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Product Information Packet

CD7502

2HP,1750RPM,DC,213C,3646D,TEFC,F1,N

Part Detail

Revision:	G	**Status:**	PRD/A	**Change #:**		**Proprietary:**	No
Type:	DC	**Prod. Type:**	3646D	**Elec. Spec:**	36WGZ105	**CD Diagram:**	CD0860C01
Enclosure:	TEFC	**Mfg Plant:**		**Mech. Spec:**	36-5580	**Layout:**	36LY5580
Frame:	213C	**Mounting:**	F1	**Poles:**	00	**Created Date:**	11-20-2008
Base:	RG	**Rotation:**	R	**Insulation:**	F	**Eff. Date:**	02-21-2015
Field Type:	Shunt	**Literature:**		**Elec. Diagram:**		**Replaced By:**	

Specs

Enclosure:	TEFC		
Frame:	213C		
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		
Motor Lead Exit:	Ko Box		
Motor Lead Termination:	Flying Leads		
Mounting Arrangement:	F1		
Product Family:	General Purpose		
Pulley End Bearing Type:	Sealed Bearing		
Shaft Extension Location:	Pulley End		
Shaft Ground Indicator:	No Shaft Grounding		
Shaft Rotation:	Reversible		
Shaft Slinger Indicator:	No Slinger		
Motor Standards:	NEMA		

Nameplate NP0111L

CAT.NO.	CD7502				
SPEC.	36-5580Z105				
HP	2	**ENCL**	TEFC		
RPM	1750				
FRAME	213C	**TYPE**	3646D		
ARM V	180	**ARM A**	9.5		
FLD V	200/100	**FLD A**	.4/.8		
INSUL	F	**AMB.**	40		
DUTY	CONT	**SUPPLY**	K		
BRG/DE	6207	**BRG/ODE**	6205		
BRUSHES	2/BP5125A01				
		BLANK			
SER.					
BLANK					
APRV-CSA		**APRV-UL**			

DC Motor Performance Data

Record # 306 - Typical performance - not guaranteed values

Winding: 36WGZ105-R001	**Type:** 3646D	**Enclosure:** TEFC

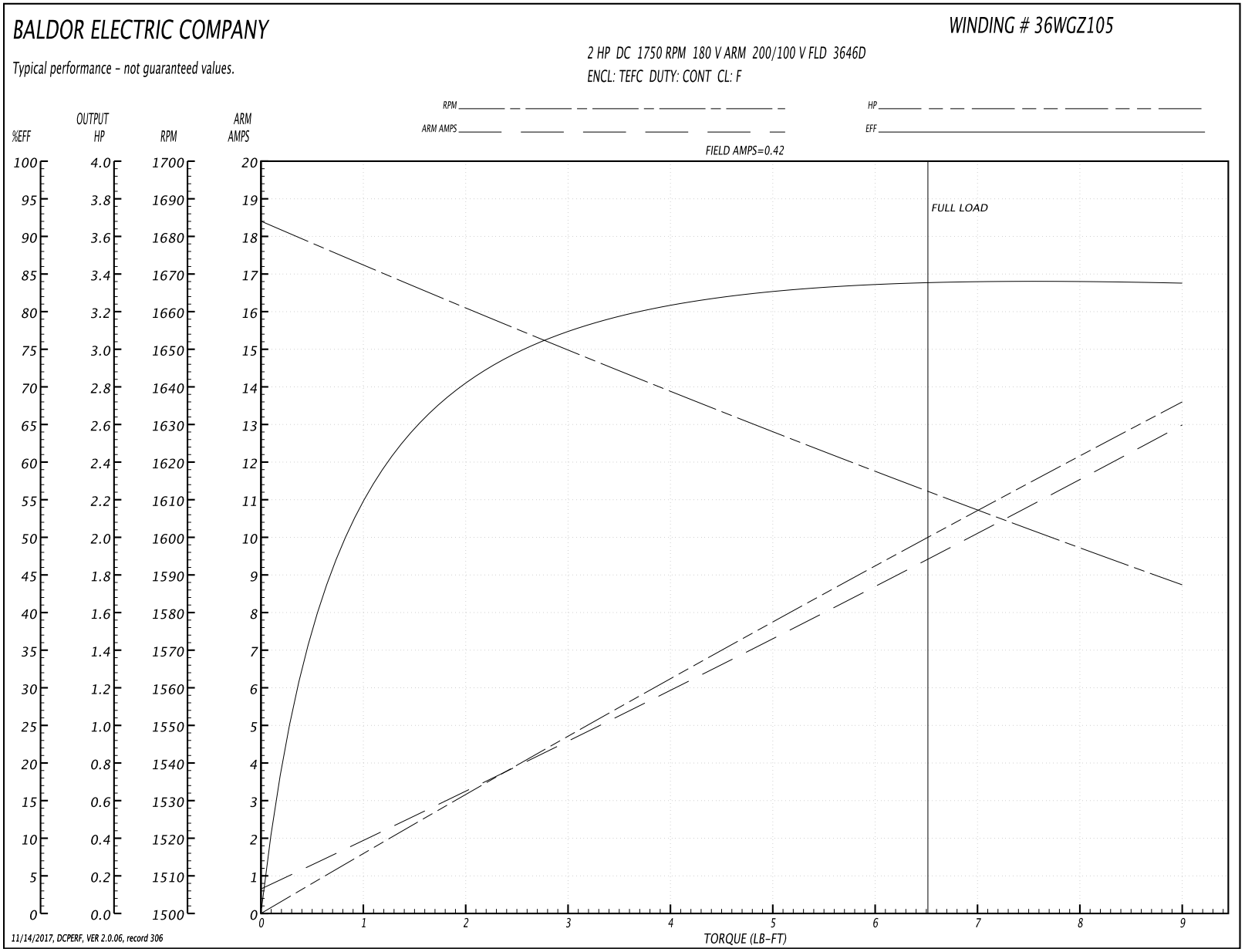
Nameplate Data	
Rated Output (HP)	2
R.P.M.	1750
Armature Volts	180
Armature Amps	9.5
Field Volts	200 / 100
Field Amps	0.4 / 0.8
Rating - Duty	40C AMB-CONT
Power Supply Code	K

