

ABB BALDOR RELIANCE III

Customer information packet D1151

.33HP, 1750RPM, DC, 56, 3413D, TEFC, F1

Class - None

Division -

Specifications

Armature Voltage	115 V
Base Speed	1750 rpm
Enclosure	TEFC
Frame	56
Frame Material	Steel
Haz Area Class and Group	None
Output Power	0.330 HP
Agency Approvals	CSA UR
Ambient Temperature	40 °C
Armature Current	3.2 a
Armature Inertia	3.042 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
Insulation Class	F
Lifting Lugs	No Lifting Lugs
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	2 @ 14 AWG 2 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	12.54 IN
Product Family	WP Below Decks Marine Duty
Pulley End Bearing Type	Sealed Bearing
RoHS Status	ROHS COMPLIANT
Service Factor	1.00

Part Detail

Revision	Z
Type	DC
Mech. spec.	34-6121
Base	
Status	PRD/A
Elec. spec.	34WG3115
Layout	34LY6121
Eff. date	10-25-2024
CD Diagram	CD0862B01
Poles	00
Leads	
Proprietary	False
Created date	01-01-0001

Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger

Nameplate

NP2801L			
CAT.NO.	D1151		
SPEC.	34-6121-3115		
HP	.33	ENCL	TEFC
RPM	1750		
FRAME	56	TYPE	3413D
ARM V	115	ARM A	3.2
FLD V		FLD A	
INSUL	F	AMB.	40
DUTY	CONT	SUPPLY	A
BRG/DE	6203	BRG/ODE	6203
BRUSHES	2/BP5000H03		
	IEEE 45	BLANK	
SER.			
BLANK	--		
APRV-CSA	APRV-UL		

DC Motor Performance Data

Record # 2017

Typical performance - not guaranteed values

Winding: 34WG3115-R001		Type: 3413D	Enclosure: TEFC
Nameplate Data		General Characteristics	
Rated Output (HP)	0.33	Armature Resistance @ 25°C	3.5351 Ω
R.P.M.	1750		
Armature Volts	115	Series Winding Resistance @ 25°C	1.0818 Ω
Armature Amps	2.9	Shunt Winding Resistance @ 25°C	339.14 Ω
Field Volts	115		
Field Amps	0.4	Armature Inertia	3.042 LI ²
Rating - Duty	40C AMB-CONT		
Power Supply Code	K		

Load Characteristics at 115 Armature Volts, 115 Field Volts, 0.36 Field Amps

Load Point	1	2	3	4	5	6	7
Armature Amps	0.45	1.8	2.4	3	3.7	4.5	5
R.P.M.	2200	1999	1924	1840	1760	1670	1580
Torque (LB-FT)	0	0.5	0.75	1	1.25	1.5	1.75

