ABB BALDOR RELIANCE

Customer information packet

CDPX3545

1HP, 1750RPM, DC, 56C, X3536P, XPFC, F1
Class - CLI GP D; CLII GP F,G
Division -

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11/14/2026 4:16:36 PM

Specifications

Armature Voltage	90 V
Base Speed	1750 rpm
Enclosure	XPFC
Frame	56C
Frame Material	Steel
Haz Area Class and Group	CLI GP D; CLII GP F,G
Output Power	1.000 HP
Agency Approvals	CSA
	UL
	UR
Ambient Temperature	40 °C
Armature Current	9.6 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
Haz Area Temp Code	T3C
Heater Indicator	No Heater
Lifting Lugs	No Lifting Lugs
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	2 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	18.36 IN
Product Family	Hazardous Location Motor
Pulley End Bearing Type	Sealed Bearing
Service Factor	1.00
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End

Part Detail

Revision	AH
Type	DC
Mech. spec.	35P565
Base	
Status	PRD/A
Elec. spec.	35WGZ235
Layout	35LYP565
Eff. date	06-18-2026
CD Diagram	CD0194
Poles	00
Leads	
Proprietary	False
Created date	01-01-0001

Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger

Nameplate

NP0727XPSL					
NO.					
SER.					
SPEC.	35P565Z235G1				
CAT.NO.	CDPX3545		**T. CODE**		T3C
HP	1		**ENCL**	XPFC	
RPM	1750				
FRAME	56C	**TYPE**	3536P		
ARM V	90		**ARM A**	9.6	
FLD V			**FLD A**		
INSUL	F	**AMB.**	40		
DUTY	CONT	**SUPPLY**	K		
BRG/DE	6205	**BRG/ODE**	6203		
BRUSHES	2/BP5035C01				
BLANK					

DC Motor Performance Data
Record # 1414
Typical performance - not guaranteed values

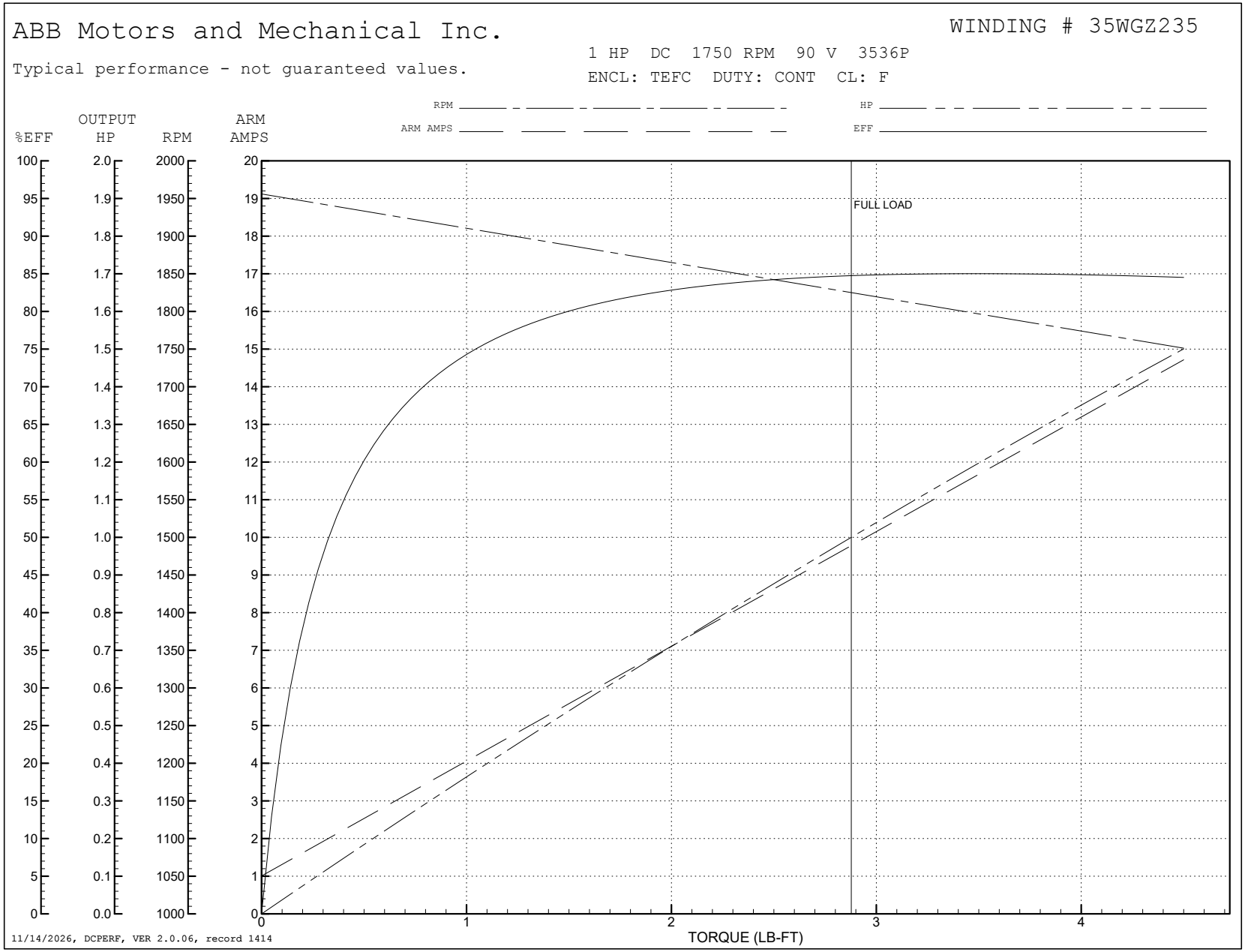
Winding: 35WGZ235-R011	**Type:** 3536P	**Enclosure:** TEFC

