

# **BALDOR**® • ***RELIANCE***

## **Product Information Packet**

# **CD6215**

**1.5HP,1750RPM,DC,184C,3636D,TEFC,F1**

Part Detail							
Revision:	U	Status:	PRD/A	Change #:		Proprietary:	No
Type:	DC	Prod. Type:	3636D	Elec. Spec:	36WGZ106	CD Diagram:	CD0860C01
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	36-5257	Layout:	36LY5257
Frame:	182C	Mounting:	F1	Poles:	00	Created Date:	
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	01-28-2014
Field Type:	Shunt	Literature:		Elec. Diagram:		Replaced By:	

Specs			
Enclosure:	TEFC		
Frame:	184C		
Frame Material:	Steel		
XP Class and Group:	None		
Agency Approvals:	CSA		
	UR		
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		
Insulation Class:	F		
Lifting Lugs:	Standard Lifting Lugs		
Motor Lead Quantity/Wire Size:	2 @ 12 AWG		

	4 @ 18 AWG		
<b>Motor Lead Exit:</b>	Ko Box		
<b>Motor Lead Termination:</b>	Flying Leads		
<b>Mounting Arrangement:</b>	F1		
<b>Product Family:</b>	General Purpose		
<b>Pulley End Bearing Type:</b>	Sealed Bearing		
<b>RoHS Status:</b>	ROHS COMPLIANT		
<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		
<b>Motor Standards:</b>	NEMA		

Nameplate NP0111L			
CAT.NO.	CD6215		
SPEC.	36-5257Z106		
HP	1.5	ENCL	TEFC
RPM	1750		
FRAME	184C	TYPE	3636D
ARM V	180	ARM A	7.5
FLD V	200/100	FLD A	.25/.5
INSUL	F	AMB.	40
DUTY	CONT	SUPPLY	----
BRG/DE	6206	BRG/ODE	6205
BRUSHES	2/BP5125A01		
		BLANK	
SER.			
BLANK			
APRV-CSA	<input type="checkbox"/>	APRV-UL	<input type="checkbox"/>

