ABB BALDOR RELIANCE

Customer information packet

CDX1875

.75HP, 1750RPM, DC, 182CZ, X3623D, XPFC, F1
Class - CLI GP D; CLII GP F,G
Division -

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11/27/2026 12:42:30 AM

Specifications

Armature Voltage	90 V
Base Speed	1750 rpm
Enclosure	XPFC
Field Voltage	100 V
	50 V
Frame	182CZ
Frame Material	Steel
Haz Area Class and Group	CLI GP D; CLII GP F,G
Output Power	0.750 HP
Agency Approvals	CSA
	UL
	UR
Ambient Temperature	40 °C
Armature Current	7.0 a
Armature Inertia	19.385 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 @ 16 AWG
	4 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	18.61 IN
Product Family	Hazardous Location Motor

Part Detail

Revision	AW
Type	DC
Mech. spec.	36-5382
Base	
Status	PRD/A
Elec. spec.	36WGZ140
Layout	36LY5382
Eff. date	12-30-2024
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	0.625 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.	36-5382Z140				
CAT.NO.	CDX1875		**T. CODE**	T3B	
HP	.75		**ENCL**	XPFC	
RPM	1750				
FRAME	182CZ	**TYPE**	3623D		
ARM V	90	**ARM A**	7		
FLD V	100/50	**FLD A**	.55/1.1		
INSUL	A	**AMB.**	40		
DUTY	CONT	**SUPPLY**	K		
BRG/DE	BG6206	**BRG/ODE**	BG6205		
BRUSHES	2/BP5125A01				
BLANK					

DC Motor Performance Data
Record # 1408
Typical performance - not guaranteed values

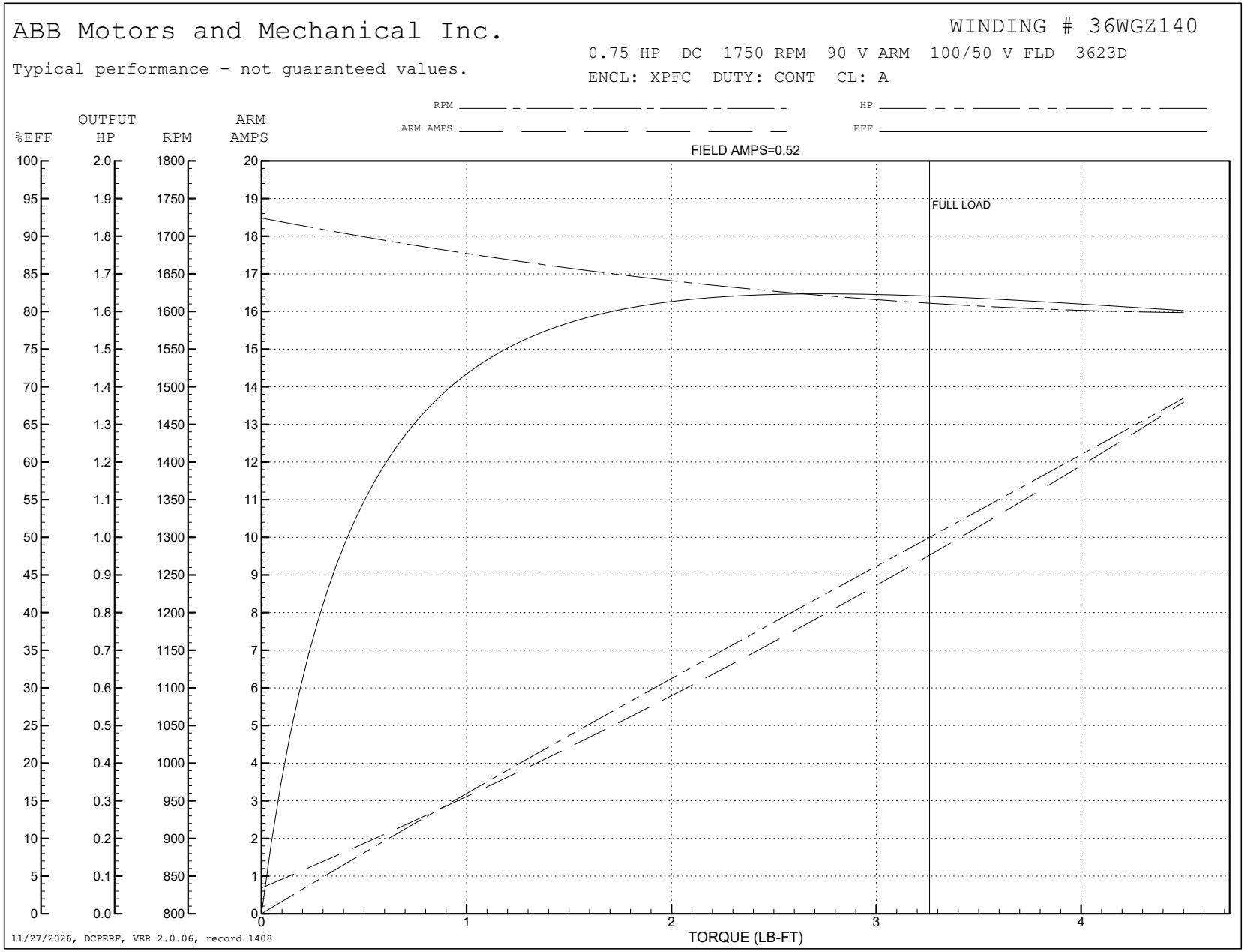
Winding: 36WGZ140-R001	**Type:** 3623D	**Enclosure:** XPFC

