

**BALDOR® • RELIANCE™**

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# Customer information packet

## D2303

.75HP, 1750RPM, DC, 56, 3428D, TEFC, F1, N

Class - None

Division -

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6/9/2025 3:57:52 AM

## Specifications

Armature Voltage	230 V
Base Speed	1750 rpm
Enclosure	TEFC
Frame	56
Frame Material	Steel
Haz Area Class and Group	None
Output Power	0.750 HP
Agency Approvals	CSA UR
Ambient Temperature	40 °C
Armature Current	3.3 a
Armature Inertia	6.552 lb-ft <sup>2</sup>
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	14.04 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	AC
Type	DC
Mech. spec.	34-6121
Base	
Status	PRD/A
Elec. spec.	34WG3118
Layout	34LY6121
Eff. date	10-25-2024
CD Diagram	CD0862B01
Poles	00
Leads	
Proprietary	False
Created date	01-01-0001

<b>Shaft Diameter</b>	0.625 IN
<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>	Shaft Slinger

**Nameplate**

<b>NP2801L</b>			
<b>CAT.NO.</b>	D2303		
<b>SPEC.</b>	34-6121-3118		
<b>HP</b>	.75	<b>ENCL</b>	TEFC
<b>RPM</b>	1750		
<b>FRAME</b>	56	<b>TYPE</b>	3428D
<b>ARM V</b>	230	<b>ARM A</b>	3.3
<b>FLD V</b>		<b>FLD A</b>	
<b>INSUL</b>	F	<b>AMB.</b>	40
<b>DUTY</b>	CONT	<b>SUPPLY</b>	A
<b>BRG/DE</b>	6203	<b>BRG/ODE</b>	6203
<b>BRUSHES</b>	2/BP5000H03		
	IEEE 45	<b>BLANK</b>	
<b>SER.</b>			
<b>BLANK</b>	--		
<b>APRV-CSA</b>	<b>APRV-UL</b>		

**DC Motor Performance Data**

Record # 1420

Typical performance - not guaranteed values

Winding: 34WG3118-R001		Type: 3428D	Enclosure: TEFC	
<b>Nameplate Data</b>		<b>General Characteristics</b>		
Rated Output (HP)	0.75	Armature Resistance @ 25°C	4.8044 Ω	
R.P.M.	1750	Series Winding Resistance @ 25°C	1.4374 Ω	
Armature Volts	230	Shunt Winding Resistance @ 25°C	743.473 Ω	
Armature Amps	3.3			
Field Volts				
Field Amps				
Rating - Duty	40C AMB-CONT			
Power Supply Code	D			

**Load Characteristics at 230 Armature Volts**

Load Point	1	2	3	4	5	6	7
Armature Amps	0.74	1.37	2.01	2.68	3.31	3.99	4.66
R.P.M.	1995	1936	1876	1808	1750	1687	1640
Torque ( LB-FT )	0	0.563	1.125	1.688	2.25	2.813	3.375

