ABB BALDOR RELIANCE

Customer information packet

CDPSWD3545

1HP, 1750RPM, DC, 56C, 3536P, TEFC, F1
Class - None
Division -

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Specifications

Armature Voltage	90 V
Base Speed	1750 rpm
Enclosure	TEFC
Frame	56C
Frame Material	Stainless Steel
Haz Area Class and Group	None
Output Power	1.000 HP
Agency Approvals	CSA
	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
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	16.30 IN
Product Family	Wash Down Paint Free
Pulley End Bearing Type	Sealed Bearing
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding

Part Detail

Revision	W
Type	DC
Mech. spec.	35P634
Base	
Status	PRD/A
Elec. spec.	35WGZ235
Layout	35LYP634
Eff. date	04-13-2023
CD Diagram	CD0194
Poles	00
Leads	
Proprietary	False
Created date	01-01-0001

Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger

Nameplate

NP1502			
CAT.NO.	CDPSWD3545		
SPEC.	35P634Z235G1		
HP	1	**ENCL**	TEFC
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**	6205
BRUSHES	2/BP5000T15		
		BLANK	
SER.			
BLANK			
APRV-CSA	**APRV-UL**		

DC Motor Performance Data
Record # 390
Typical performance - not guaranteed values

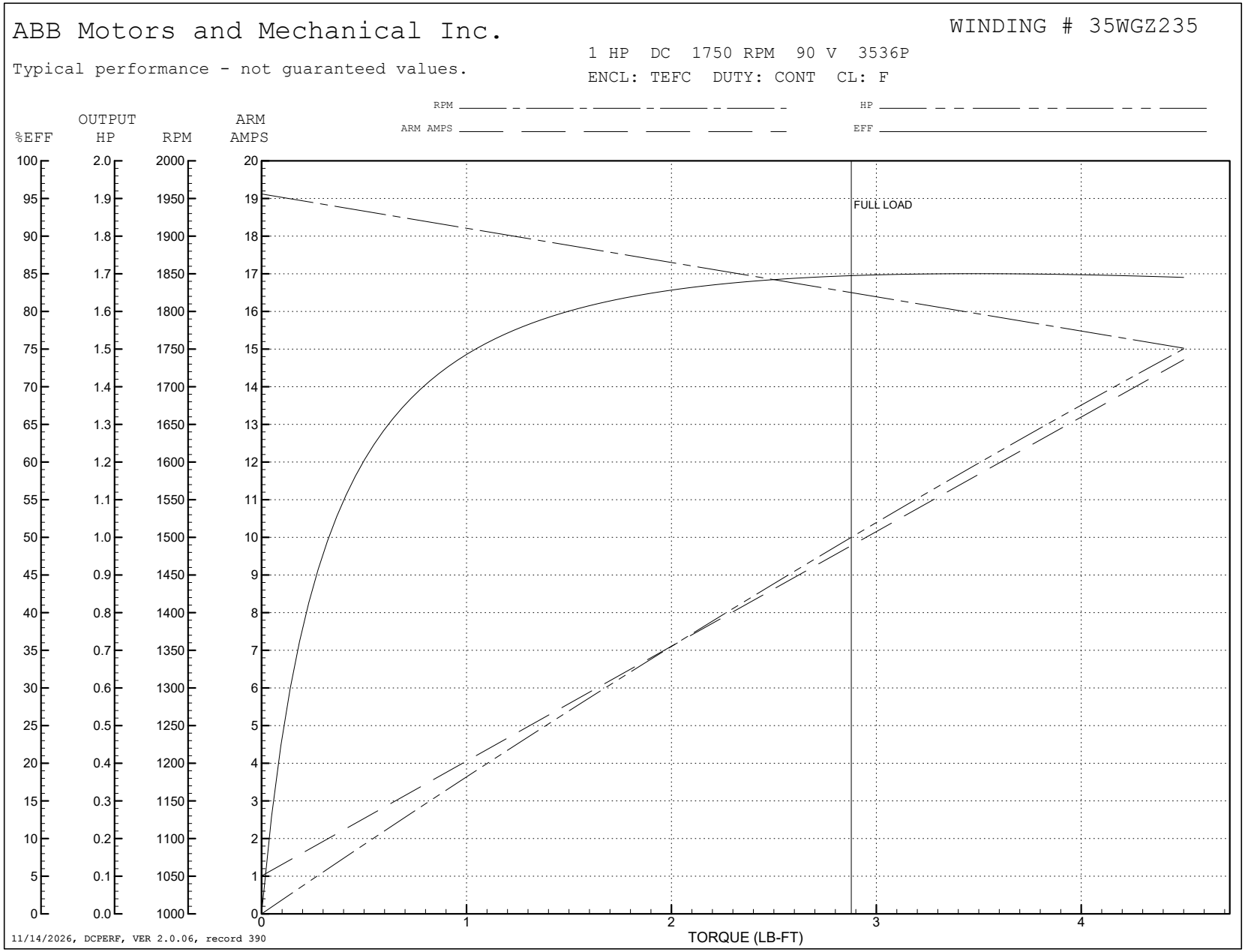
Winding: 35WGZ235-R003	**Type:** 3536P	**Enclosure:** TEFC