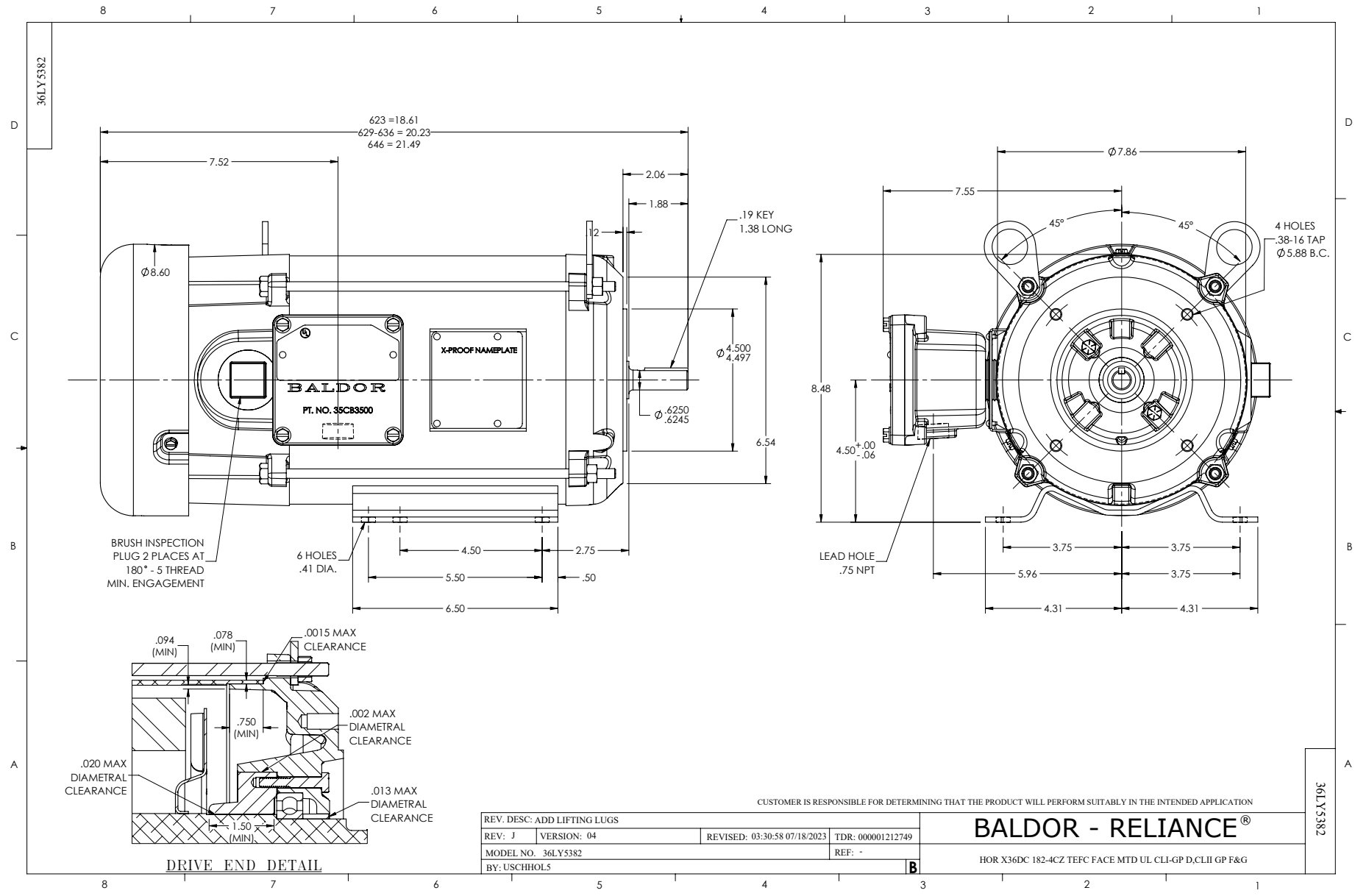
Nameplate Data	
Rated Output (HP)	0.75
R.P.M.	1750
Armature Volts	90
Armature Amps	7
Field Volts	100 / 50
Field Amps	0.55 / 1.1
Rating - Duty	40C AMB-CONT
Power Supply Code	K