**DC Motor Performance Data**

Record # 480 - Typical performance - not guaranteed values

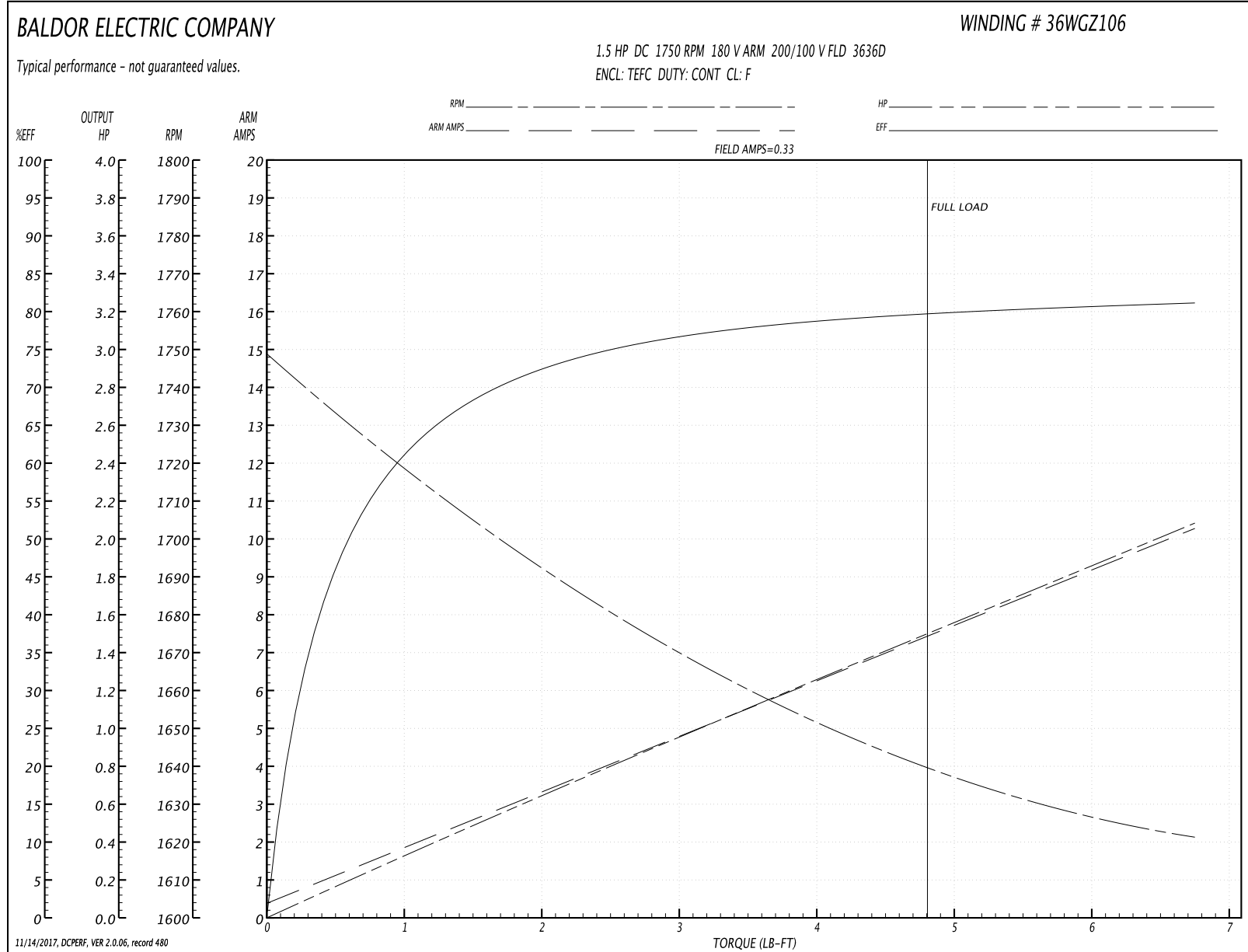
<b>Winding:</b> 36WGZ106-R001	<b>Type:</b> 3636D	<b>Enclosure:</b> TEFC
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Nameplate Data		General Characteristics	
Rated Output (HP)	1.5	Armature Resistance @ 25°C	0.885 Ω
R.P.M.	1750	Commutating Winding Resistance @ 25°C	0.698 Ω
Armature Volts	180		
Armature Amps	7.5	Shunt Winding Resistance @ 25°C	623 Ω
Field Volts	200 / 100		
Field Amps	0.25 / 0.5		
Rating - Duty	40C AMB-CONT		
Power Supply Code	K		

Load Characteristics at 180 Armature Volts, 200 Field Volts, 0.33 Field Amps

Load Point	1	2	3	4	5	6	7
Armature Amps	0.4	2	3.7	5.4	6.95	8.6	10.3
R.P.M.	1747	1718	1687	1660	1645	1629	1622
Torque ( LB-FT )	0	1.125	2.25	3.375	4.5	5.625	6.75

Performance Graph at 180.0 Arm V, 1.5HP Typical performance - Not guaranteed values



