ABB BALDOR RELIANCE

Customer information packet

D2304

1HP, 1750RPM, DC, 56, 3535D, TEFC, F1
Class - None
Division -

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Specifications

Armature Voltage	230 V
Base Speed	1750 rpm
Enclosure	TEFC
Field Voltage	230 V
Frame	56
Frame Material	Steel
Haz Area Class and Group	None
Output Power	1.000 HP
Agency Approvals	CSA
	UR
Ambient Temperature	40 °C
Armature Current	4.0 a
Armature Inertia	13.657 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	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	15.44 IN
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Service Factor	1.00
Shaft Diameter	0.625 IN

Part Detail

Revision	T
Type	DC
Mech. spec.	35P328
Base	
Status	PRD/A
Elec. spec.	35WGZ395
Layout	35LYP328
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	Shaft Slinger

Nameplate

NP0111L					
CAT.NO.	D2304				
SPEC.	35P328Z395				
HP	1	**ENCL**	TEFC		
RPM	1750				
FRAME	56	**TYPE**	3535D		
ARM V	230	**ARM A**	4		
FLD V	230	**FLD A**	.25		
INSUL	F	**AMB.**	40		
DUTY	CONT	**SUPPLY**	A		
BRG/DE	6205	**BRG/ODE**	6203		
BRUSHES	2/BP5000T15				
	--	**BLANK**			
SER.					
BLANK	IEEE 45				
APRV-CSA		**APRV-UL**			

DC Motor Performance Data
Record # 281
Typical performance - not guaranteed values

Winding: 35WGZ395-R001	**Type:** 3535D	**Enclosure:** TEFC

Nameplate Data	
Rated Output (HP)	1
R.P.M.	1750
Armature Volts	230
Armature Amps	4
Field Volts	230
Field Amps	0.25
Rating - Duty	40C AMB-CONT
Power Supply Code	D

General Characteristics	
Armature Resistance @ 25ºC	3.18 Ω
Commutating Winding Resistance @ 25ºC	2.35 Ω
Series Winding Resistance @ 25ºC	7.34 Ω
Shunt Winding Resistance @ 25ºC	868 Ω
Armature Inertia	13.657 LI²
Temp. Rise @ Rated Load	88°C

Load Characteristics at 230 Armature Volts, 230 Field Volts, 0.26 Field Amps

Load Point	**1**	**2**	**3**	**4**	**5**	**6**	**7**
Armature Amps	0.55	1.4	2.15	3.1	3.9	4.75	5.65
R.P.M.	1858	1797	1736	1682	1644	1596	1554
Torque (LB-FT)	0	0.75	1.5	2.25	3	3.75	4.5

