

**BALDOR • RELIANCE**

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# Customer information packet

## CDP3605

5HP, 1750RPM, DC, 1810ATC, 3681P, TEFC, F1

Class - None

Division -

## Specifications

Armature Voltage	180 V
Base Speed	1750 rpm
Enclosure	TEFC
Frame	1810ATC
Frame Material	Steel
Haz Area Class and Group	None
Output Power	5.000 HP
Agency Approvals	CE CSA UR
Ambient Temperature	40 °C
Armature Current	21.6 a
Armature Inertia	192.361 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
Heater Indicator	No Heater
Lifting Lugs	Standard Lifting Lugs
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	2 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	27.83 IN
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Service Factor	1.00
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding

## Part detail

Revision	AG
Type	DC
Mech. spec.	36P179
Base	
Status	PRD/A
Elec. spec.	36WGZ543
Layout	36LYP179
Eff. date	11-12-2024
CD Diagram	CD0194
Poles	00
Leads	
Proprietary	False
Created date	01-01-0001

**Shaft Rotation**

Reversible

**Shaft Slinger Indicator**

No Slinger

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**Nameplate**

<b>NP0891L</b>					
<b>CAT.NO.</b>	CDP3605				
<b>SPEC.</b>	36P179Z543				
<b>HP</b>	5/3.7 KW	<b>ENCL</b>	TEFC		
<b>RPM</b>	1750 1/MIN IC411 73KG				
<b>FRAME</b>	1810ATC	<b>TYPE</b>	3688P		
<b>ARM V</b>	180	<b>ARM A</b>	21.6		
<b>FLD V</b>		<b>FLD A</b>			
<b>INSUL</b>	H	<b>AMB.</b>	40		
<b>DUTY</b>	CONT	<b>SUPPLY</b>	K		
<b>BRG/DE</b>	6206	<b>BRG/ODE</b>	6206		
<b>BRUSHES</b>	2/BP5027A01				
		<b>BLANK</b>	IP44		
<b>SER.</b>					
<b>BLANK</b>					
<b>APRV-CE</b>	Y	<b>APRV-CSA</b>	Y	<b>APRV-UL</b>	Y

**Accessories**

<b>Part number</b>	<b>Description</b>	<b>Multiplier</b>
TK3600PM	TACHO MOUNTING KIT FOR TK3600PM	A8

**DC Motor Performance Data**

Record # 1441

Typical performance - not guaranteed values

<b>Winding: 36WGZ543-R001</b>		<b>Type: 3688P</b>	<b>Enclosure: TEFC</b>
<b>Nameplate Data</b>		<b>General Characteristics</b>	
<b>Rated Output (HP)</b>	5	<b>Armature Resistance @ 25°C</b>	0.1532 Ω
<b>R.P.M.</b>	1750		
<b>Armature Volts</b>	180		
<b>Armature Amps</b>	21.6		
<b>Field Volts</b>		<b>Armature Inductance</b>	3.7192 mH
<b>Field Amps</b>			
<b>Rating - Duty</b>	40C AMB-CONT		
<b>Power Supply Code</b>	K		

**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>	0.88	6.23	11.5	17	22.2	27.7	33.21
<b>R.P.M.</b>	1875	1860	1840	1830	1812	1800	1785
<b>Torque ( LB-FT )</b>	0	3.75	7.5	11.25	15	18.75	22.5

