

BALDOR • RELIANCE

Customer information packet

D2305

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

Class - None

Division -

Specifications

Armature Voltage	230 V
Base Speed	1750 rpm
Enclosure	TEFC
Field Voltage	230 V
Frame	184
Frame Material	Steel
Haz Area Class and Group	None
Output Power	1.500 HP
Agency Approvals	CSA UR
Ambient Temperature	40 °C
Armature Current	5.8 a
Armature Inertia	30.342 lb-ft ²
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	COMPOUND
Heater Indicator	No Heater
Lifting Lugs	Standard Lifting Lugs
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	2 @ 18 AWG 2 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	16.79 IN
Product Family	Weather Proof
Pulley End Bearing Type	Sealed Bearing
RoHS Status	ROHS COMPLIANT
Service Factor	1.00

Part detail

Revision	AK
Type	DC
Mech. spec.	36-5313
Base	
Status	PRD/A
Elec. spec.	36WGZ114
Layout	36LY5313
Eff. date	11-12-2024
CD Diagram	CD0862B01
Poles	00
Leads	
Proprietary	False
Created date	01-01-0001

Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger

Nameplate

NP2801L			
CAT.NO.	D2305		
SPEC.	36-5313Z114		
HP	1.5	ENCL	TEFC
RPM	1750		
FRAME	184	TYPE	3636D
ARM V	230	ARM A	5.8
FLD V	230	FLD A	.3
INSUL	F	AMB.	40
DUTY	CONT	SUPPLY	A
BRG/DE	6206	BRG/ODE	6205
BRUSHES	2/BP5125A01		
	--	BLANK	
SER.			
BLANK	IEEE 45		
APRV-CSA	APRV-UL		

DC Motor Performance Data

Record # 333

Typical performance - not guaranteed values

Winding: 36WGZ114-R001		Type: 3636D	Enclosure: TEFC
Nameplate Data		General Characteristics	
Rated Output (HP)	1.5	Armature Resistance @ 25°C	1.3495 Ω
R.P.M.	1750	Commutating Winding Resistance @ 25°C	0.8124 Ω
Armature Volts	230	Series Winding Resistance @ 25°C	0.2714 Ω
Armature Amps	5.8	Shunt Winding Resistance @ 25°C	739.9142 Ω
Field Volts	230		
Field Amps	0.3	Armature Inertia	30.3419 LI ²
Rating - Duty	40C AMB-CONT		
Power Supply Code	D		

Load Characteristics at 230 Armature Volts, 230 Field Volts, 0.28 Field Amps

Load Point	1	2	3	4	5	6	7
Armature Amps	0.6	3.1	4.25	5.55	6.7	8.1	9.3
R.P.M.	1861	1765	1721	1675	1643	1613	1579
Torque (LB-FT)	0	2.25	3.375	4.5	5.625	6.75	7.875

