

**BALDOR • RELIANCE**

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# Customer information packet

## CD7503

3HP, 1750RPM, DC, 215C, 3668D, TEFC, F1, N

Class - None

Division -

## Specifications

Armature Voltage	180 V
Base Speed	1750 rpm
Enclosure	TEFC
Field Voltage	100 V
	200 V
Frame	215C
Frame Material	Steel
Haz Area Class and Group	None
Output Power	3.000 HP
Agency Approvals	CSA
	UR
Ambient Temperature	40 °C
Armature Current	14.7 a
Armature Inertia	57.312 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
Heater Indicator	No Heater
Lifting Lugs	Standard Lifting Lugs
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	4 @ 18 AWG
	2 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	22.54 IN
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
RoHS Status	ROHS COMPLIANT

## Part detail

Revision	T
Type	DC
Mech. spec.	36-5580
Base	
Status	PRD/A
Elec. spec.	36WGZ136
Layout	36LY5580
Eff. date	11-12-2024
CD Diagram	CD0860C01
Poles	00
Leads	
Proprietary	False
Created date	11-18-2008

<b>Service Factor</b>	1.00
<b>Shaft Diameter</b>	1.125 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>NP0111L</b>			
<b>CAT.NO.</b>	CD7503		
<b>SPEC.</b>	36-5580Z136G1		
<b>HP</b>	3	<b>ENCL</b>	TEFC
<b>RPM</b>	1750		
<b>FRAME</b>	215C	<b>TYPE</b>	3668D
<b>ARM V</b>	180	<b>ARM A</b>	14.7
<b>FLD V</b>	200/100	<b>FLD A</b>	.6/1.2
<b>INSUL</b>	F	<b>AMB.</b>	40
<b>DUTY</b>	CONT	<b>SUPPLY</b>	K
<b>BRG/DE</b>	6207	<b>BRG/ODE</b>	6205
<b>BRUSHES</b>	2/BP5125A01		
	BLANK		
<b>SER.</b>			
<b>BLANK</b>			
<b>APRV-CSA</b>	APRV-UL		

**Accessories**

<b>Part number</b>	<b>Description</b>	<b>Multiplier</b>
TK3600	TEFC TACH MTG.CONVERSION KIT	

**DC Motor Performance Data**

Record # 1944

Typical performance - not guaranteed values

Winding: 36WGZ136-R004		Type: 3668D	Enclosure: TEFC
<b>Nameplate Data</b>		<b>General Characteristics</b>	
Rated Output (HP)	3	Armature Resistance @ 25°C	0.411 Ω
R.P.M.	1750	Commutating Winding Resistance @ 25°C	0.279 Ω
Armature Volts	180	Shunt Winding Resistance @ 25°C	351 Ω
Armature Amps	14.7	Armature Inductance	7.003 mH
Field Volts	200 / 100		
Field Amps	0.6 / 1.2		
Rating - Duty	40C AMB-CONT		
Power Supply Code	K		

**Load Characteristics at 180 Armature Volts, 200 Field Volts, 0.55 Field Amps**

Load Point	1	2	3	4	5	6	7
Armature Amps	1.1	7.2	10.2	13.4	16.4	20.4	27.1
R.P.M.	1697	1626	1611	1590	1572	1555	1547
Torque ( LB-FT )	0	4.5	6.75	9	11.25	13.5	18