**DC Motor Performance Data**

Record # 2092 - Typical performance - not guaranteed values

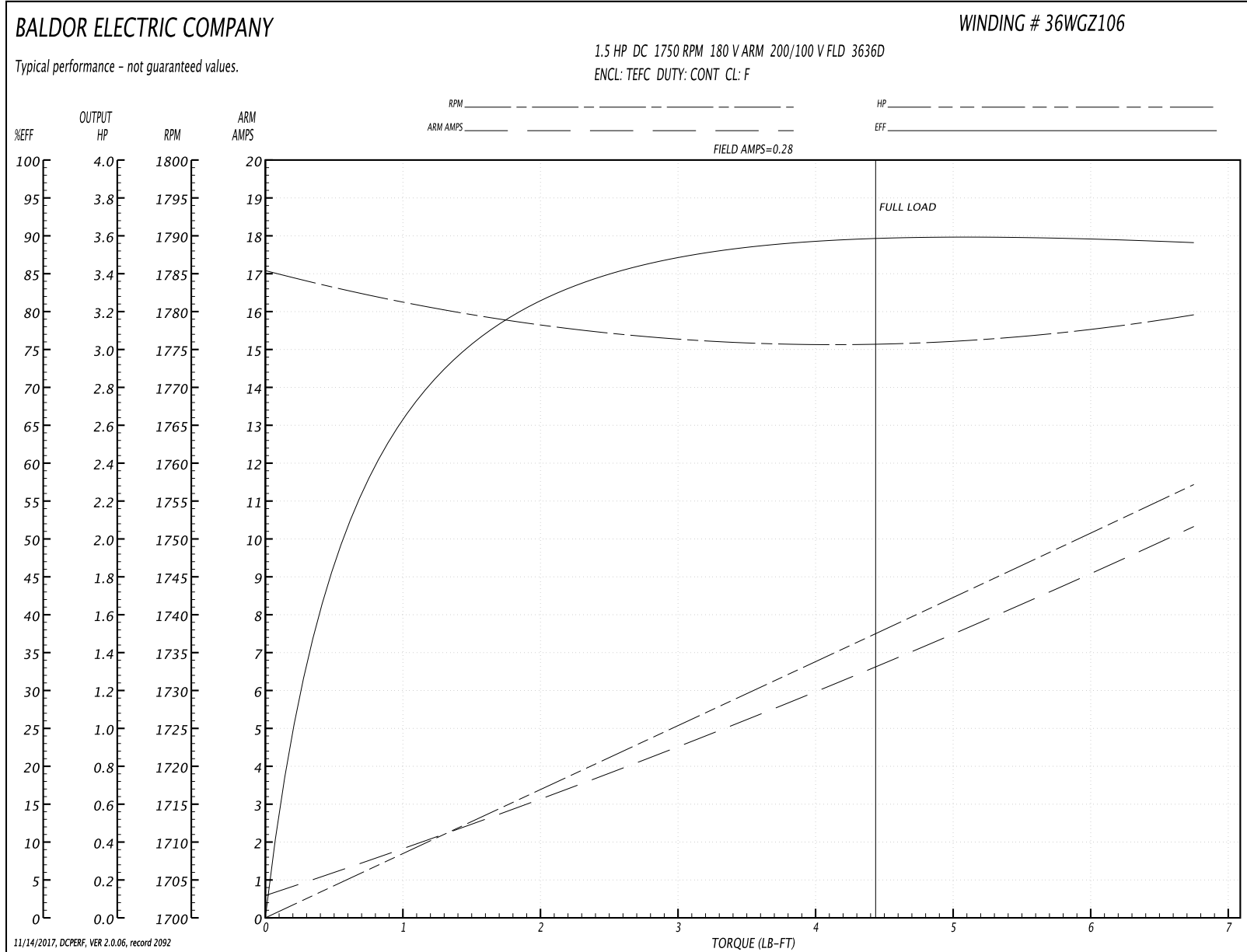
<b>Winding:</b> 36WGZ106-R001	<b>Type:</b> 3636D	<b>Enclosure:</b> TEFC
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Nameplate Data		General Characteristics	
Rated Output (HP)	1.5	Armature Resistance @ 25°C	0.8797 Ω
R.P.M.	1750	Commutating Winding Resistance @ 25°C	0.5855 Ω
Armature Volts	180		
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		

