ABB BALDOR RELIANCE

Customer information packet

CDX7150

1.5HP, 1750RPM, DC, 184C, X3636D, XPFC, F1
Class - CLI GP D; CLII GP F,G
Division -

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11/27/2026 12:42:23 AM

Specifications

Armature Voltage	180 V
Base Speed	1750 rpm
Enclosure	XPFC
Field Voltage	100 V
	200 V
Frame	184C
Frame Material	Steel
Haz Area Class and Group	CLI GP D; CLII GP F,G
Output Power	1.500 HP
Agency Approvals	CSA
	UL
	UR
Ambient Temperature	40 °C
Armature Current	7.5 a
Armature Inertia	30.342 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	SHUNT
Haz Area Temp Code	T3B
Heater Indicator	No Heater
Lifting Lugs	No Lifting Lugs
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	2 @ 12 AWG
	4 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	20.30 IN
Product Family	General Purpose

Part Detail

Revision	AZ
Type	DC
Mech. spec.	36-4687
Base	
Status	PRD/A
Elec. spec.	36WGZ106
Layout	36LY4687
Eff. date	12-26-2024
CD Diagram	CD0860C01
Poles	00
Leads	
Proprietary	False
Created date	01-01-0001

Pulley End Bearing Type	Sealed Bearing
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger

Nameplate

NP0727XPSL					
NO.					
SER.					
SPEC.	36-4687Z106				
CAT.NO.	CDX7150		**T. CODE**	T3B	
HP	1.5		**ENCL**	XPFC	
RPM	1750				
FRAME	184C	**TYPE**	3636D		
ARM V	180	**ARM A**	7.5		
FLD V	200/100	**FLD A**	.25/.5		
INSUL	F	**AMB.**	40		
DUTY	CONT	**SUPPLY**	K		
BRG/DE	BG6206	**BRG/ODE**	BG6205		
BRUSHES	2/BP5125A01				
BLANK					

DC Motor Performance Data
Record # 2270
Typical performance - not guaranteed values

Winding: 36WGZ106-R009	**Type:** 3636D	**Enclosure:** TEFC

Nameplate Data	
Rated Output (HP)	1.5
R.P.M.	1750
Armature Volts	180
Armature Amps	7.5
Field Volts	200 / 100
Field Amps	0.25 / 0.5
Rating - Duty	40C AMB-CONT
Power Supply Code	K

General Characteristics	
Armature Resistance @ 25ºC	0.8797 Ω
Commutating Winding Resistance @ 25ºC	0.5855 Ω
Shunt Winding Resistance @ 25ºC	311.7 Ω
Armature Inductance	13.549 mH
Armature Inertia	30.342 LI²

Load Characteristics at 180 Armature Volts, 200 Field Volts, 0.28 Field Amps

Load Point	**1**	**2**	**3**	**4**	**5**	**6**	**7**
Armature Amps	0.54	2	3.55	5.23	6.61	8.27	10.48
R.P.M.	1782	1788	1777	1769	1779	1778	1779
Torque (LB-FT)	0	1.13	2.26	3.39	4.5	5.63	6.75