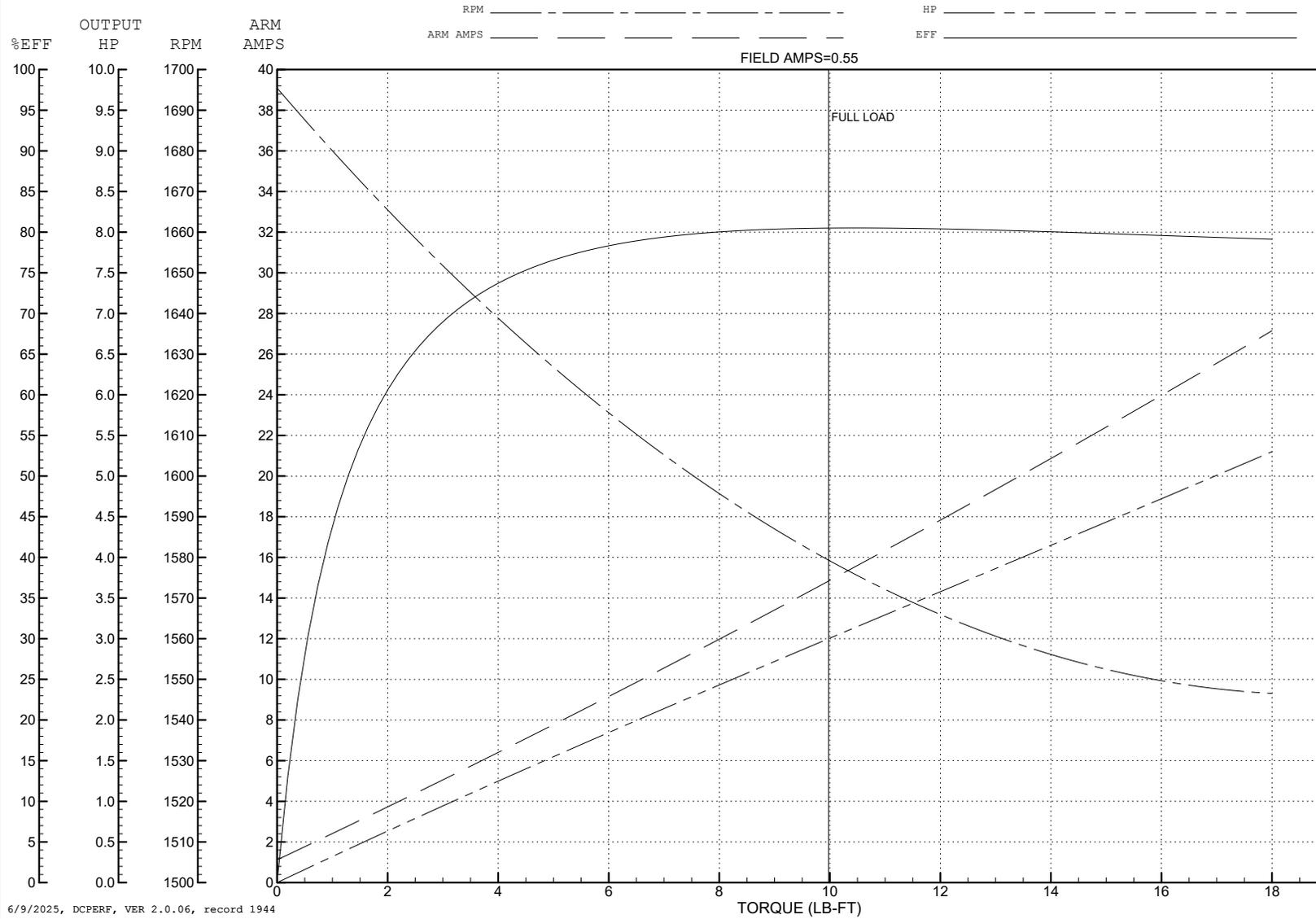
ABB Motors and Mechanical Inc.