General Characteristics	
Armature Resistance @ 25ºC	0.492 Ω
Commutating Winding Resistance @ 25ºC	0.2924 Ω
Shunt Winding Resistance @ 25ºC	190.87 Ω

Load Characteristics at 90 Armature Volts, 100 Field Volts, 0.52 Field Amps

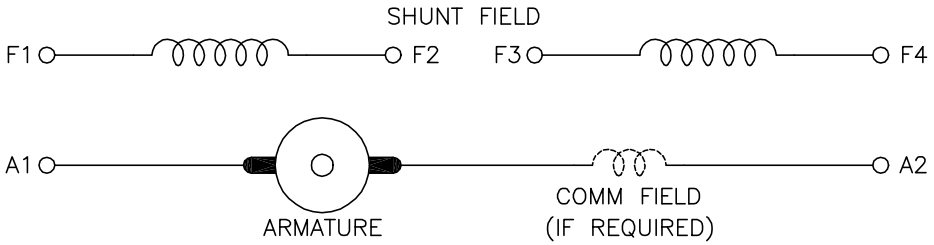
Load Point	1	2	3	4	5	6	7
Armature Amps	0.7	2.4	4.6	6.4	8.7	11.1	13.6
R.P.M.	1720	1694	1659	1631	1612	1606	1599
Torque (LB-FT)	0	0.75	1.5	2.25	3	3.75	4.5


ABB Motors and Mechanical Inc.
WINDING # 36WGZ140
Typical performance - not guaranteed values.
0.75 HP DC 1750 RPM 90 V ARM 100/50 V FLD 3623D
ENCL: XPFC DUTY: CONT CL: A
RPM
HP
ARM AMPS
EFF
%EFF
OUTPUT HP
RPM
ARM AMPS
FIELD AMPS=0.52
FULL LOAD
TORQUE (LB-FT)
11/27/2026, DCPERF, VER 2.0.06, record 1408


36LY5382
623 =18.61
629-636 = 20.23
646 = 21.49
7.52
2.06
1.88
.19 KEY
1.38 LONG
Ø8.60
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
Ø4.500
4.497
Ø.6250
.6245
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)
.078
(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: ADD LIFTING LUGS
REV: J
VERSION: 04
REVISED: 03:30:58 07/18/2023
TDR: 000001212749
MODEL NO. 36LY5382
REF: -
BY: USCHHOL5
B
BALDOR - RELIANCE®
HOR X36DC 182-4CZ TEFC FACE MTD UL CLI-GP D,CLII GP F&G
36LY5382

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
CD0860C01		FILE: AAA00121477	REF: CD0860C01
		MTL: –	DC CONNECTION DIAGRAM, SHUNT FIELD, 6 LEAD, DUAL VOLTAGE