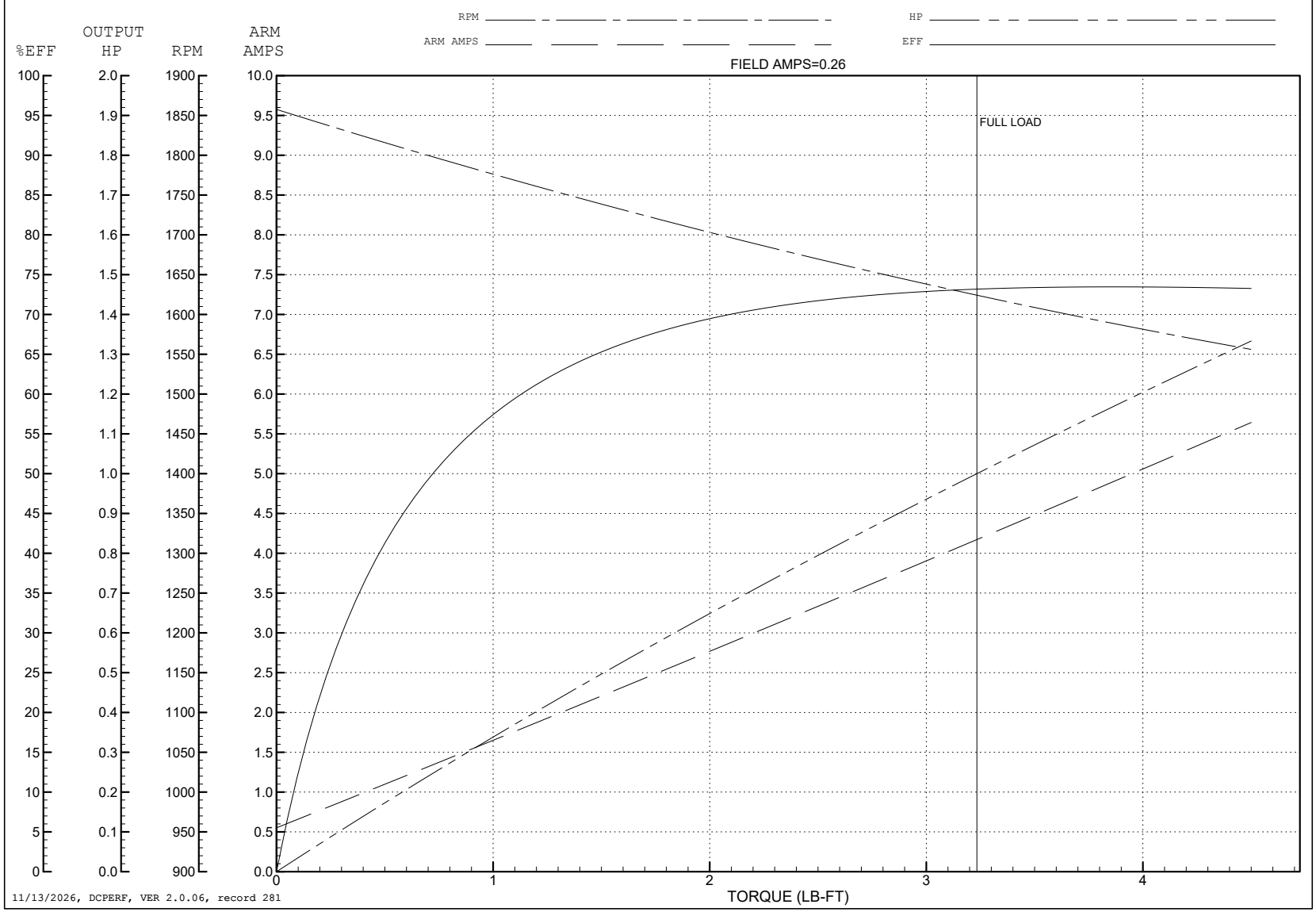
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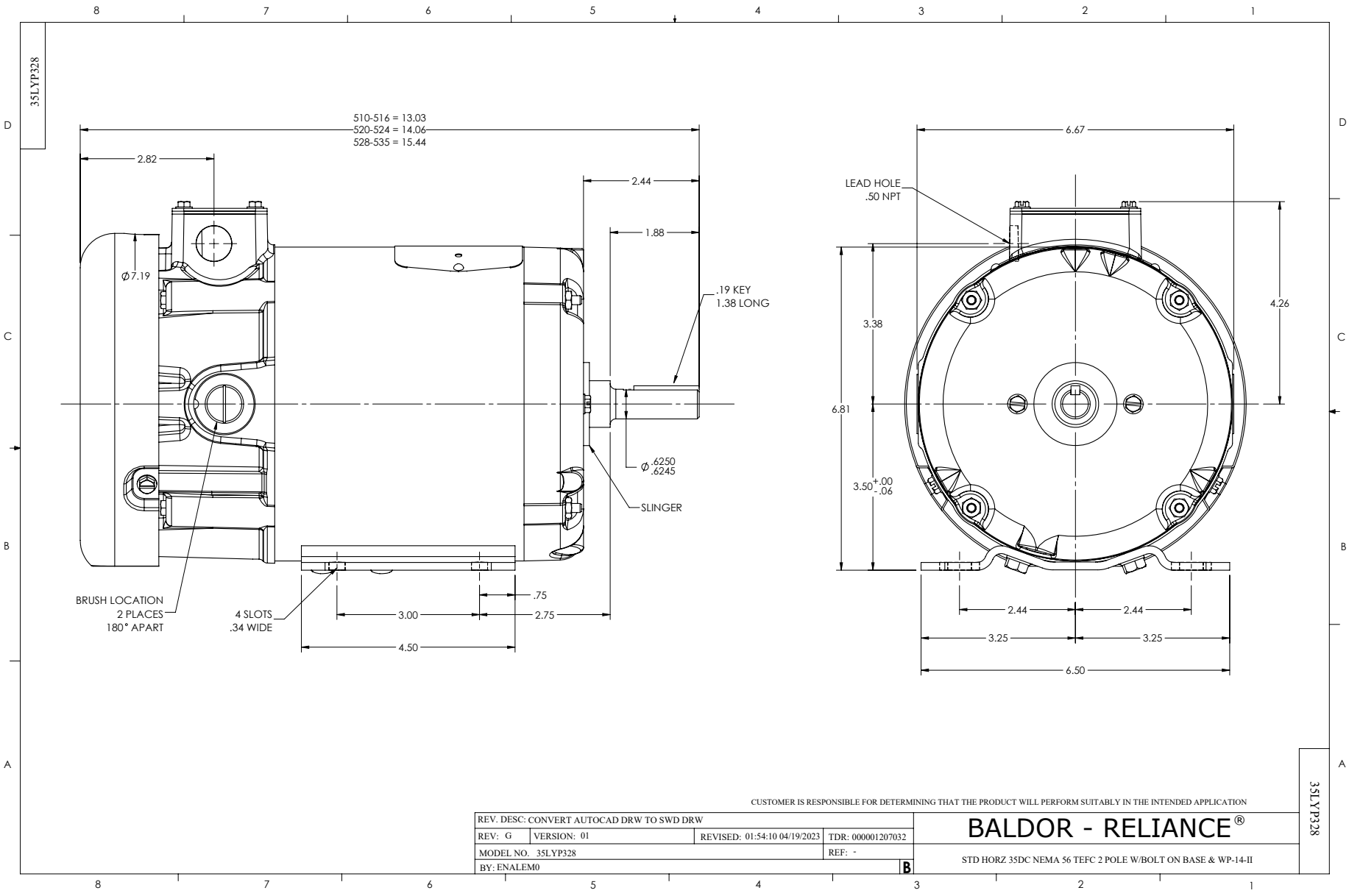
WINDING # 35WGZ395