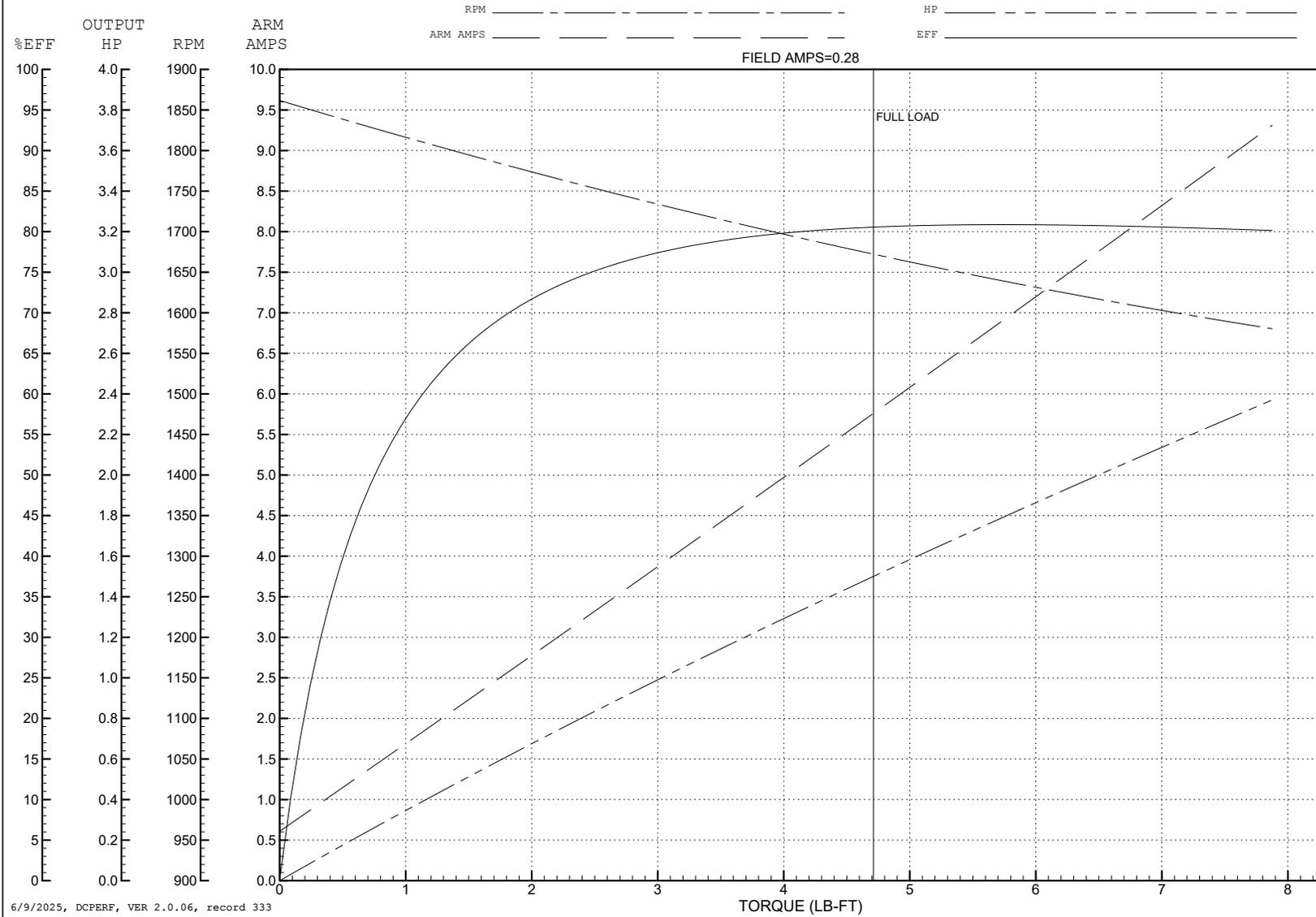
ABB Motors and Mechanical Inc.

