

**BALDOR • RELIANCE**

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# Customer information packet

## D2301

.33HP, 1750RPM, DC, 56, 3513D, TEFC, F1

Class - None

Division -

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## Specifications

Armature Voltage	230 V
Base Speed	1750 rpm
Enclosure	TEFC
Frame	56
Frame Material	Steel
Haz Area Class and Group	None
Output Power	0.330 HP
Agency Approvals	CSA UR
Ambient Temperature	40 °C
Armature Current	1.7 a
Armature Inertia	5.073 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
Lifting Lugs	No Lifting Lugs
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	2 @ 18 AWG 2 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	13.06 IN
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	0.625 IN

## Part detail

Revision	Y
Type	DC
Mech. spec.	35P316
Base	
Status	PRD/A
Elec. spec.	35WGZ393
Layout	35LYP316
Eff. date	10-28-2024
CD Diagram	CD0862B01
Poles	00
Leads	
Proprietary	False
Created date	01-01-0001

<b>Shaft Extension Location</b>	<b>Pulley End</b>
<b>Shaft Ground Indicator</b>	<b>No Shaft Grounding</b>
<b>Shaft Rotation</b>	<b>Reversible</b>
<b>Shaft Slinger Indicator</b>	<b>No Slinger</b>

**Nameplate**

<b>NP0111L</b>			
<b>CAT.NO.</b>	D2301		
<b>SPEC.</b>	35P316Z393		
<b>HP</b>	.33	<b>ENCL</b>	TEFC
<b>RPM</b>	1750		
<b>FRAME</b>	56	<b>TYPE</b>	3513D
<b>ARM V</b>	230	<b>ARM A</b>	1.7
<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>	6205	<b>BRG/ODE</b>	6203
<b>BRUSHES</b>	2/BP5000T15		
	BLANK		
<b>SER.</b>			
<b>BLANK</b>			
<b>APRV-CSA</b>		<b>APRV-UL</b>	

**DC Motor Performance Data**

Record # 1416

Typical performance - not guaranteed values

<b>Winding: 35WGZ393-R001</b>		<b>Type: 3413D</b>	<b>Enclosure: TEFC</b>
<b>Nameplate Data</b>		<b>General Characteristics</b>	
Rated Output (HP)	0.33	Armature Resistance @ 25°C	8.194 Ω
R.P.M.	1750	Commutating Winding Resistance @ 25°C	6.818 Ω
Armature Volts	230	Series Winding Resistance @ 25°C	2.516 Ω
Armature Amps	1.7	Shunt Winding Resistance @ 25°C	705.6 Ω
Field Volts		Armature Inductance	75.832 mH
Field Amps			
Rating - Duty	40C AMB-CONT		
Power Supply Code	A		

**Load Characteristics at 230 Armature Volts**

Load Point	1	2	3	4	5	6	7
Armature Amps	0.5	1.01	1.35	1.66	2.03	2.38	2.73
R.P.M.	2249	2146	2077	2032	1964	1881	1795
Torque ( LB-FT )	0	0.25	0.5	0.75	1	1.25	1.5

