

**BALDOR • RELIANCE**

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# Customer information packet

## CDX7150

1.5HP, 1750RPM, DC, 184C, X3636D, XPFC, F1

Class - CLI GP D; CLII GP F,G

Division -

## Specifications

Armature Voltage	180 V
Base Speed	1750 rpm
Enclosure	XPFC
Field Voltage	100 V
	200 V
Frame	184C
Frame Material	Steel
Haz Area Class and Group	CLI GP D; CLII GP F,G
Output Power	1.500 HP
Agency Approvals	CSA
	UL
	UR
Ambient Temperature	40 °C
Armature Current	7.5 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
Field Winding Type	SHUNT
Haz Area Temp Code	T3B
Heater Indicator	No Heater
Lifting Lugs	No Lifting Lugs
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	2 @ 12 AWG
	4 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	20.30 IN
Product Family	General Purpose

## Part detail

Revision	AZ
Type	DC
Mech. spec.	36-4687
Base	
Status	PRD/A
Elec. spec.	36WGZ106
Layout	36LY4687
Eff. date	12-26-2024
CD Diagram	CD0860C01
Poles	00
Leads	
Proprietary	False
Created date	01-01-0001

<b>Pulley End Bearing Type</b>	Sealed Bearing
<b>Service Factor</b>	1.00
<b>Shaft Diameter</b>	0.875 IN
<b>Shaft Extension Location</b>	Pulley End
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	No Slinger

**Nameplate**

<b>NP0727XPSL</b>			
<b>NO.</b>			
<b>SER.</b>			
<b>SPEC.</b>	36-4687Z106		
<b>CAT.NO.</b>	CDX7150	<b>T. CODE</b>	T3B
<b>HP</b>	1.5	<b>ENCL</b>	XPFC
<b>RPM</b>	1750		
<b>FRAME</b>	184C	<b>TYPE</b>	3636D
<b>ARM V</b>	180	<b>ARM A</b>	7.5
<b>FLD V</b>	200/100	<b>FLD A</b>	.25/.5
<b>INSUL</b>	F	<b>AMB.</b>	40
<b>DUTY</b>	CONT	<b>SUPPLY</b>	K
<b>BRG/DE</b>	BG6206	<b>BRG/ODE</b>	BG6205
<b>BRUSHES</b>	2/BP5125A01		
<b>BLANK</b>			

**DC Motor Performance Data**

Record # 2270

Typical performance - not guaranteed values

Winding: 36WGZ106-R009		Type: 3636D	Enclosure: TEFC
<b>Nameplate Data</b>		<b>General Characteristics</b>	
Rated Output (HP)	1.5	Armature Resistance @ 25°C	0.8797 Ω
R.P.M.	1750	Commutating Winding Resistance @ 25°C	0.5855 Ω
Armature Volts	180		
Armature Amps	7.5	Shunt Winding Resistance @ 25°C	311.7 Ω
Field Volts	200 / 100	Armature Inductance	13.549 mH
Field Amps	0.25 / 0.5	Armature Inertia	30.342 LI <sup>2</sup>
Rating - Duty	40C AMB-CONT		
Power Supply Code	K		

**Load Characteristics at 180 Armature Volts, 200 Field Volts, 0.28 Field Amps**

Load Point	1	2	3	4	5	6	7
Armature Amps	0.54	2	3.55	5.23	6.61	8.27	10.48
R.P.M.	1782	1788	1777	1769	1779	1778	1779
Torque ( LB-FT )	0	1.13	2.26	3.39	4.5	5.63	6.75