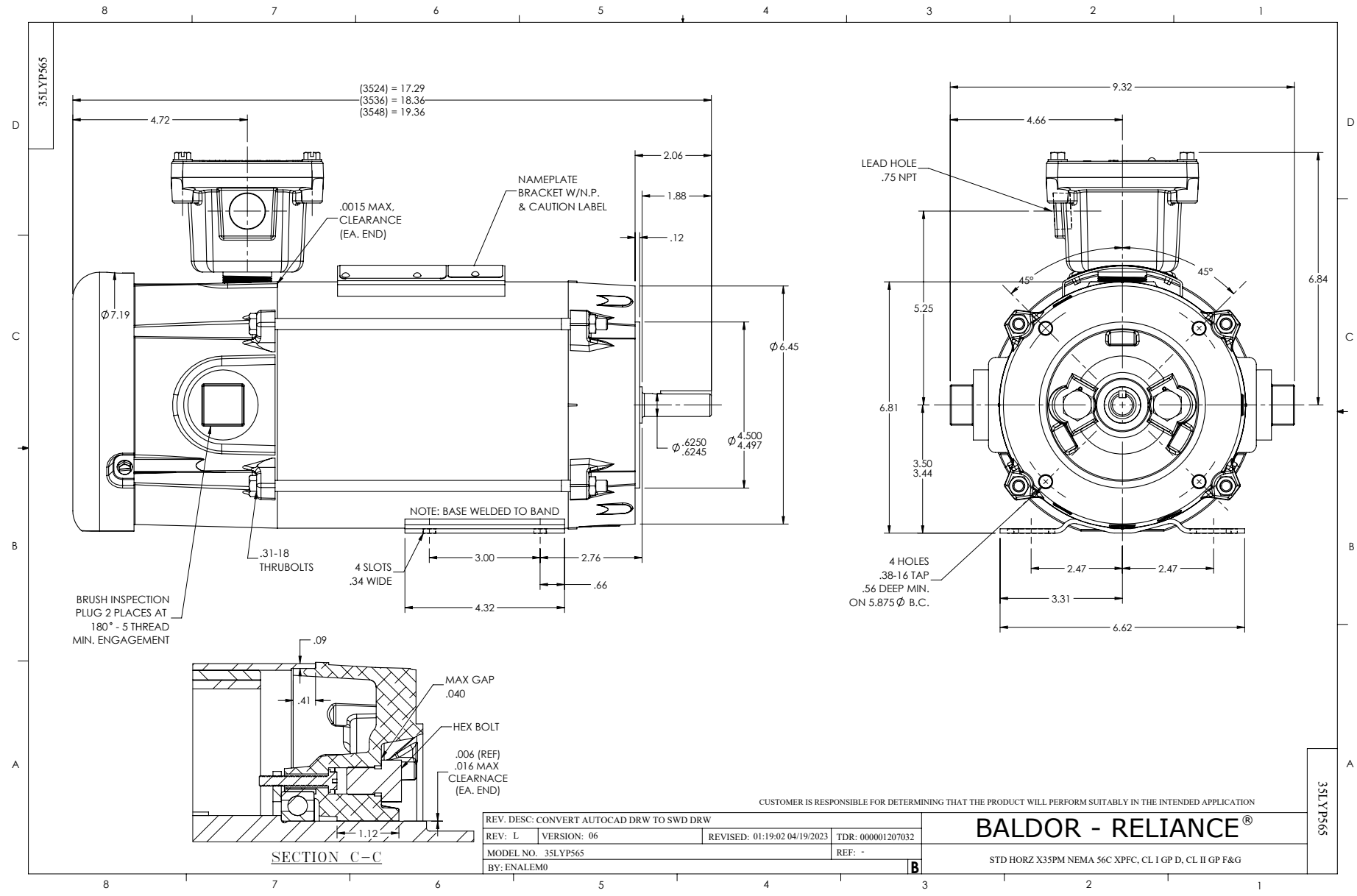
Nameplate Data	
Rated Output (HP)	1
R.P.M.	1750
Armature Volts	90
Armature Amps	9.6
Field Volts	
Field Amps	
Rating - Duty	40C AMB-CONT
Power Supply Code	K