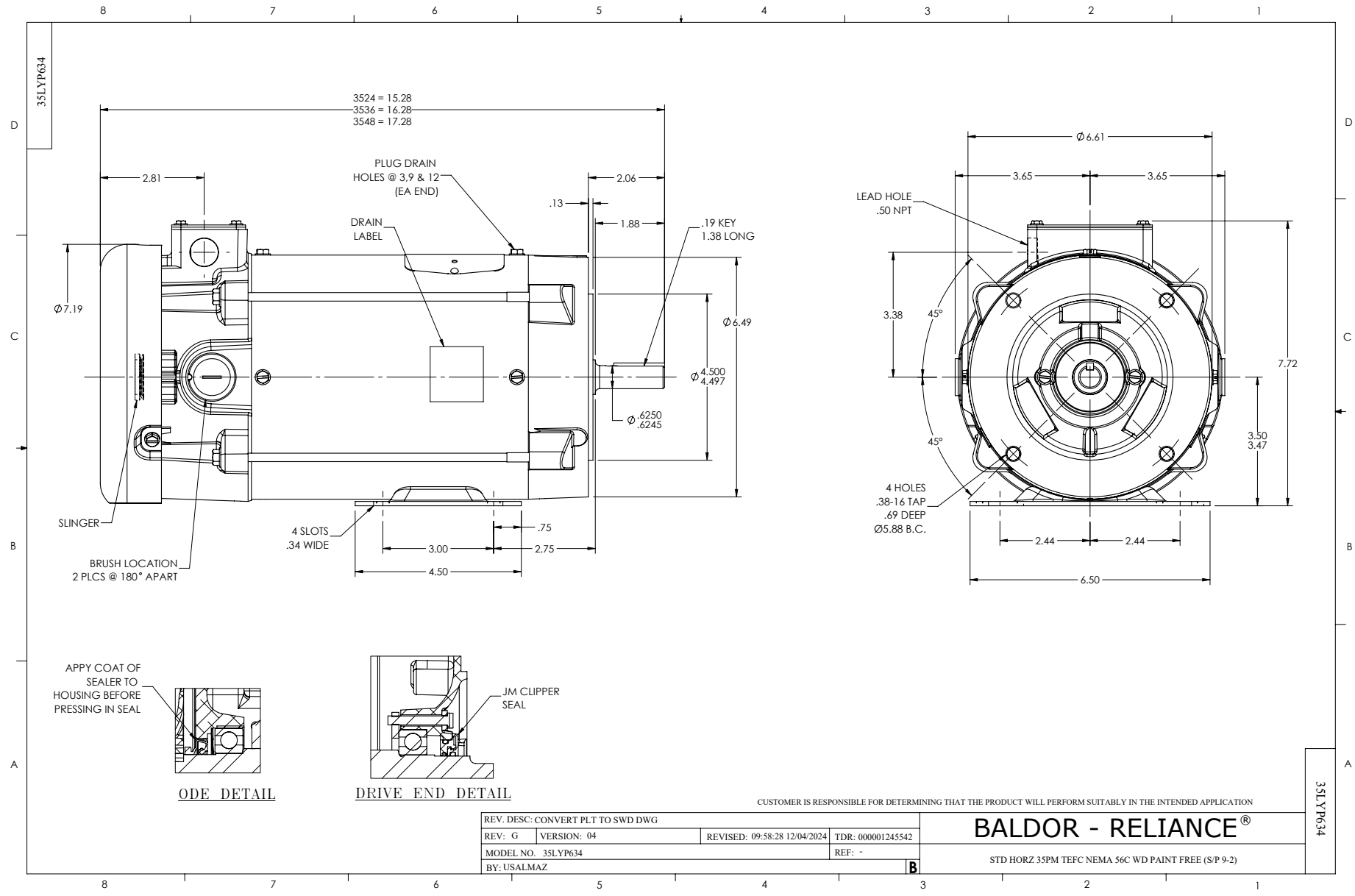
Nameplate Data	
Rated Output (HP)	1
R.P.M.	1750
Armature Volts	90
Armature Amps	9.6
Field Volts	
Field Amps	
Rating - Duty	40C AMB-CONT
Power Supply Code	K

