



Customer information packet

D2301

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

Class - None

Division -

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 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	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

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

Nameplate

NP0111L				
CAT.NO.	D2301			
SPEC.	35P316Z393			
HP	.33	ENCL		TEFC
RPM	1750			
FRAME	56	TYPE		3513D
ARM V	230	ARM A		1.7
FLD V		FLD A		
INSUL	F	AMB.	40	
DUTY	CONT		SUPPLY	A
BRG/DE	6205	BRG/ODE		6203
BRUSHES	2/BP5000T15			
		BLANK		
SER.				
BLANK				
APRV-CSA		APRV-UL		

DC Motor Performance Data

Record # 1416

Typical performance - not guaranteed values

Winding: 35WGZ393-R001		Type: 3413D	Enclosure: TEFC
Nameplate Data		General Characteristics	
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

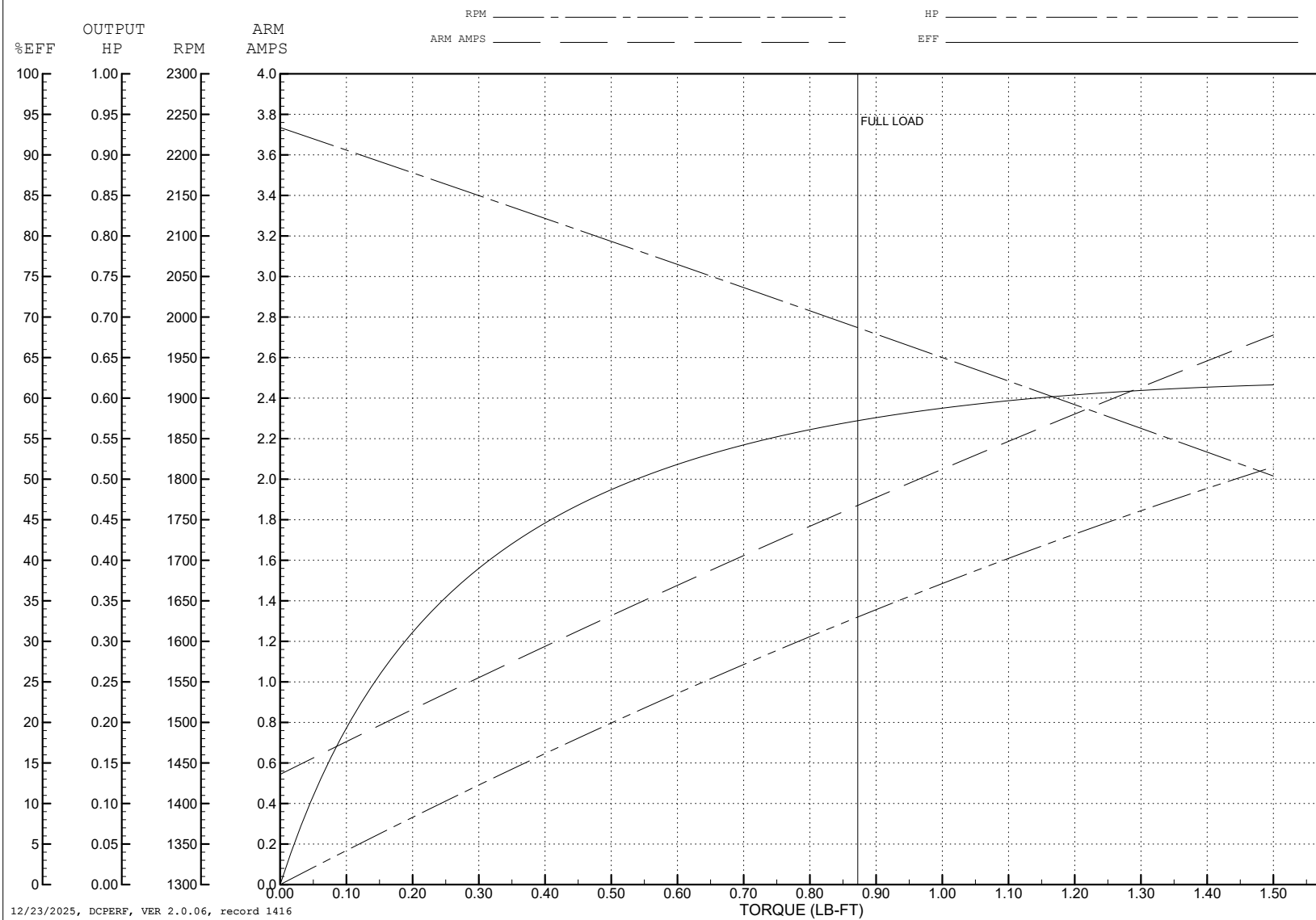
ABB Motors and Mechanical Inc.