General Characteristics	
Armature Resistance @ 25ºC	0.245 Ω
Voltage Constant	50.01 v/krpm
Armature Inductance	3.789 mH
Armature Inertia	30.3419 LI²

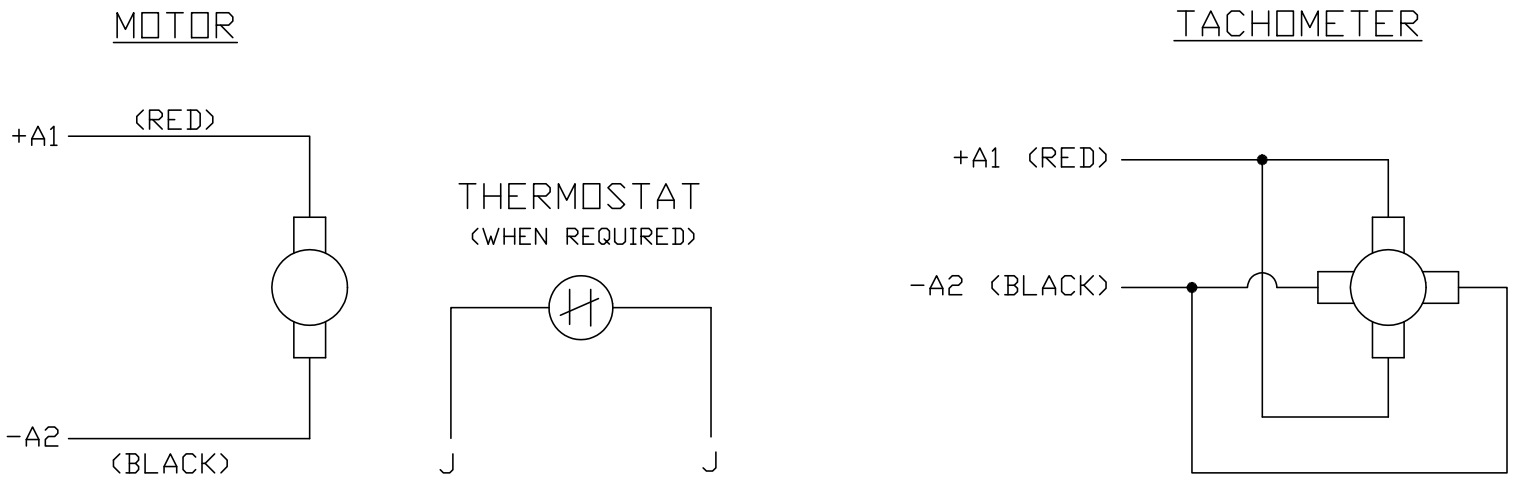
Load Characteristics at 90 Armature Volts