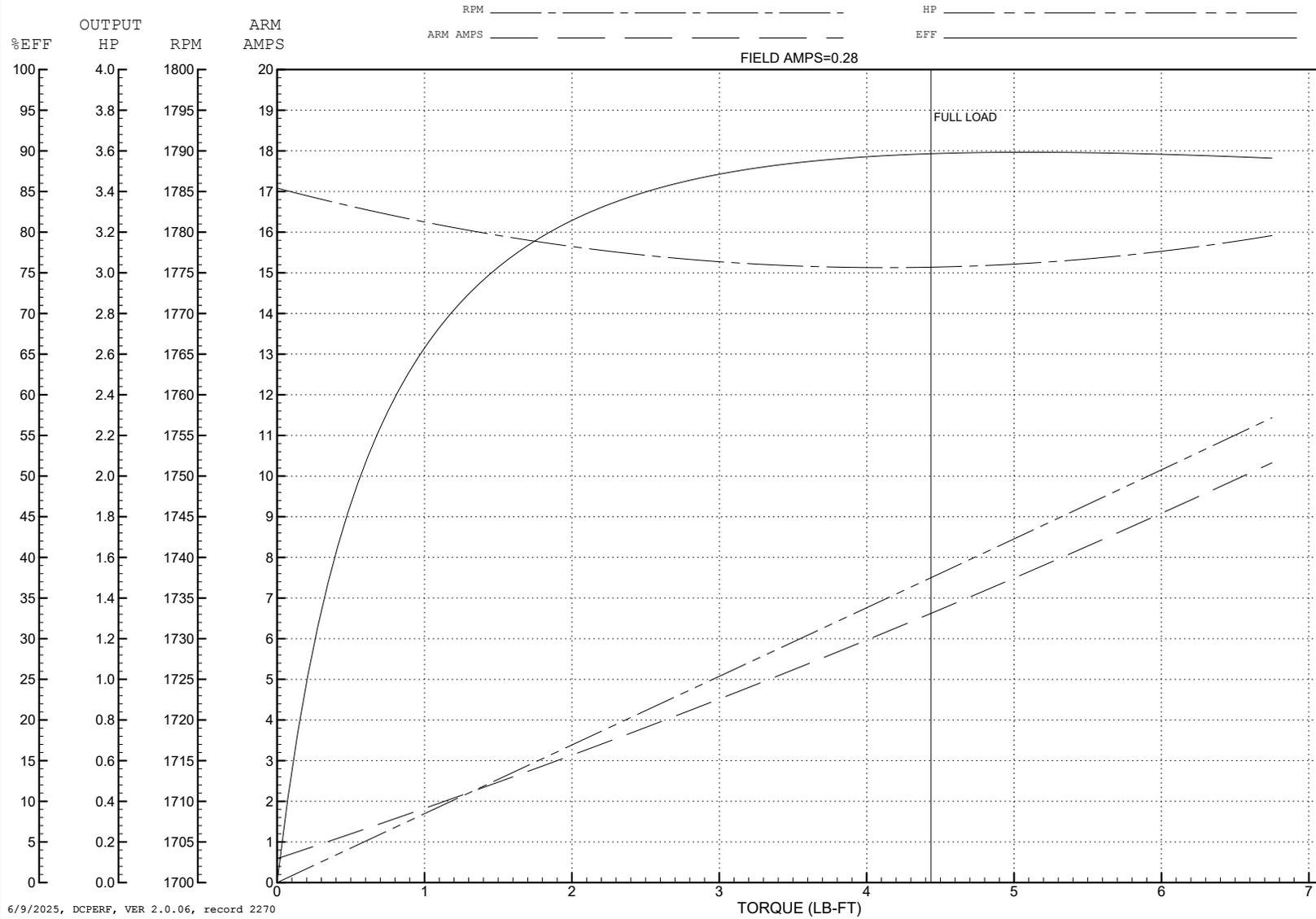
ABB Motors and Mechanical Inc.