WINDING # 36WGZ136

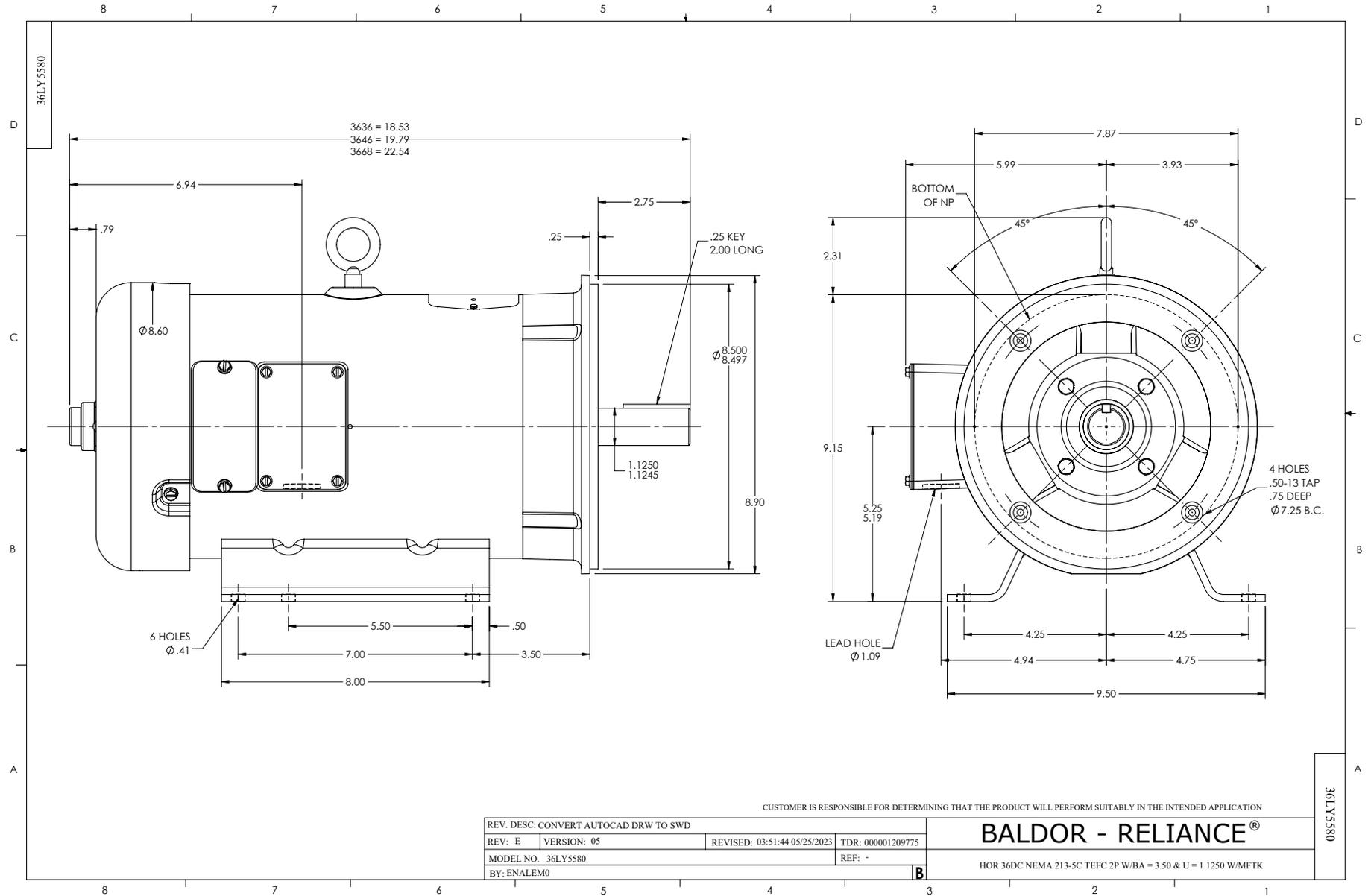
Typical performance - not guaranteed values.

3 HP DC 1750 RPM 180 V ARM 200/100 V FLD 3668D

ENCL: TEFC DUTY: CONT CL: F

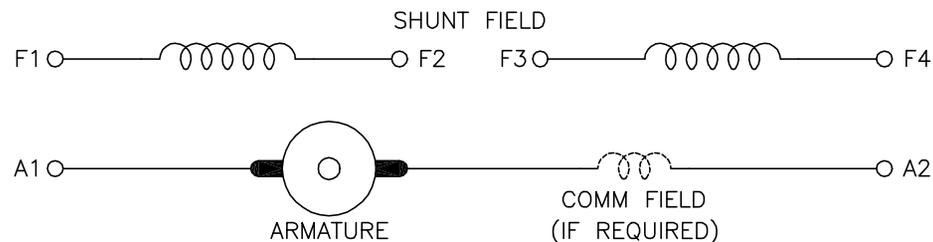


6/9/2025, DCPERF, VER 2.0.06, record 1944



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