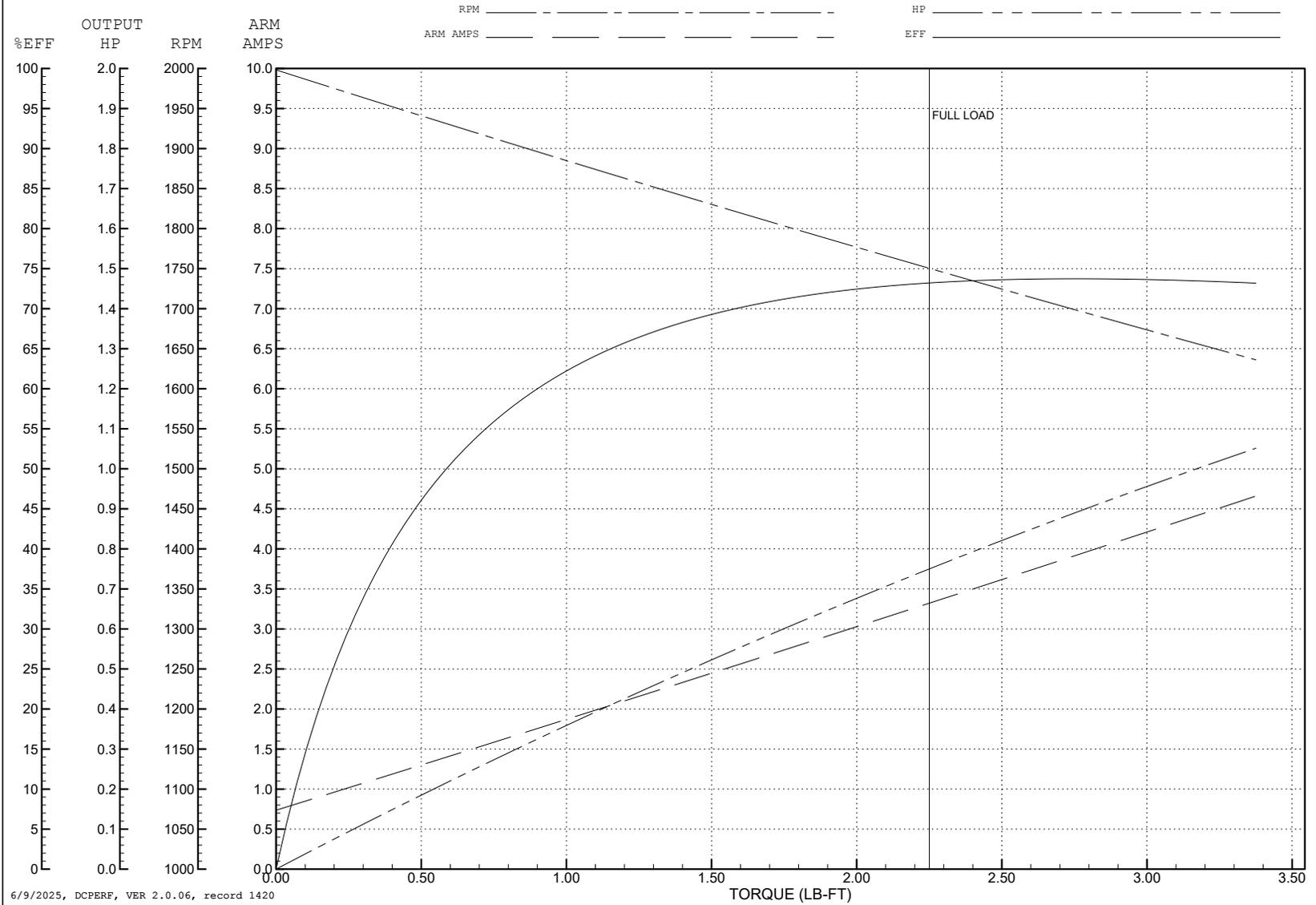
ABB Motors and Mechanical Inc.