WINDING # 36WGZ106

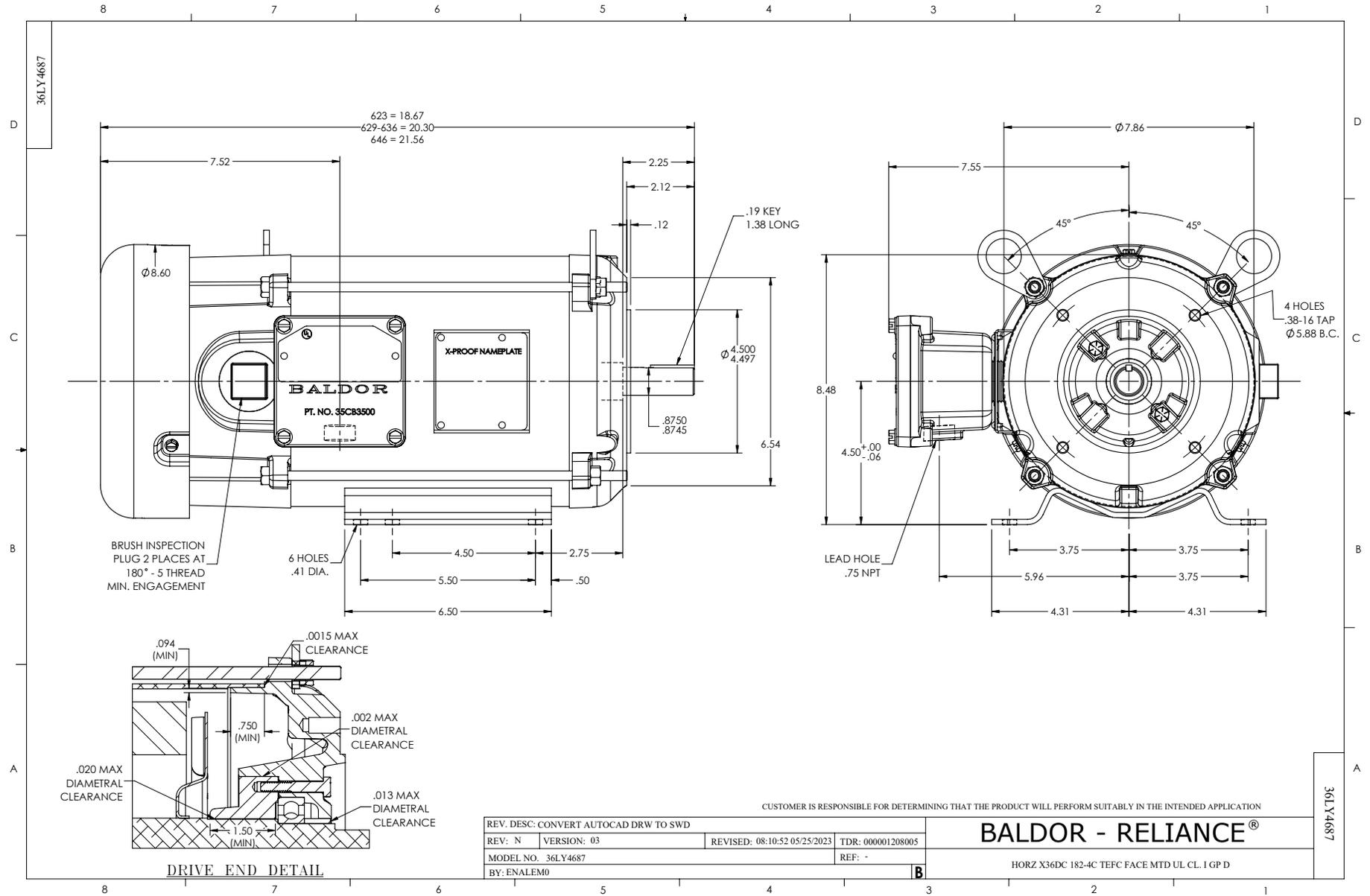
Typical performance - not guaranteed values.

1.5 HP DC 1750 RPM 180 V ARM 200/100 V FLD 3636D

ENCL: TEFC DUTY: CONT CL: F

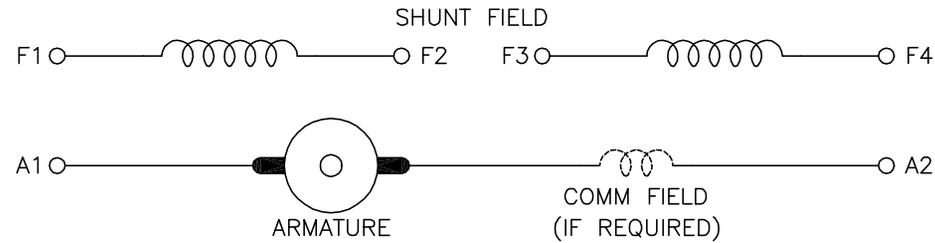


6/9/2025, DCPERF, VER 2.0.06, record 2270



CD0860C01

# SHUNT WOUND



CONNECTION	DIRECTION OF ROTATION			
	CWDE		CCWDE	
	POS TERM (+)	NEG TERM (-)	POS TERM (+)	NEG TERM (-)
HIGH VOLTAGE	A1 F1 CONNECT F2 & F3	A2 F4	A2 F1 CONNECT F2 & F3	A1 F4
LOW VOLTAGE	A1 F1 & F3	A2 F2 & F4	A2 F1 & F3	A1 F2 & F4

NOTES:

1. LIMIT STARTING INRUSH CURRENT TO NOT MORE THAN 3 TIMES RATED AMPERES BY ENERGIZING THE FULL SHUNT FIELD BEFORE BRINGING THE ARMATURE VOLTAGE UP SLOWLY OR IN STEPS.
2. OPTIONAL FIELD REOSTAT MAY BE CONNECTED IN SERIES WITH THE SHUNT FIELD.
3. OPTIONAL THERMOSTAT LEADS ARE MARKED J,J.

REV. DESC: NEW, REPLACE CD0860			
REV. LTR: -	BY: JLP	REVISED: 15:35:22 11/03/2004	TDR: 347796
100098000		FILE: AAA00121477	REF: CD0860C01
		MTL: -	

**BALDOR ELECTRIC Co.**

DC CONNECTION DIAGRAM, SHUNT FIELD, 6 LEAD, DUAL VOLTAGE

CD0860C01