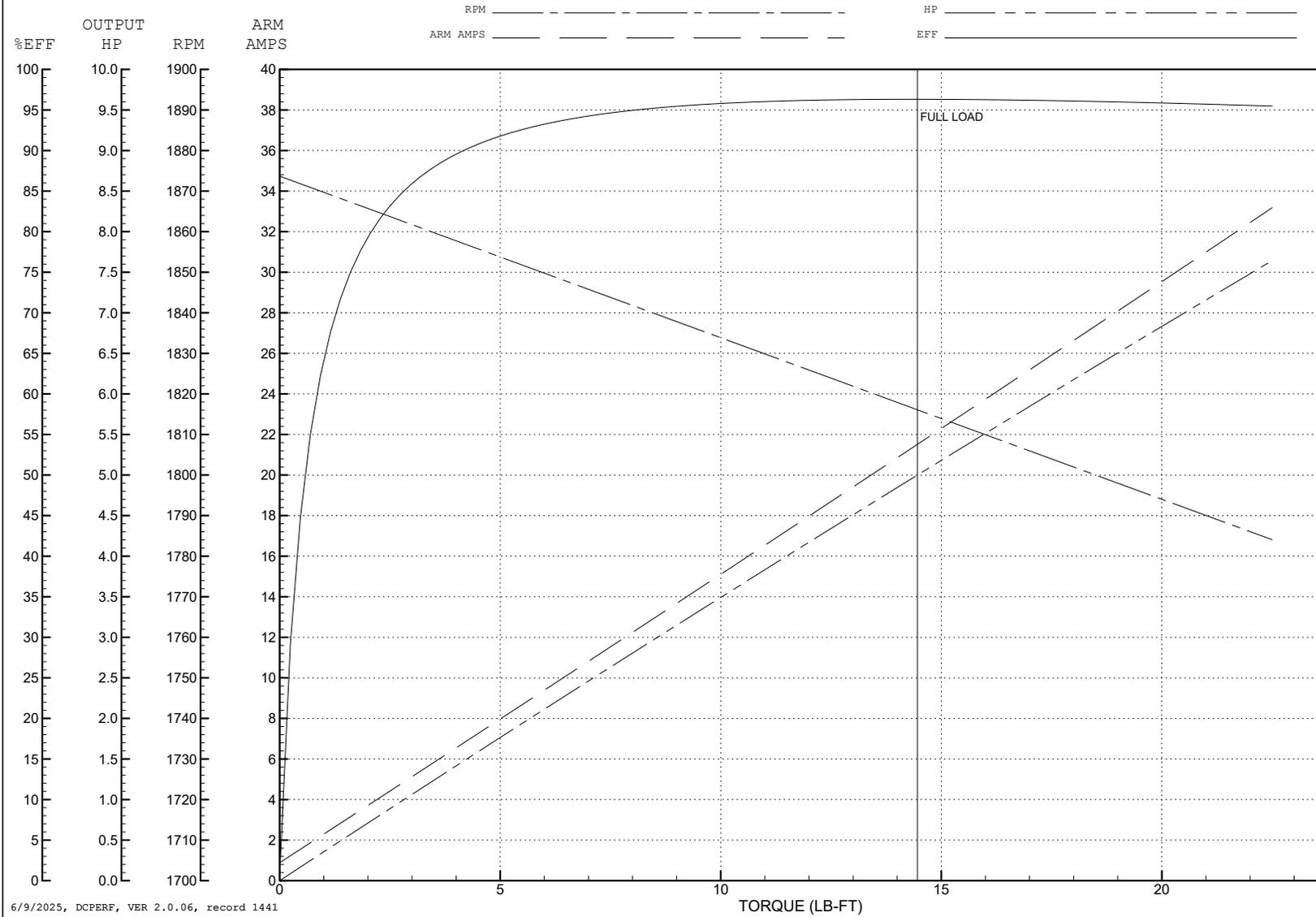
ABB Motors and Mechanical Inc.