General Characteristics	
Armature Resistance @ 25ºC	0.631 Ω
Commutating Winding Resistance @ 25ºC	0.451 Ω
Shunt Winding Resistance @ 25ºC	428 Ω
Armature Inertia	38.7702 LI²

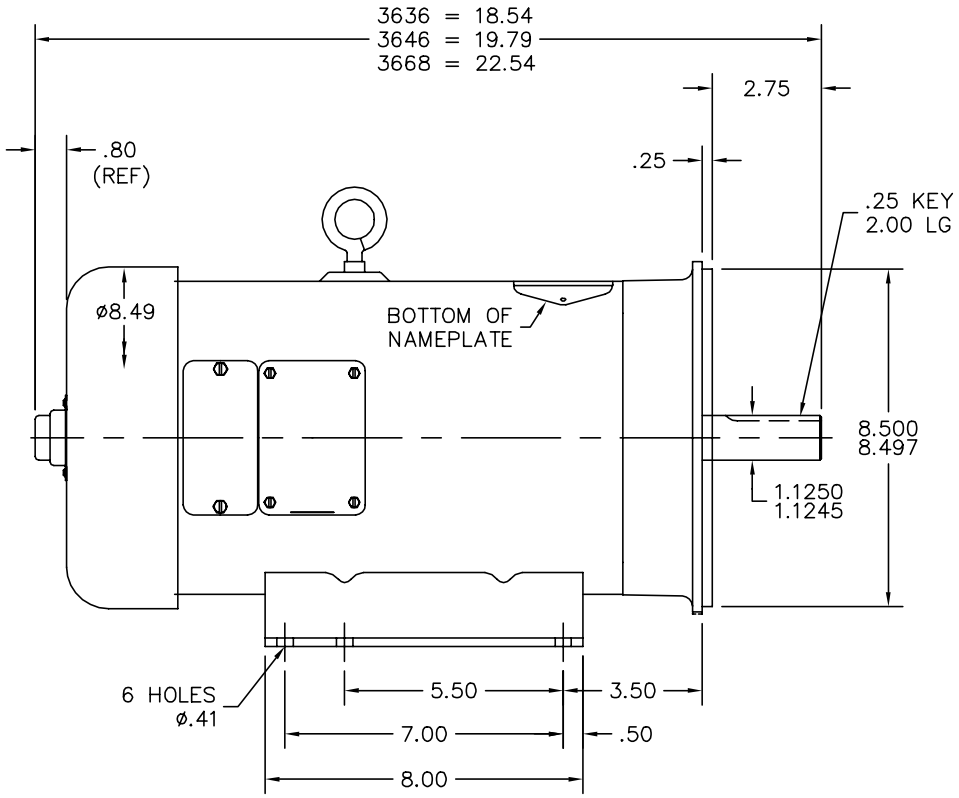
Load Characteristics at 180 Armature Volts, 200 Field Volts, 0.42 Field Amps