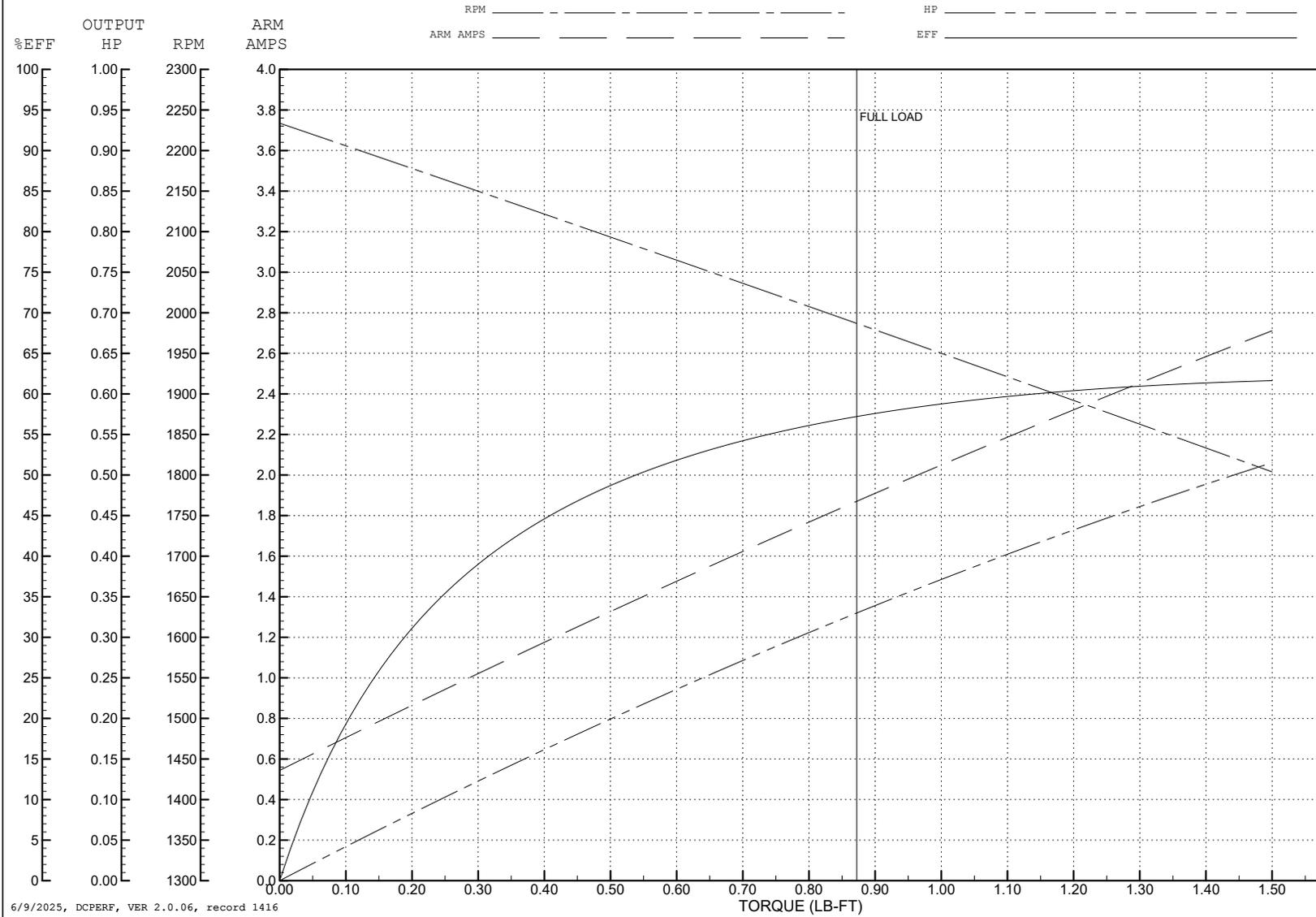
ABB Motors and Mechanical Inc.