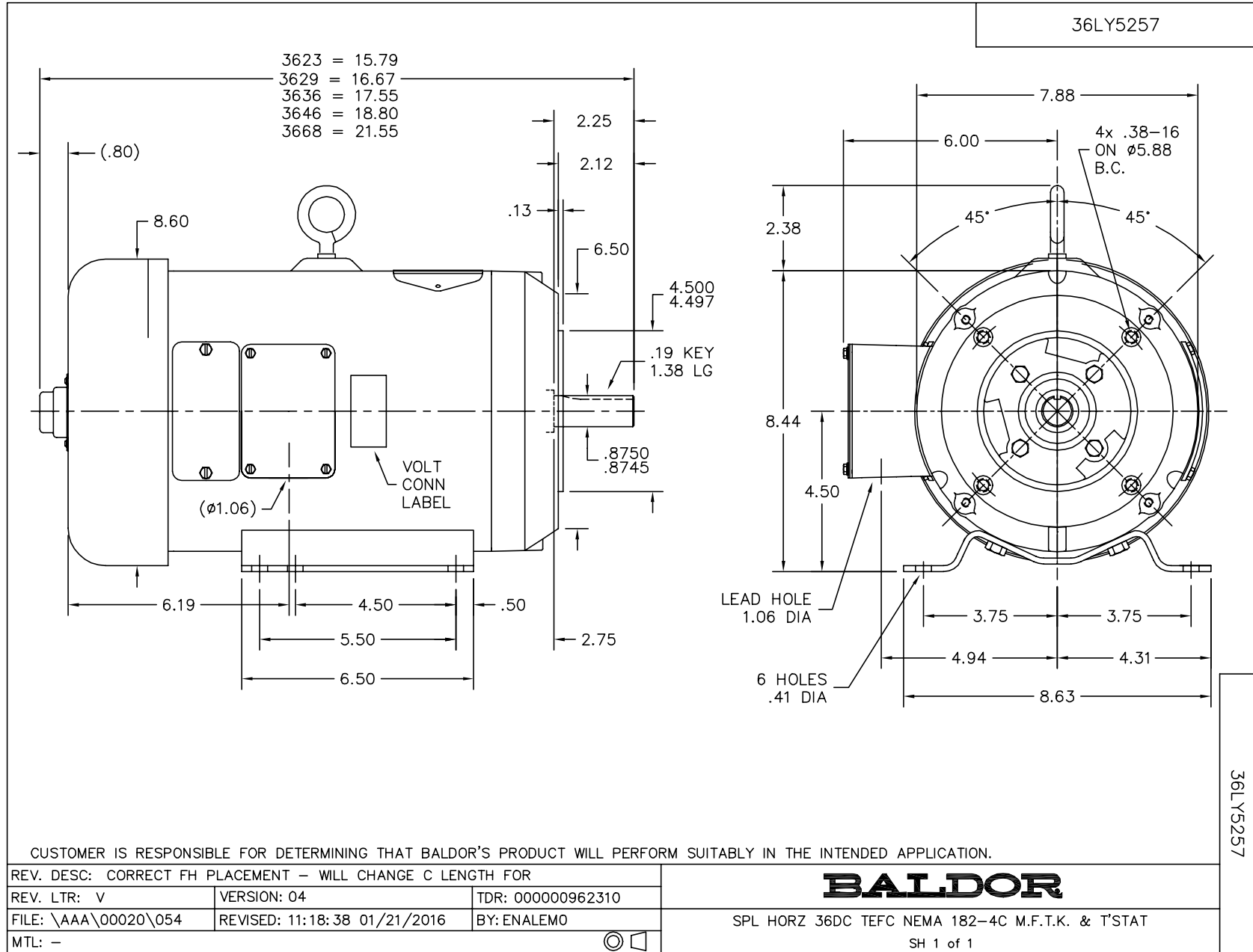
Load Characteristics at 180 Armature Volts, 200 Field Volts, 0.28 Field Amps

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

Performance Graph at 180.0 Arm V, 1.5HP Typical performance - Not guaranteed values

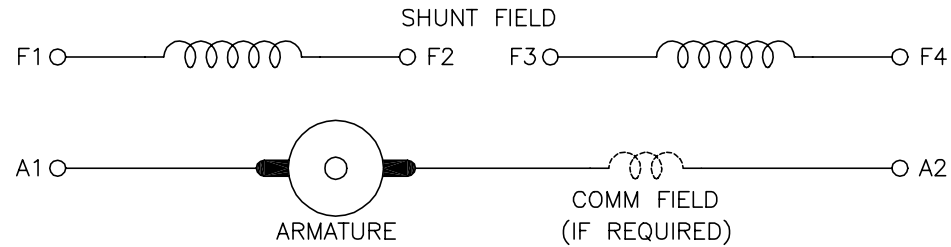






CD0860C01

# 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