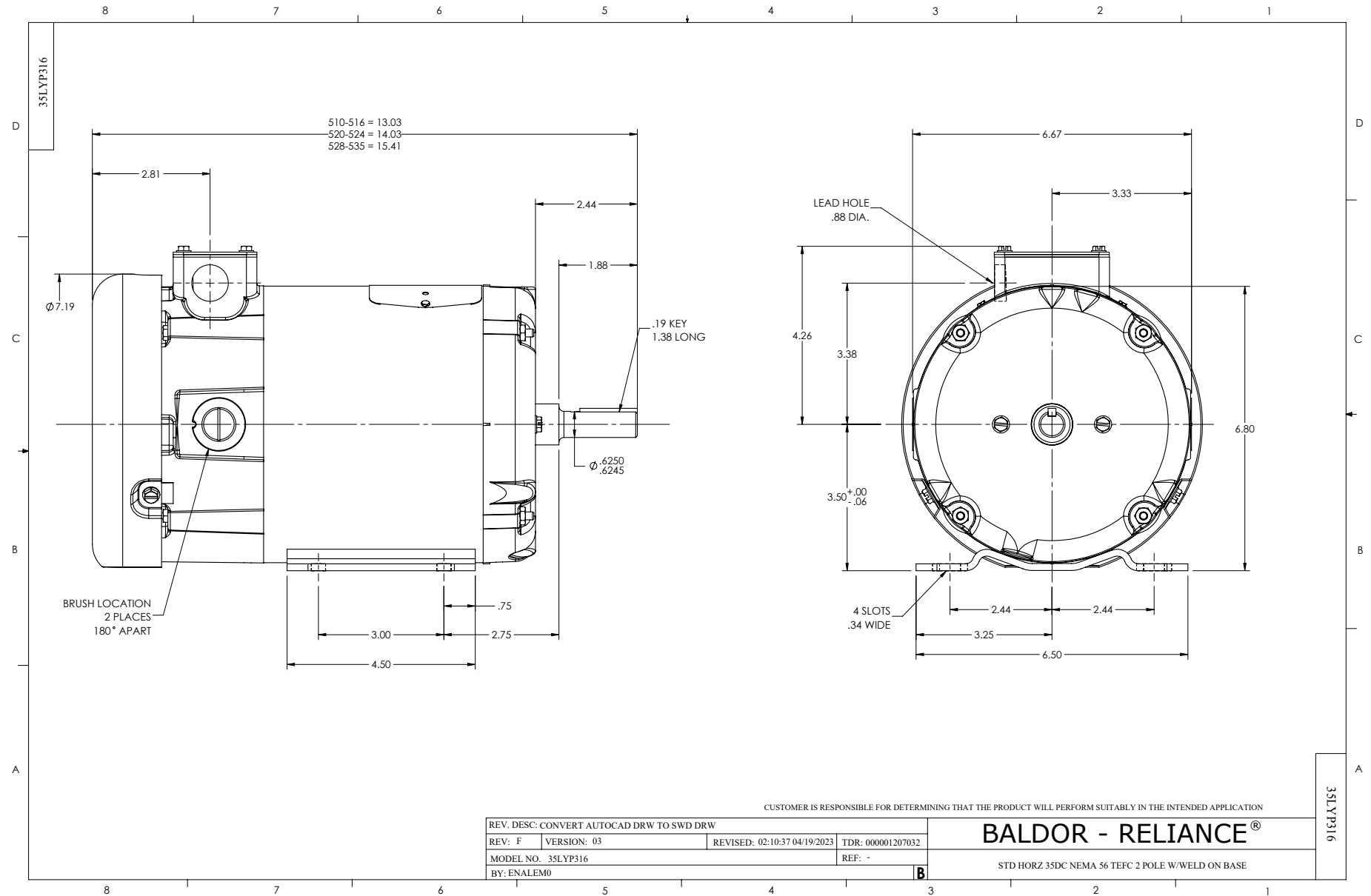
WINDING # 35WGZ393

0.33 HP DC 1750 RPM 230 V 3413D

Typical performance - not guaranteed values.

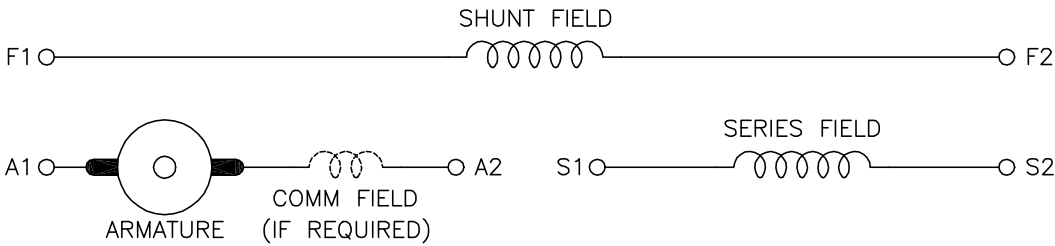
ENCL: TEFC DUTY: CONT CL: F





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

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MTL: -

REF: CD0862B01

BALDOR ELECTRIC Co.

DC CONNECTION DIAGRAM, COMPOUND FIELD, 6 LEAD

CD0862B01