ABB BALDOR RELIANCE

Customer information packet

D2305

1.5HP, 1750RPM, DC, 184, 3636D, TEFC, F1
Class - None
Division -

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/16/2026 6:34:42 PM

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-ft2
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

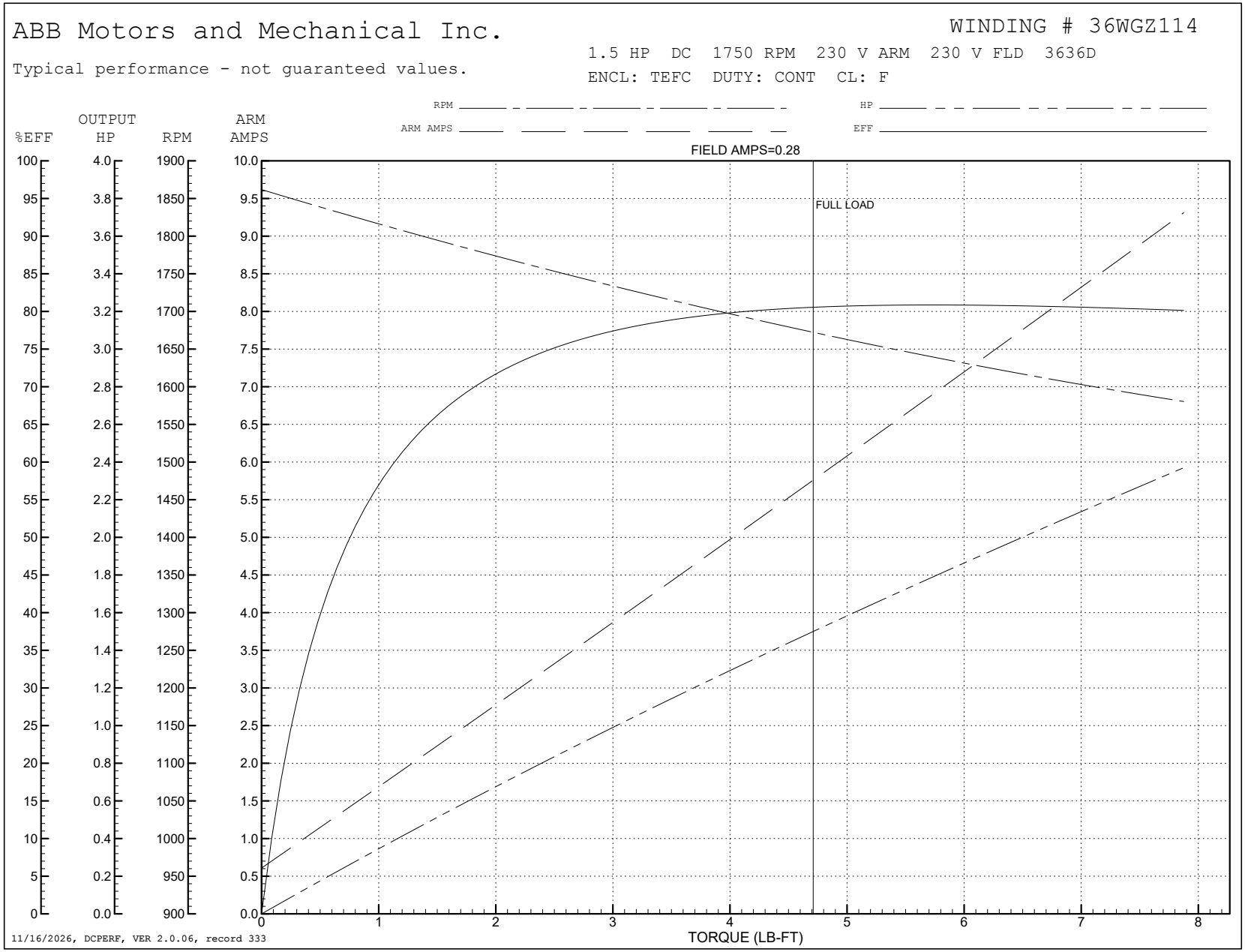
Winding: 36WGZ114-R001	**Type:** 3636D	**Enclosure:** TEFC