WINDING # 35WGZ393

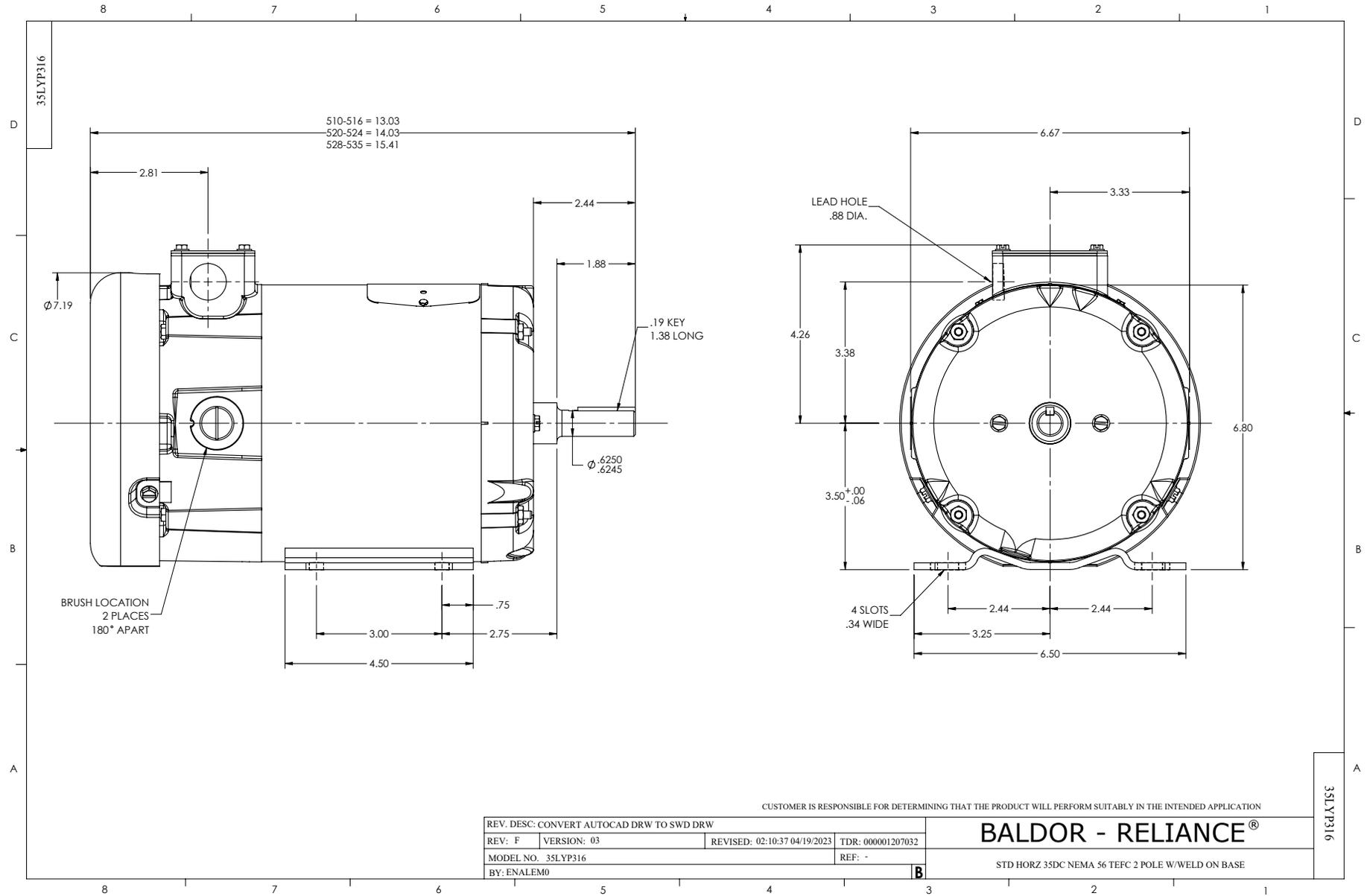
0.33 HP DC 1750 RPM 230 V 3413D

Typical performance - not guaranteed values.

ENCL: TEFC DUTY: CONT CL: F

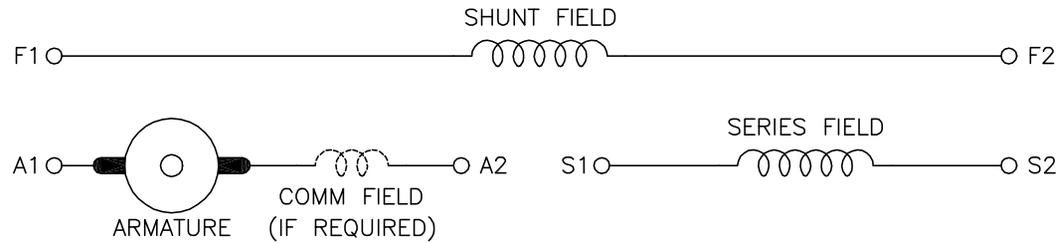


6/9/2025, DCPERF, VER 2.0.06, record 1416



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			
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CD0862B01		FILE: AAA00121482	REF: CD0862B01
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**BALDOR ELECTRIC Co.**

DC CONNECTION DIAGRAM, COMPOUND FIELD, 6 LEAD

CD0862B01