WINDING # 36WGZ114

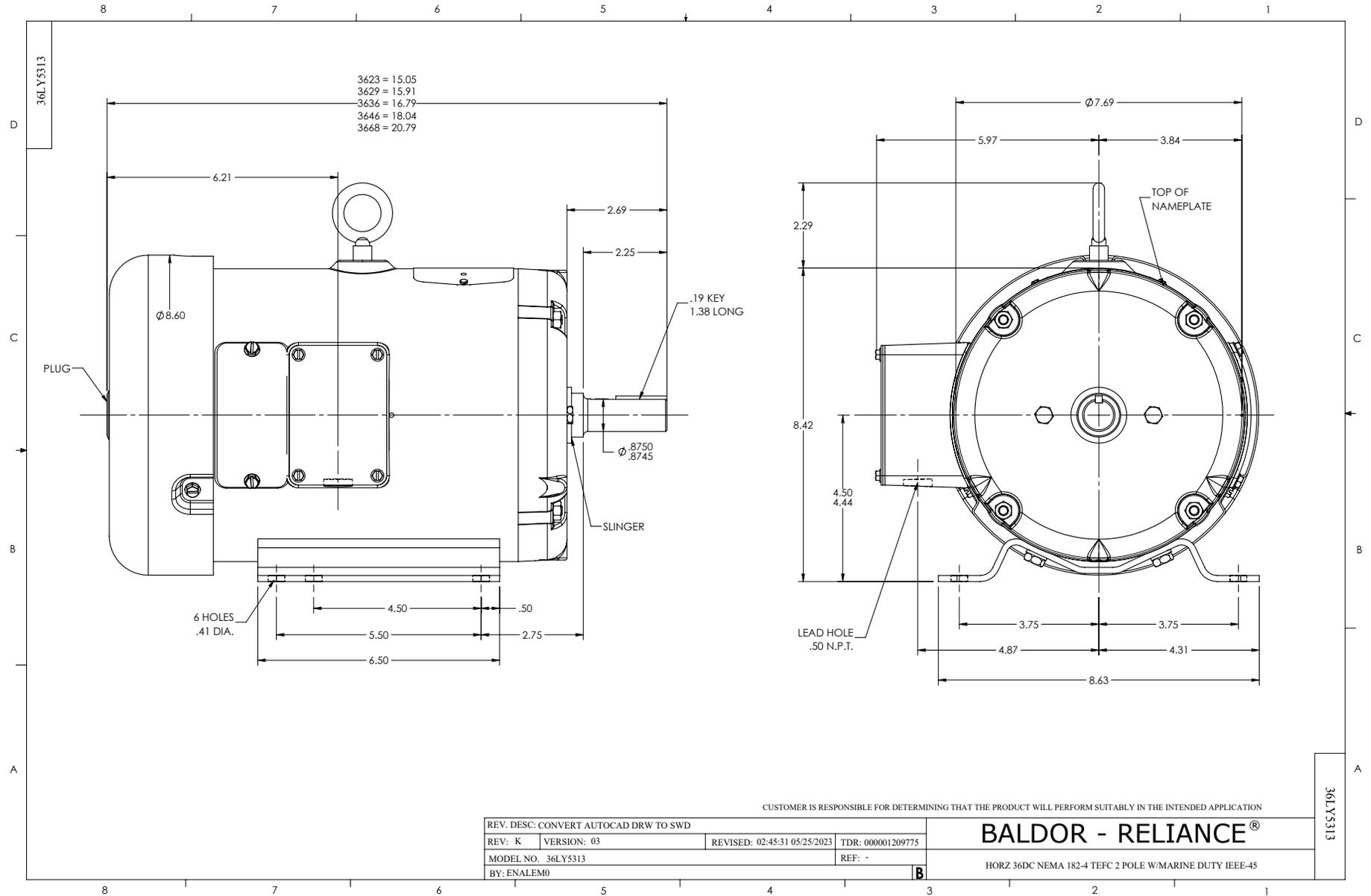
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1.5 HP DC 1750 RPM 230 V ARM 230 V FLD 3636D

ENCL: TEFC DUTY: CONT CL: F

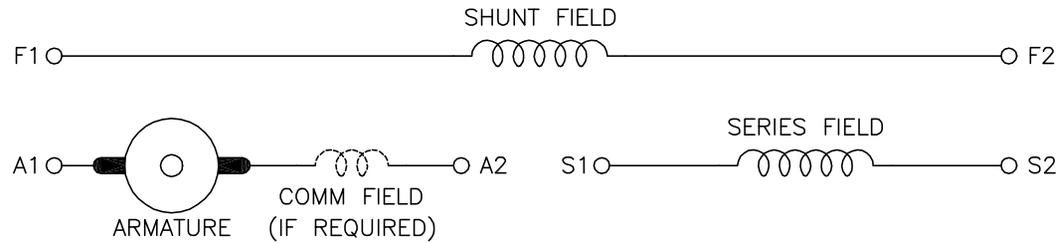


6/9/2025, DCPERF, VER 2.0.06, record 333



CD0862B01

COMPOUND WOUND



DIRECTION OF ROTATION			
CWDE		CCWDE	
POS TERM (+)	NEG TERM (-)	POS TERM (+)	NEG TERM (-)
A1	S2	A2	S2
F1	F2	F1	F2
CONNECT A2 & S1		CONNECT A1 & S1	

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 CD0862			
REV. LTR: -	BY: JLP	REVISED: 16:10:51 11/03/2004	TDR: 347796
CD0862B01		FILE: AAA00121482	REF: CD0862B01
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BALDOR ELECTRIC Co.

DC CONNECTION DIAGRAM, COMPOUND FIELD, 6 LEAD

CD0862B01