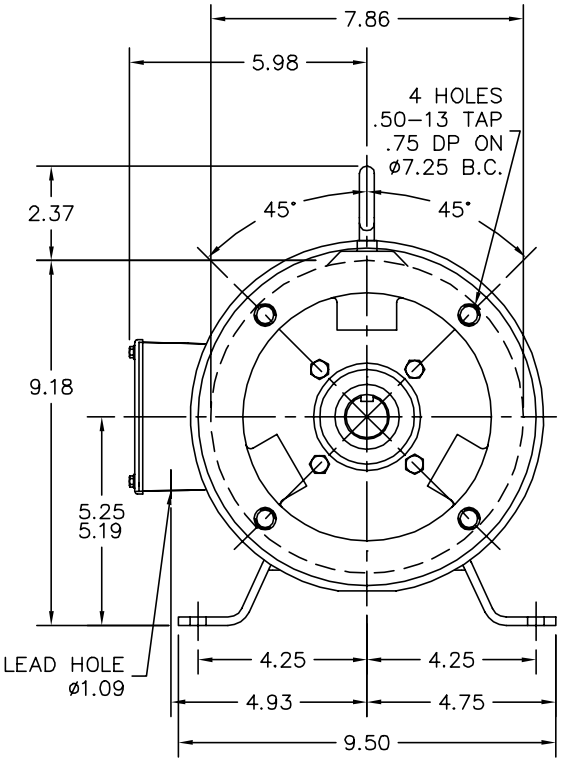
Load Point	1	2	3	4	5	6	7
Armature Amps	0.6	2.7	4.6	6.5	8.75	10.8	13
R.P.M.	1683	1669	1647	1637	1615	1602	1588
Torque (LB-FT)	0	1.5	3	4.5	6	7.5	9

Performance Graph at 180.0 Arm V, 2.0HP Typical performance - Not guaranteed values



36LY5580





CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

REV. DESC: CHG COMMUTATOR SHOVE TO .438"		
REV. LTR: D	VERSION: 04	TDR: 000000893585
FILE: \AAA\00160\322	REVISED: 01:23:18 02/20/2015	BY: ENGREH0
MTL: –		

BALDOR

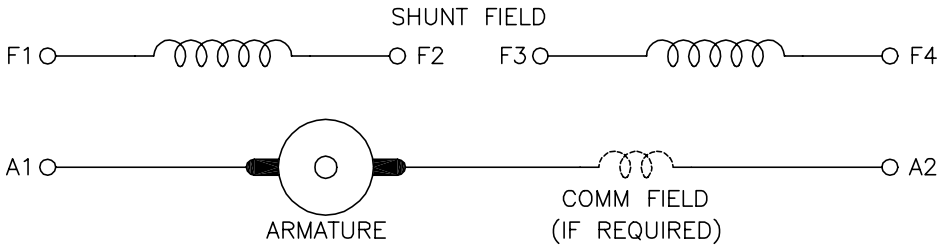
HOR 36DC NEMA 213–5C TEFC 2P W/BA = 3.50 & U = 1.1250 W/MFTK

SH 1 of 1

36LY5580

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.

CD0860C01

REV. DESC: NEW, REPLACE CD0860			BALDOR ELECTRIC Co.
REV. LTR: –	BY: JLP	REVISED: 15:35:22 11/03/2004	TDR: 347796
CD0860C01		FILE: AAA00121477	REF: CD0860C01
		MTL: –	DC CONNECTION DIAGRAM, SHUNT FIELD, 6 LEAD, DUAL VOLTAGE