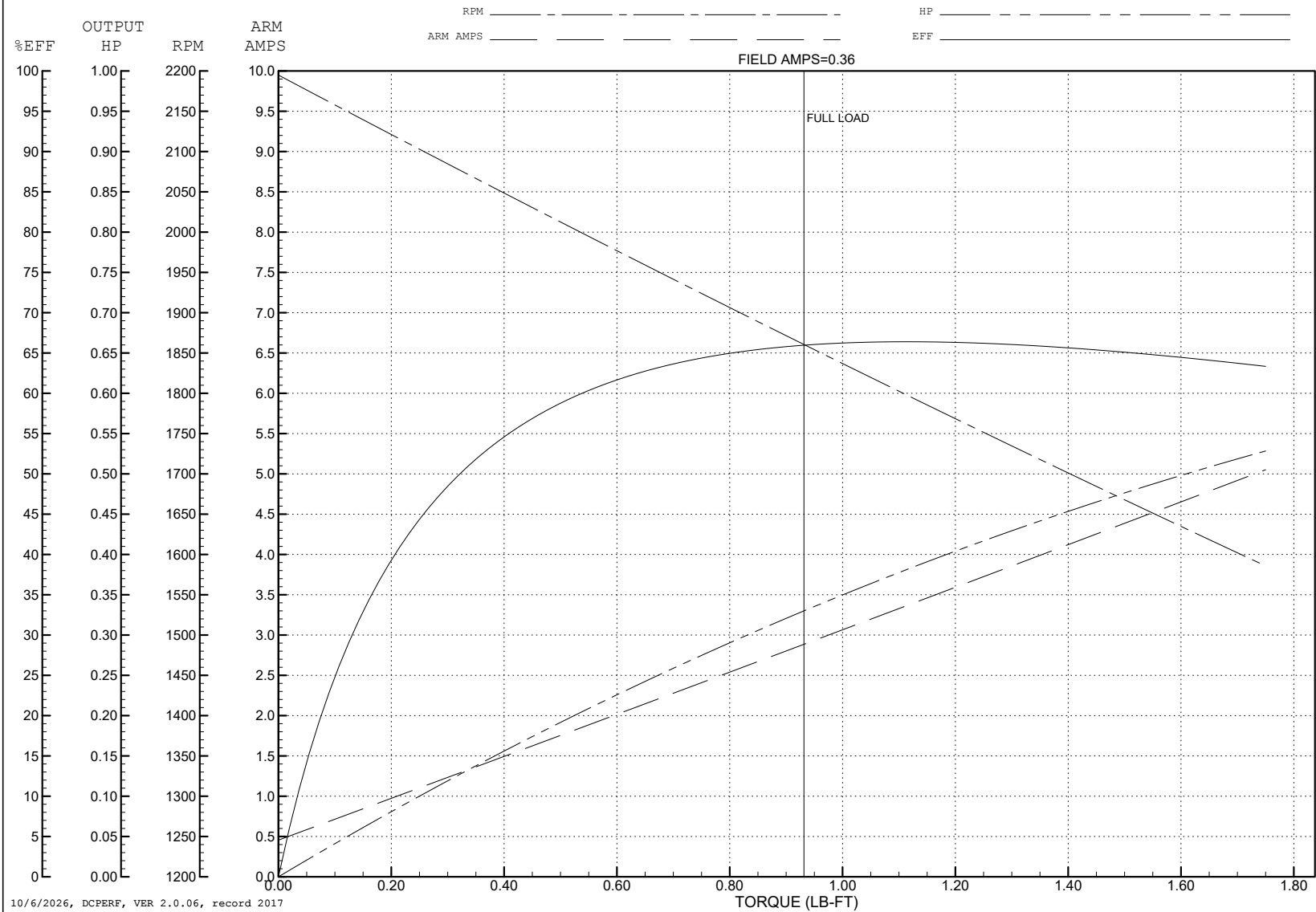
ABB Motors and Mechanical Inc.

