				

**Load Characteristics at 90 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>	1	3.3	4.5	8	10.1	12.3	14.8
<b>R.P.M.</b>	1930	1926	1919	1865	1850	1756	1745
<b>Torque ( LB-FT )</b>	0	0.75	1.15	2.25	3	3.75	4.5

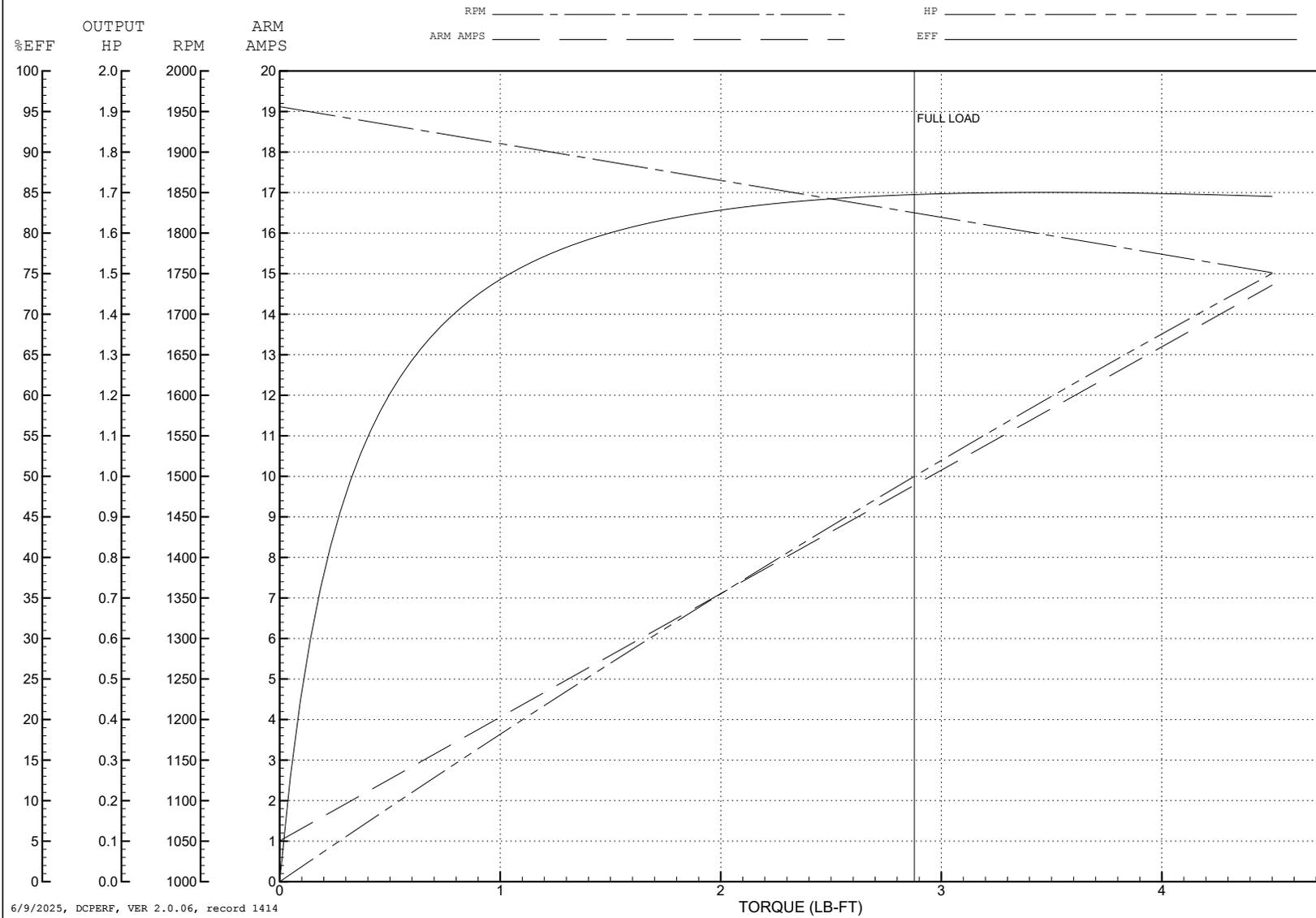
ABB Motors and Mechanical Inc.