Load Point	**1**	**2**	**3**	**4**	**5**	**6**	**7**
Armature Amps	1	3.3	4.5	8	10.1	12.3	14.8
R.P.M.	1930	1926	1919	1865	1850	1756	1745
Torque (LB-FT)	0	0.75	1.15	2.25	3	3.75	4.5


ABB Motors and Mechanical Inc.
WINDING # 35WGZ235
Typical performance - not guaranteed values.
1 HP DC 1750 RPM 90 V 3536P
ENCL: TEFC DUTY: CONT CL: F
RPM
ARM AMPS
HP
EFF
%EFF
OUTPUT HP
RPM
ARM AMPS
FULL LOAD
TORQUE (LB-FT)
11/14/2026, DCPERF, VER 2.0.06, record 1414


35LYP565
(3524) = 17.29
(3536) = 18.36
(3548) = 19.36
4.72
2.06
1.88
.12
.0015 MAX, CLEARANCE (EA. END)
NAMEPLATE BRACKET W/N.P. & CAUTION LABEL
Ø7.19
Ø6.45
Ø.6250 .6245
Ø4.500 4.497
NOTE: BASE WELDED TO BAND
.31-18 THRUBOLTS
4 SLOTS .34 WIDE
3.00
2.76
.66
4.32
BRUSH INSPECTION PLUG 2 PLACES AT 180° - 5 THREAD MIN. ENGAGEMENT
9.32
4.66
LEAD HOLE .75 NPT
45°
45°
6.84
5.25
6.81
3.50 3.44
4 HOLES .38-16 TAP .56 DEEP MIN. ON 5.875Ø B.C.
2.47
2.47
3.31
6.62
.09
.41
MAX GAP .040
HEX BOLT
.006 (REF) .016 MAX CLEARNACE (EA. END)
1.12
SECTION C–C
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: L
VERSION: 06
REVISED: 01:19:02 04/19/2023
TDR: 000001207032
MODEL NO. 35LYP565
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD HORZ X35PM NEMA 56C XPFC, CL I GP D, CL II GP F&G
35LYP565

CD0194



NOTES:

1. CCW ROTATION AS SHOWN FACING COMMUTATOR END. TO REVERSE MOTOR ROTATION OR TACHOMETER OUTPUT POLARITY INTERCHANGE LEADS A1(RED) & A2(BLACK)

2. LEAD COLORS FOR REFERENCE ONLY & NOT SPECIFIED BY THIS DRAWING. LEAD COLORS SPECIFIED BY LAYOUT DRAWING & BILL OF MATERIAL ONLY.

CD0194

MATL: –				BALDOR ELECTRIC Co.
REV: E	ADDED NOTE "LEAD COLORS FOR REFERENCE ONLY &....			
CD0194	SCALE: –	BY: CK	REVISED: 07/28/95	CD TYPE P DC PERMANENT MAGNET MOTORS AND TACHOMETERS
	FILE: AAA00004503		TDR: 0078737	