WINDING # 36WGZ543

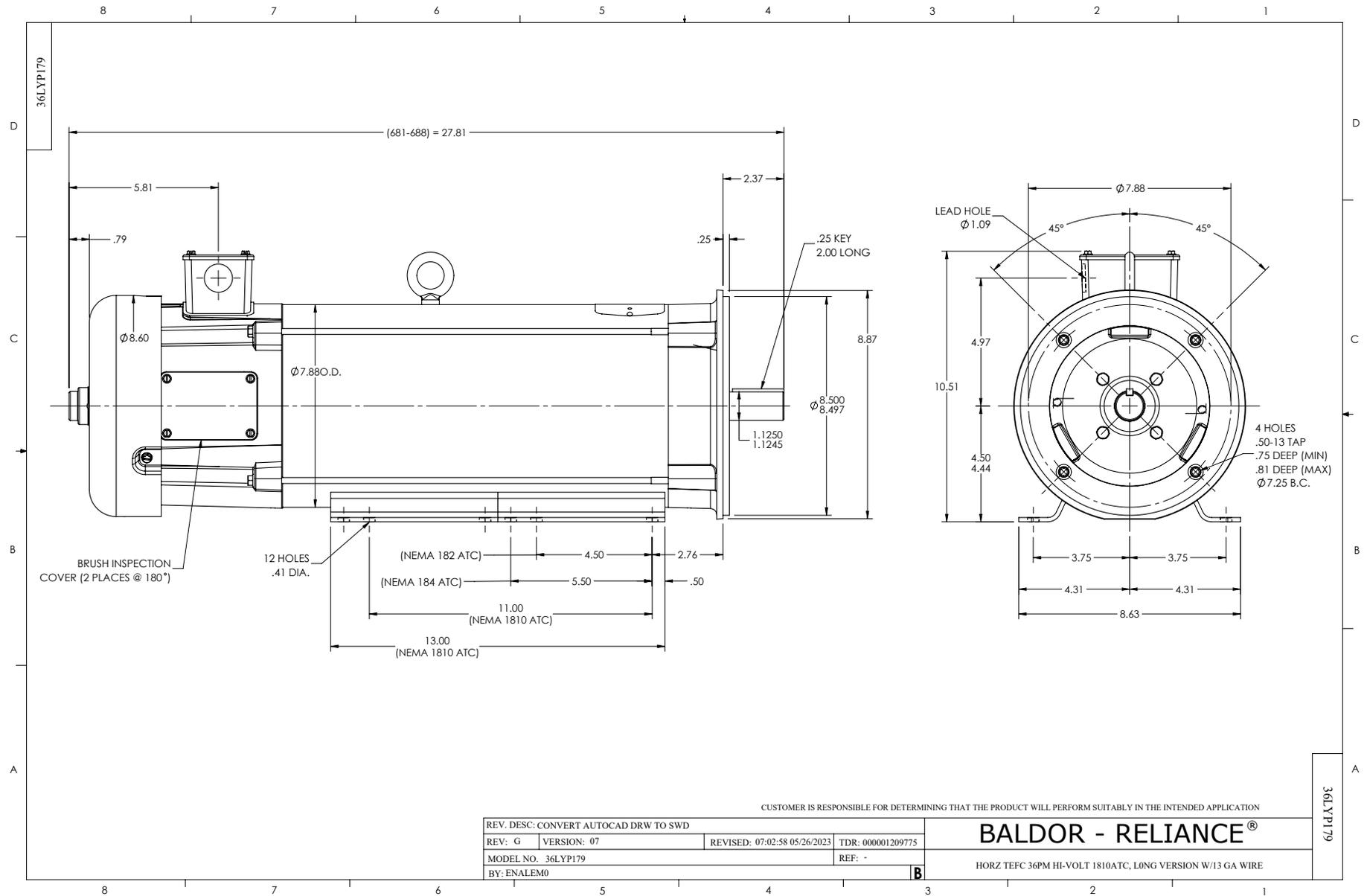
5 HP DC 1750 RPM 180 V 3688P

Typical performance - not guaranteed values.

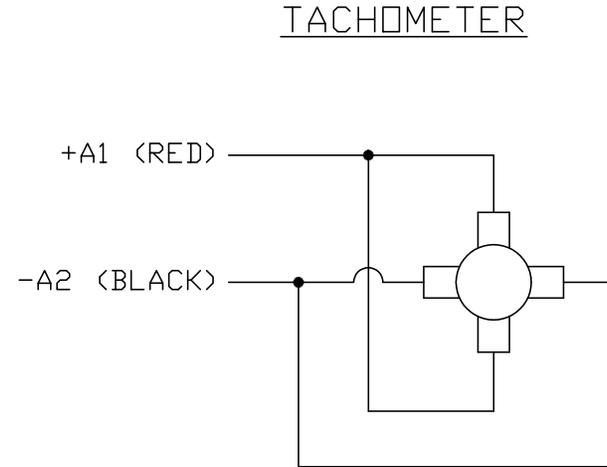
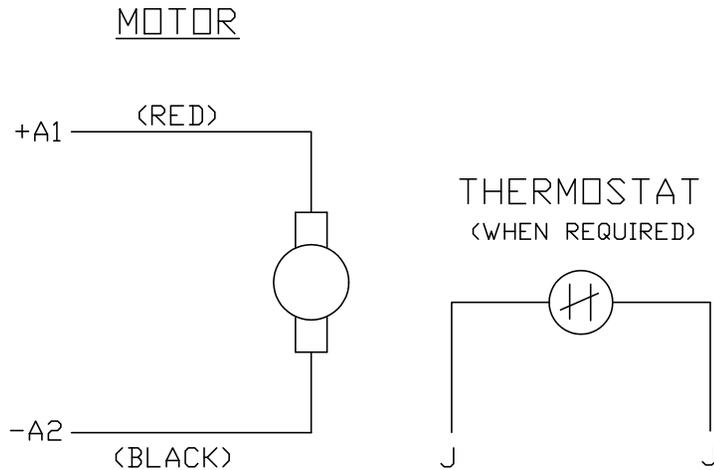
ENCL: TEFC DUTY: CONT CL: H



6/9/2025, DCPERF, VER 2.0.06, record 1441



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