WINDING # 35WGZ235

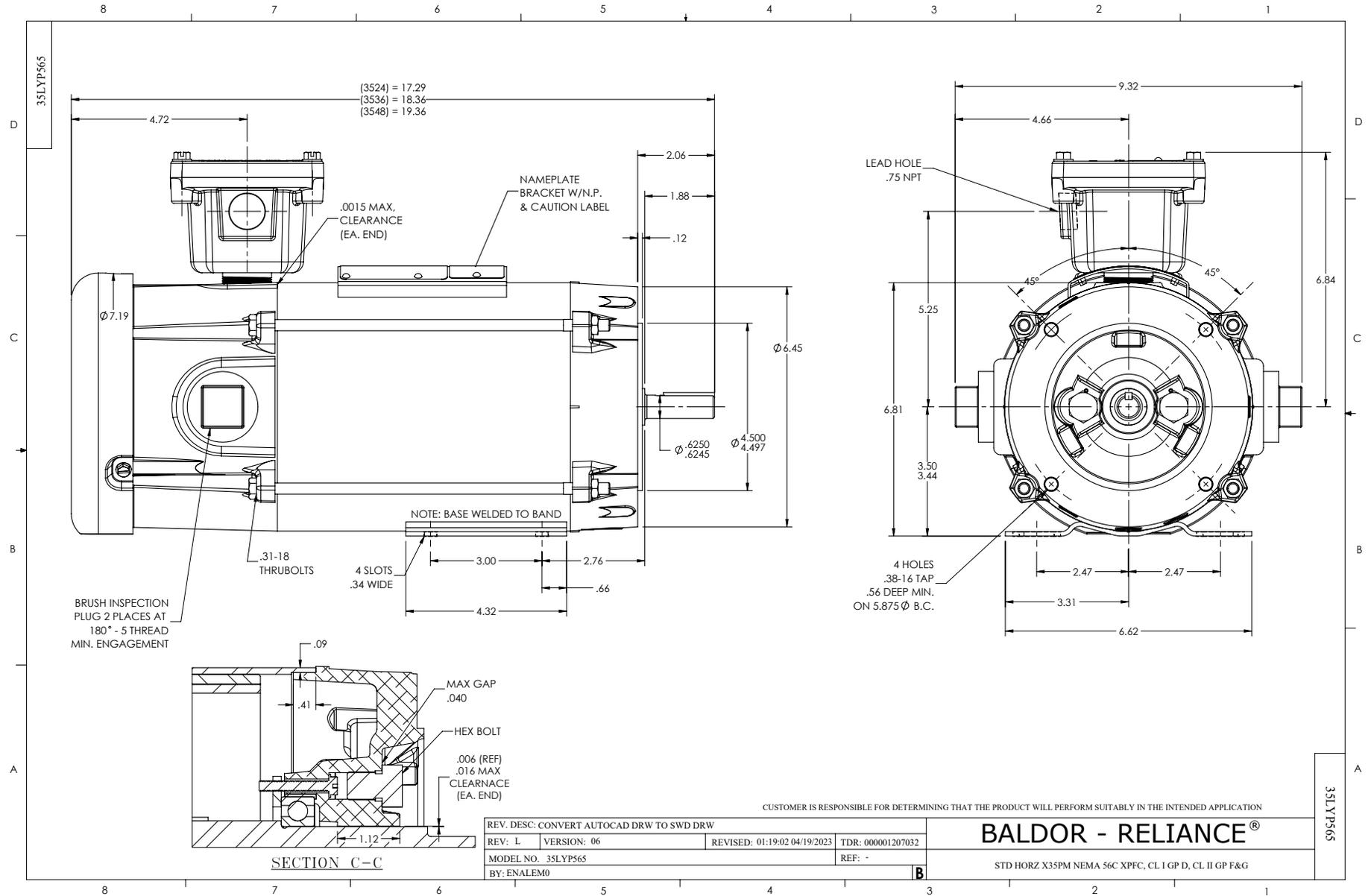
Typical performance - not guaranteed values.

1 HP DC 1750 RPM 90 V 3536P

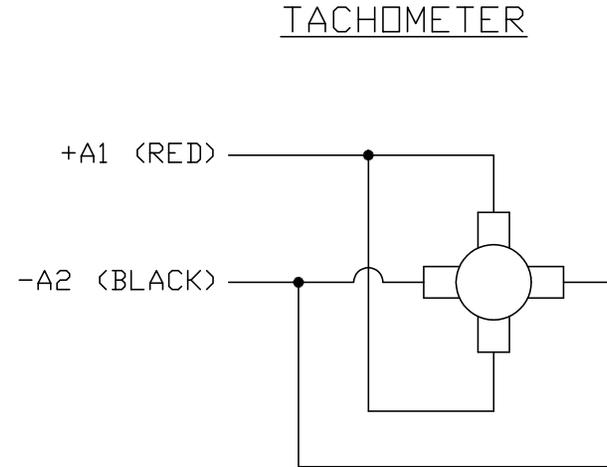
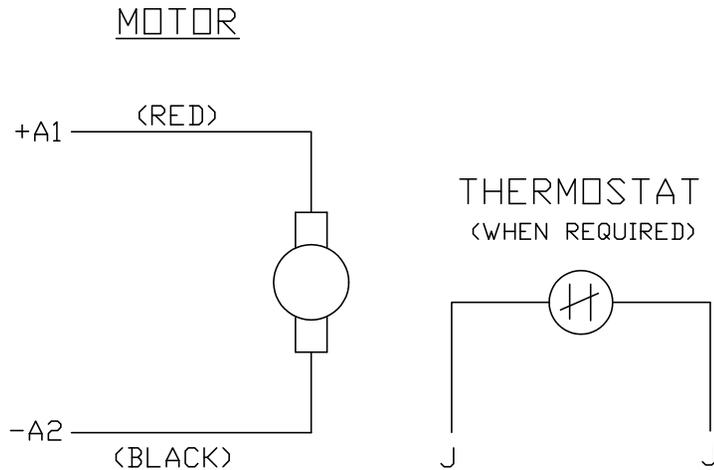
ENCL: TEFC DUTY: CONT CL: F



6/9/2025, DCPERF, VER 2.0.06, record 1414



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