WINDING # 34WG3118

0.75 HP DC 1750 RPM 230 V 3428D

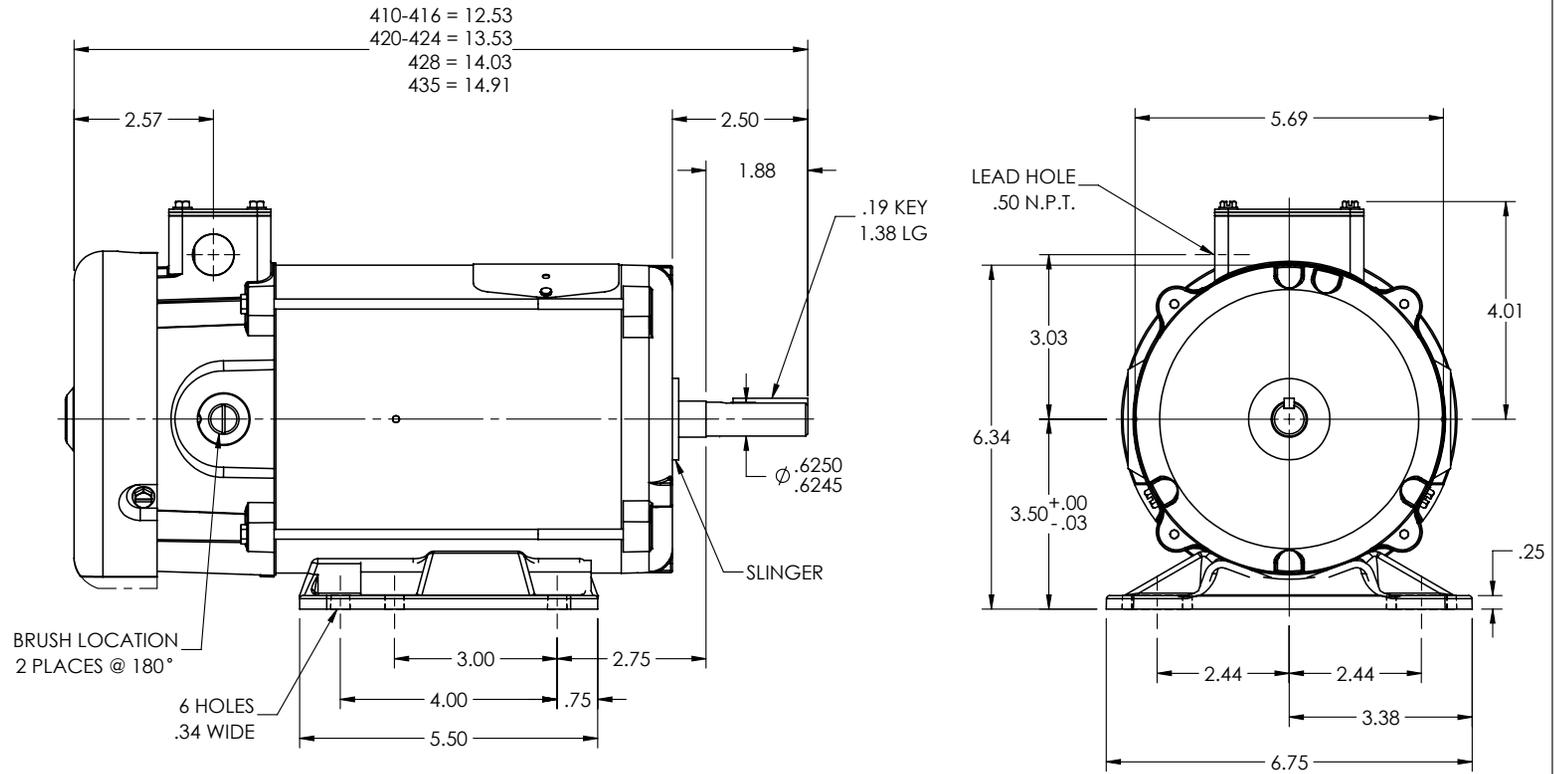
Typical performance - not guaranteed values.

ENCL: TEFC DUTY: CONT CL: F



6/9/2025, DCPERF, VER 2.0.06, record 1420

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

34LY6121

MODEL NO. 34LY6121  
 BY: ENFRAJ0

REF: -

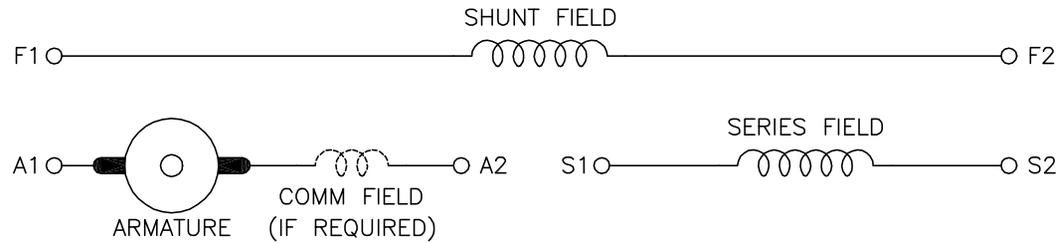
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STD. HORZ 34DC NEMA 56 TEFC S/P 14-2 WEATHERPROOF

34LY6121

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:

- 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.
- OPTIONAL FIELD REOSTAT MAY BE CONNECTED IN SERIES WITH THE SHUNT FIELD.
- 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
		MTL: -	

**BALDOR ELECTRIC Co.**

DC CONNECTION DIAGRAM, COMPOUND FIELD, 6 LEAD

CD0862B01