1 HP DC 1750 RPM 230 V ARM 230 V FLD 3535D

ENCL: TEFC DUTY: CONT CL: F

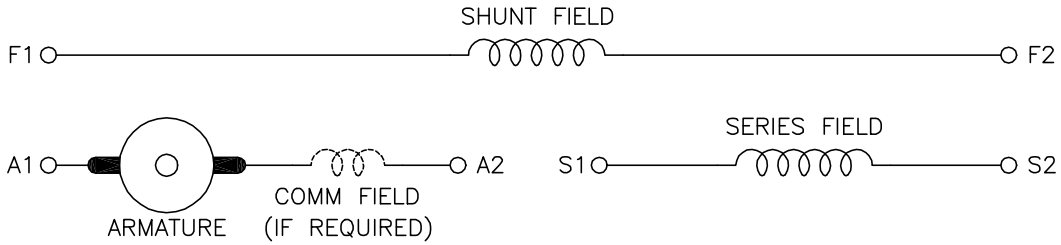
Typical performance - not guaranteed values.




35LYP328
510-516 = 13.03
520-524 = 14.06
528-535 = 15.44
2.82
2.44
1.88
Ø7.19
.19 KEY
1.38 LONG
Ø .6250
.6245
SLINGER
BRUSH LOCATION
2 PLACES
180° APART
4 SLOTS
.34 WIDE
.75
3.00
2.75
4.50
6.67
LEAD HOLE
.50 NPT
4.26
3.38
6.81
3.50 +.00 -.06
2.44
2.44
3.25
3.25
6.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: G
VERSION: 01
REVISED: 01:54:10 04/19/2023
TDR: 000001207032
MODEL NO. 35LYP328
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD HORZ 35DC NEMA 56 TEFC 2 POLE W/BOLT ON BASE & WP-14-II
35LYP328

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