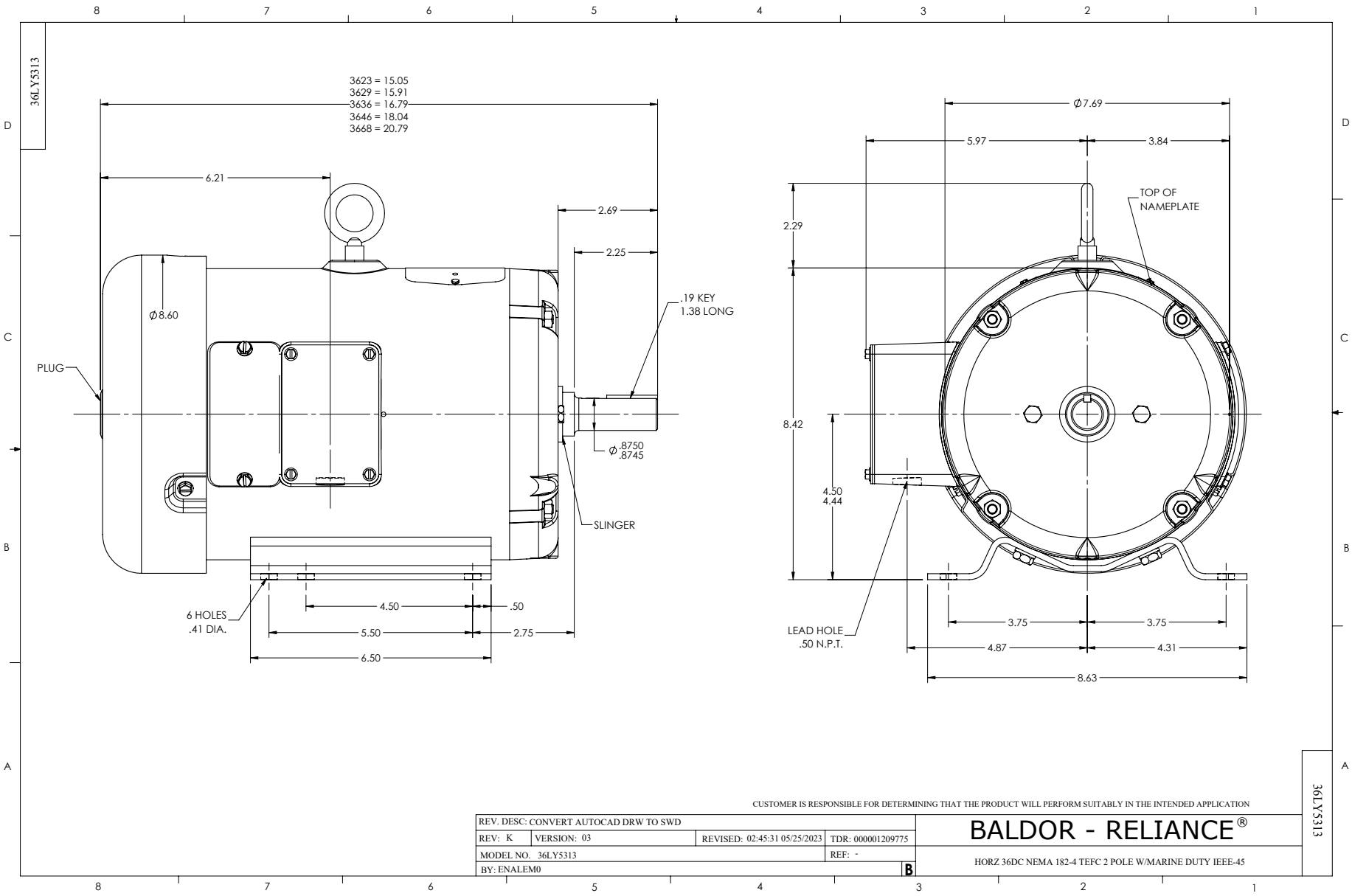
Nameplate Data	
Rated Output (HP)	1.5
R.P.M.	1750
Armature Volts	230
Armature Amps	5.8
Field Volts	230
Field Amps	0.3
Rating - Duty	40C AMB-CONT
Power Supply Code	D