General Characteristics	
Armature Resistance @ 25ºC	0.245 Ω
Armature Inductance	3.789 mH

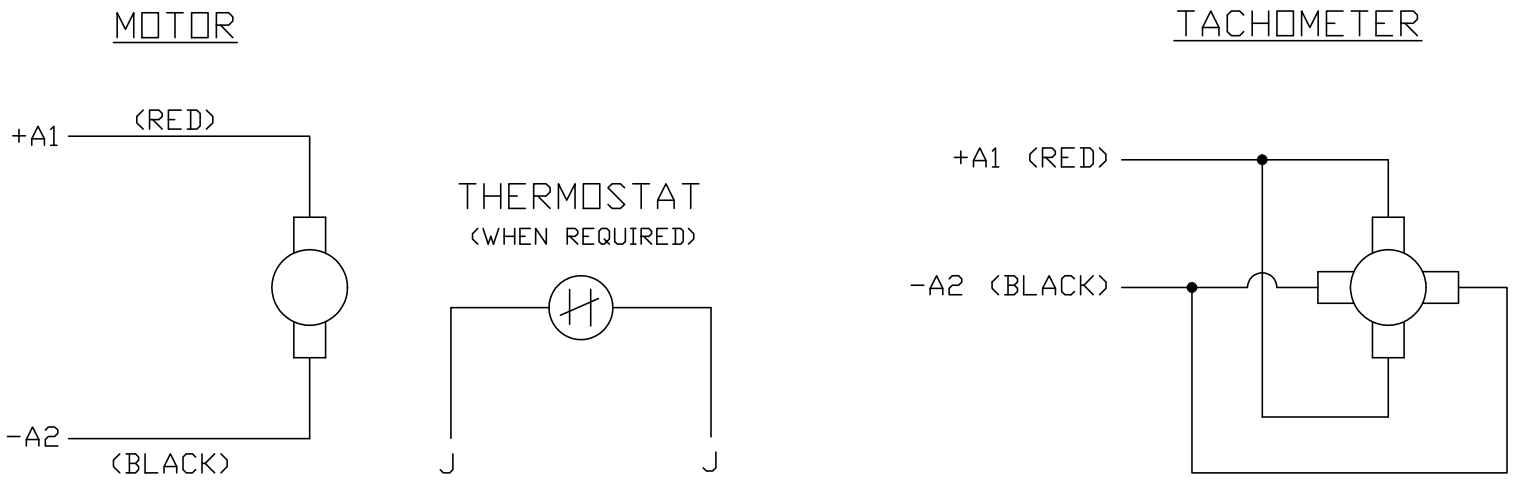
Load Characteristics at 90 Armature Volts

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 390


35LYP634
3524 = 15.28
3536 = 16.28
3548 = 17.28
2.81
PLUG DRAIN HOLES @ 3,9 & 12 (EA END)
2.06
.13
1.88
.19 KEY 1.38 LONG
DRAIN LABEL
Ø7.19
Ø6.49
Ø4.500 4.497
Ø.6250 .6245
SLINGER
BRUSH LOCATION 2 PLCS @ 180° APART
4 SLOTS .34 WIDE
.75
3.00
2.75
4.50
Ø6.61
3.65
3.65
LEAD HOLE .50 NPT
3.38
45°
7.72
3.50 3.47
4 HOLES .38-16 TAP .69 DEEP Ø5.88 B.C.
2.44
2.44
6.50
APPY COAT OF SEALER TO HOUSING BEFORE PRESSING IN SEAL
JM CLIPPER SEAL
ODE DETAIL
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT PLT TO SWD DWG
REV: G
VERSION: 04
REVISED: 09:58:28 12/04/2024
TDR: 000001245542
MODEL NO. 35LYP634
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
STD HORZ 35PM TEFC NEMA 56C WD PAINT FREE (S/P 9-2)
35LYP634

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	