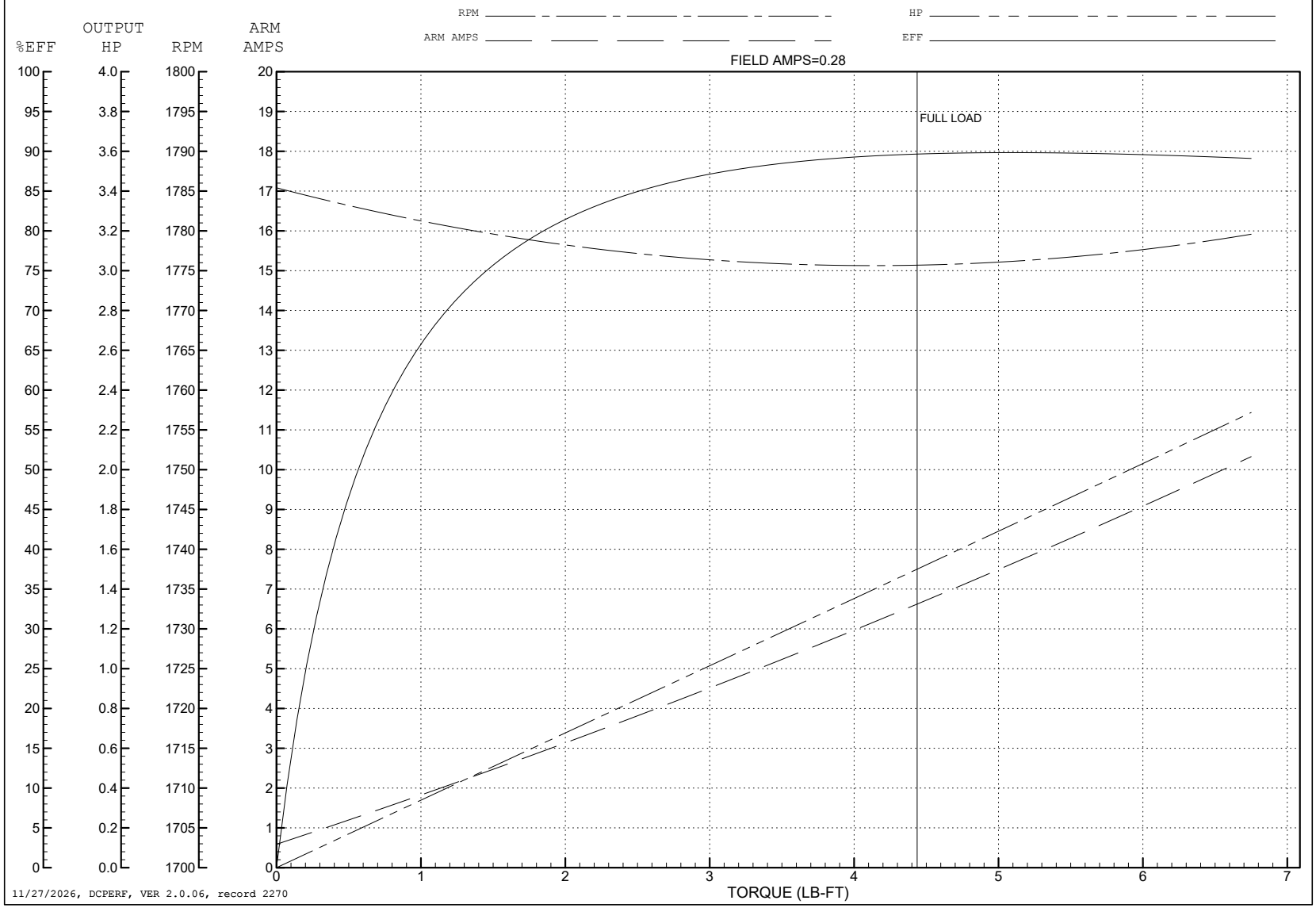
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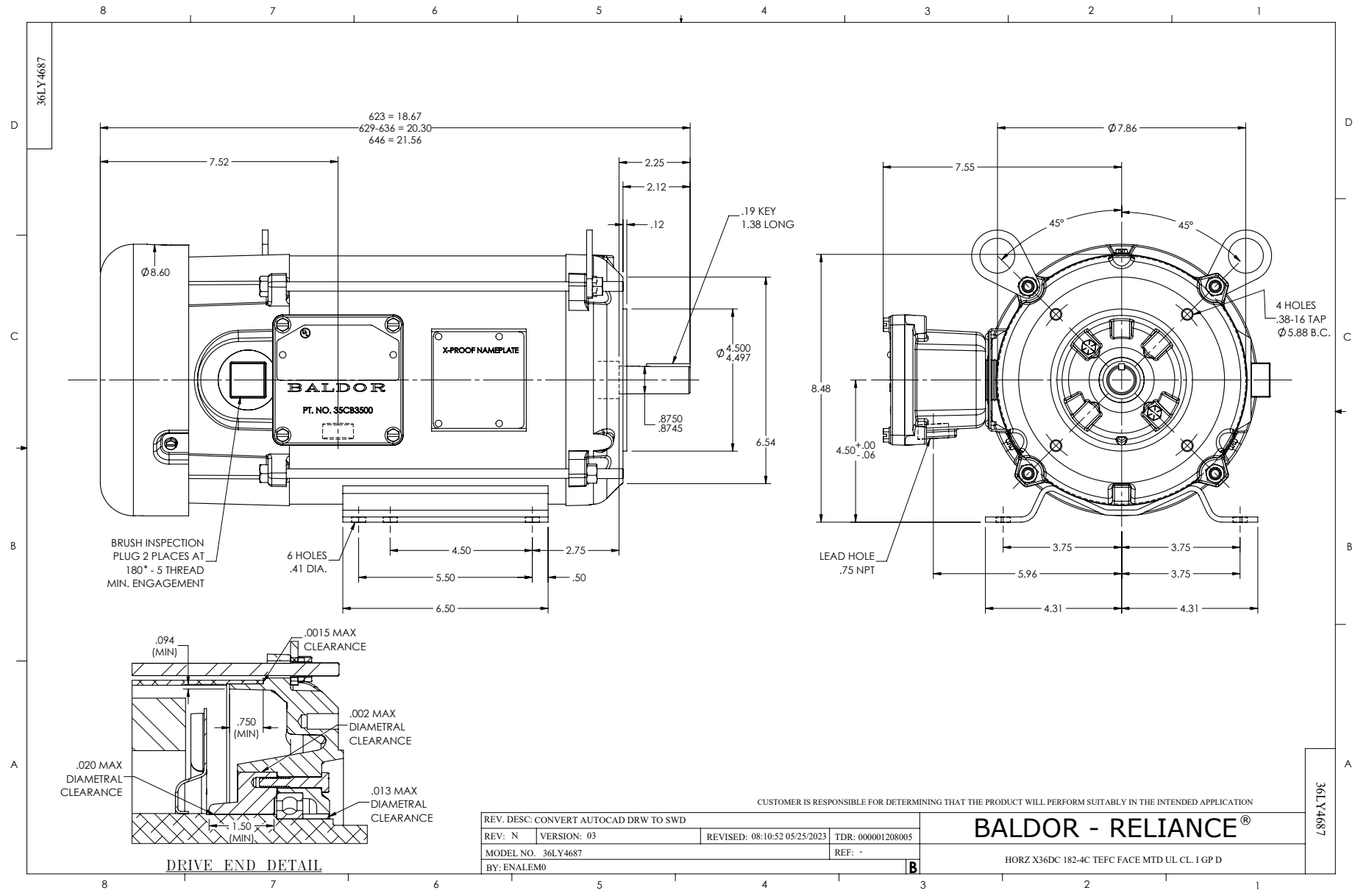
WINDING # 36WGZ106