General Characteristics	
Armature Resistance @ 25ºC	1.3495 Ω
Commutating Winding Resistance @ 25ºC	0.8124 Ω
Series Winding Resistance @ 25ºC	0.2714 Ω
Shunt Winding Resistance @ 25ºC	739.9142 Ω
Armature Inertia	30.3419 LI²

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

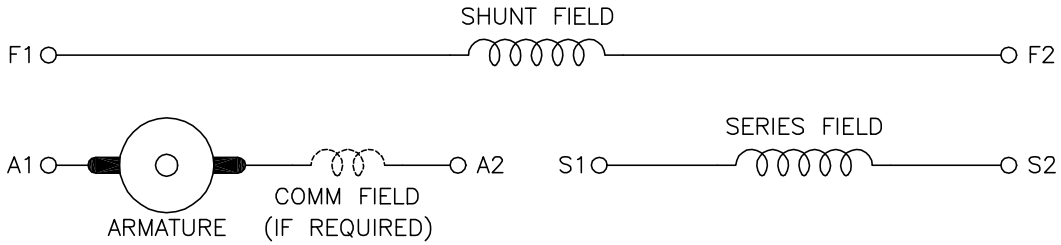
Load Point	**1**	**2**	**3**	**4**	**5**	**6**	**7**
Armature Amps	0.6	3.1	4.25	5.55	6.7	8.1	9.3
R.P.M.	1861	1765	1721	1675	1643	1613	1579
Torque (LB-FT)	0	2.25	3.375	4.5	5.625	6.75	7.875


ABB Motors and Mechanical Inc.
WINDING # 36WGZ114
1.5 HP DC 1750 RPM 230 V ARM 230 V FLD 3636D
ENCL: TEFC DUTY: CONT CL: F
Typical performance - not guaranteed values.
RPM
ARM AMPS
HP
EFF
%EFF
OUTPUT HP
RPM
ARM AMPS
FIELD AMPS=0.28
FULL LOAD
TORQUE (LB-FT)
11/16/2026, DCPERF, VER 2.0.06, record 333


36LY5313
3623 = 15.05
3629 = 15.91
3636 = 16.79
3646 = 18.04
3668 = 20.79
6.21
2.69
2.25
.19 KEY
1.38 LONG
Ø8.60
PLUG
Ø .8750
.8745
SLINGER
6 HOLES
.41 DIA.
4.50
.50
5.50
2.75
6.50
Ø7.69
5.97
3.84
TOP OF
NAMEPLATE
2.29
8.42
4.50
4.44
LEAD HOLE
.50 N.P.T.
3.75
3.75
4.87
4.31
8.63
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD
REV: K
VERSION: 03
REVISED: 02:45:31 05/25/2023
TDR: 000001209775
MODEL NO. 36LY5313
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ 36DC NEMA 182-4 TEFC 2 POLE W/MARINE DUTY IEEE-45
36LY5313

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.

CD0862B01

REV. DESC: NEW, REPLACE CD0862			BALDOR ELECTRIC Co.
REV. LTR: –	BY: JLP	REVISED: 16:10:51 11/03/2004	TDR: 347796
CD0862B01		FILE: AAA00121482	REF: CD0862B01
		MTL: –	DC CONNECTION DIAGRAM, COMPOUND FIELD, 6 LEAD