WINDING # 34WG3115

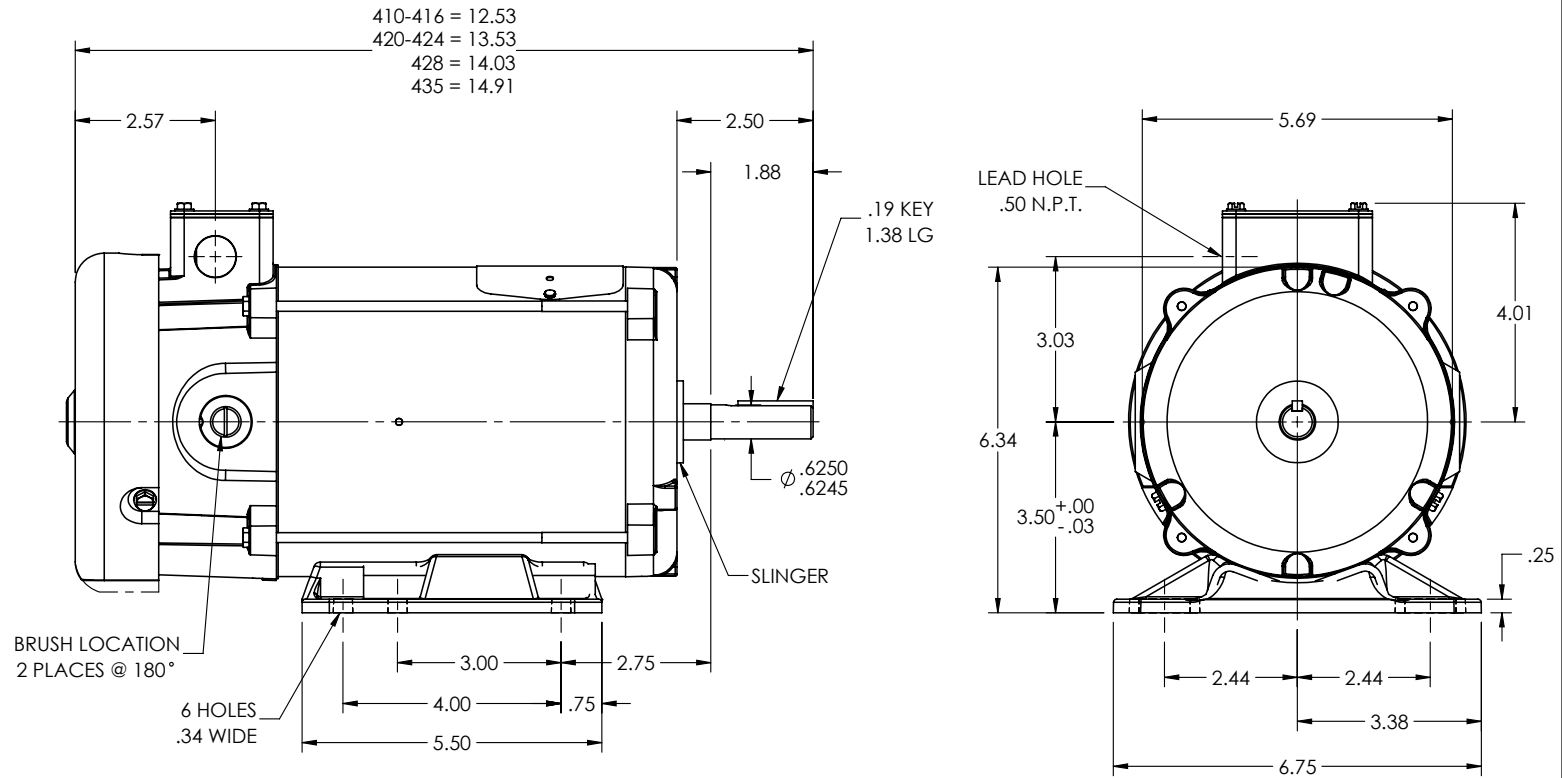
Typical performance - not guaranteed values.

0.33 HP DC 1750 RPM 115 V ARM 115 V FLD 3413D

ENCL: TEFC DUTY: CONT CL: F



34LY6121



CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

REV. DESC: LOAD TO SOLIDWORKS - REV D

REV: E

VERSION: 01

REVISED: 08:22:18 12/22/2022

TDR: 000001201165

BALDOR - RELIANCE®

34LY6121

MODEL NO. 34LY6121

BY: ENFRAJ0

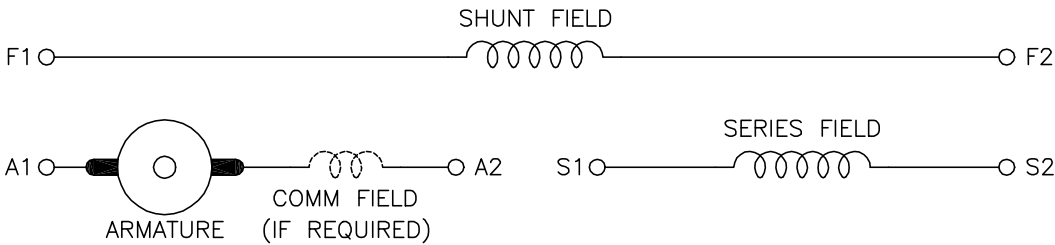
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STD. HORZ 34DC NEMA 56 TEFC S/P 14-2 WEATHERPROOF

34LY6121

COMPOUND WOUND

CD0862B01



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

MTL: -

REF: CD0862B01

BALDOR ELECTRIC Co.

DC CONNECTION DIAGRAM, COMPOUND FIELD, 6 LEAD

CD0862B01