1.5 HP DC 1750 RPM 180 V ARM 200/100 V FLD 3636D

ENCL: TEFC DUTY: CONT CL: F

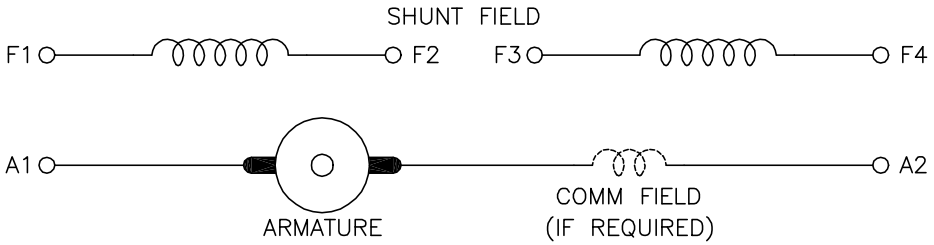
Typical performance - not guaranteed values.




36LY4687
623 = 18.67
629-636 = 20.30
646 = 21.56
7.52
2.25
2.12
.12
.19 KEY
1.38 LONG
Ø8.60
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
Ø4.500
4.497
.8750
.8745
6.54
BRUSH INSPECTION
PLUG 2 PLACES AT
180° - 5 THREAD
MIN. ENGAGEMENT
6 HOLES
.41 DIA.
4.50
2.75
5.50
.50
6.50
Ø7.86
7.55
45°
45°
4 HOLES
.38-16 TAP
Ø5.88 B.C.
8.48
4.50 +.00 -.06
LEAD HOLE
.75 NPT
3.75
3.75
5.96
3.75
4.31
4.31
.094
(MIN)
.0015 MAX
CLEARANCE
.750
(MIN)
.002 MAX
DIAMETRAL
CLEARANCE
.020 MAX
DIAMETRAL
CLEARANCE
.013 MAX
DIAMETRAL
CLEARANCE
1.50
(MIN)
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD
REV: N
VERSION: 03
REVISED: 08:10:52 05/25/2023
TDR: 000001208005
MODEL NO. 36LY4687
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ X36DC 182-4C TEFC FACE MTD UL CL. I GP D
36LY4687

CD0860C01

SHUNT WOUND



CONNECTION	DIRECTION OF ROTATION			
	CWDE		CCWDE	
	POS TERM (+)	NEG TERM (−)	POS TERM (+)	NEG TERM (−)
HIGH VOLTAGE	A1 F1 CONNECT F2 & F3	A2 F4	A2 F1 CONNECT F2 & F3	A1 F4
LOW VOLTAGE	A1 F1 & F3	A2 F2 & F4	A2 F1 & F3	A1 F2 & F4

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.

CD0860C01

REV. DESC: NEW, REPLACE CD0860			BALDOR ELECTRIC Co.
REV. LTR: –	BY: JLP	REVISED: 15:35:22 11/03/2004	TDR: 347796
10C0860CD		FILE: AAA00121477	REF: CD0860C01
		MTL: –	DC CONNECTION DIAGRAM, SHUNT FIELD, 6 LEAD, DUAL VOLTAGE