

ABB BALDOR RELIANCE III

Customer information packet

CDPSWD3545

1HP, 1750RPM, DC, 56C, 3536P, TEFC, F1

Class - None

Division -

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-ft ²
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		

Parts List

Part number	Description	Quantity
SA018057	SA 35P634Z235G1	1.000 ea
AA003828	AA 35P634Z235G1	1.000 ea
BP5000T15	CARBON BRUSH-35P,180VOLTS	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B02	BRASS CUP WASHER W/GROUND SYMBOL TAB,	1.000 ea
35EP3110A25U	PU ENDPLATE, MACH FOR PAINT FREE S/P#9-2	1.000 ea
HW4600B49	SEAL 0.938 X 1.624 X 0.250 SINGLE LIP DB	1.000 ea
HW4600B46	V-RING SLINGER 0.875 X 1.420 X .24 VITON	1.000 ea
BP5201A18	BRUSH HOLDER - WITHOUT CAP & CONN.	2.000 ea
BP4543A01	BRUSH HOLDER CAP, AE-74-SO W/'O'RING	2.000 ea
BP3000A01	LEAD LEFT CLIP,33-A (PHOENIX)	2.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
35EP3301A10U	PU ENDPLATE, MACH FOR PAINT FREE S/P#9-4	1.000 ea
HW4606A02	JM CLIPPER/SEAL (LWE-0938-1624-AL23)	1.000 ea
12XN1032S20	10-32 X 1-1/4 HEX M.S. , STAINLESS STEEL	2.000 ea
HA1049A01	DUBO LOK WASHER SIZE 10 (NYLON LOCK SEAL	2.000 ea
11XW1032S06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	3.000 ea
80XN1032J03	10-32 X 3/16 SET SCREW, HEX SOC, CUP PT	2.000 ea
35FN3002A05SP	EXFN, PLASTIC, 6.376 OD, .638 ID	1.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
35FH4005A39	IEC FH NO GREASER DEBURR/CLEAN - SS	1.000 ea
11XW1032S06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	3.000 ea
11XW1032S06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	3.000 ea
WD4102A01	SR-6L-1 HEYCO STRN RELIEF OR 23MPO6L10 M	1.000 ea
WD4100A17	PLUG STIMPSON D4036	1.000 ea
35CB4506A02	CONDUIT BOX LID, STAMPED #304 SS FINISH	1.000 ea
35GS1010A01	GASKET, CONDUIT BOX LID TDR 11640	1.000 ea
59XW0832S07	TAPTITE II,HEX WSHR UNSLTD SER,410 S.S.,	2.000 ea
HW2502D13	SS KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 ea
LB1164	LABEL,WARNING AND DRAIN	1.000 ea

MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MJ5001A23	P.D. GEORGE B-276 AIR DRY VARNISH	0.001 ga
MJ5001A02	732 CL SEALANT 3 OZ DIXIE BEARING 289100	0.001 ea
MJ5004A05	#242-21 LOCTITE GENERAL PURPOSE MED. STR	0.001 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
HA3101S46	THRUBOLT 1/4-20 X 10.00	4.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LC0194	CONNECTION LABEL	1.000 ea
NP1502	WASHDOWN NP "DC MOTORS" UL CSA	1.000 ea
35PA1007	PKG GRP, PRINT PK1034A07	1.000 ea

DC Motor Performance Data

Record # 390

Typical performance - not guaranteed values

Winding: 35WGZ235-R003		Type: 3536P	Enclosure: TEFC
Nameplate Data		General Characteristics	
Rated Output (HP)	1	Armature Resistance @ 25°C	0.245 Ω
R.P.M.	1750		
Armature Volts	90		
Armature Amps	9.6		
Field Volts		Armature Inductance	3.789 mH
Field Amps			
Rating - Duty	40C AMB-CONT		
Power Supply Code	K		

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

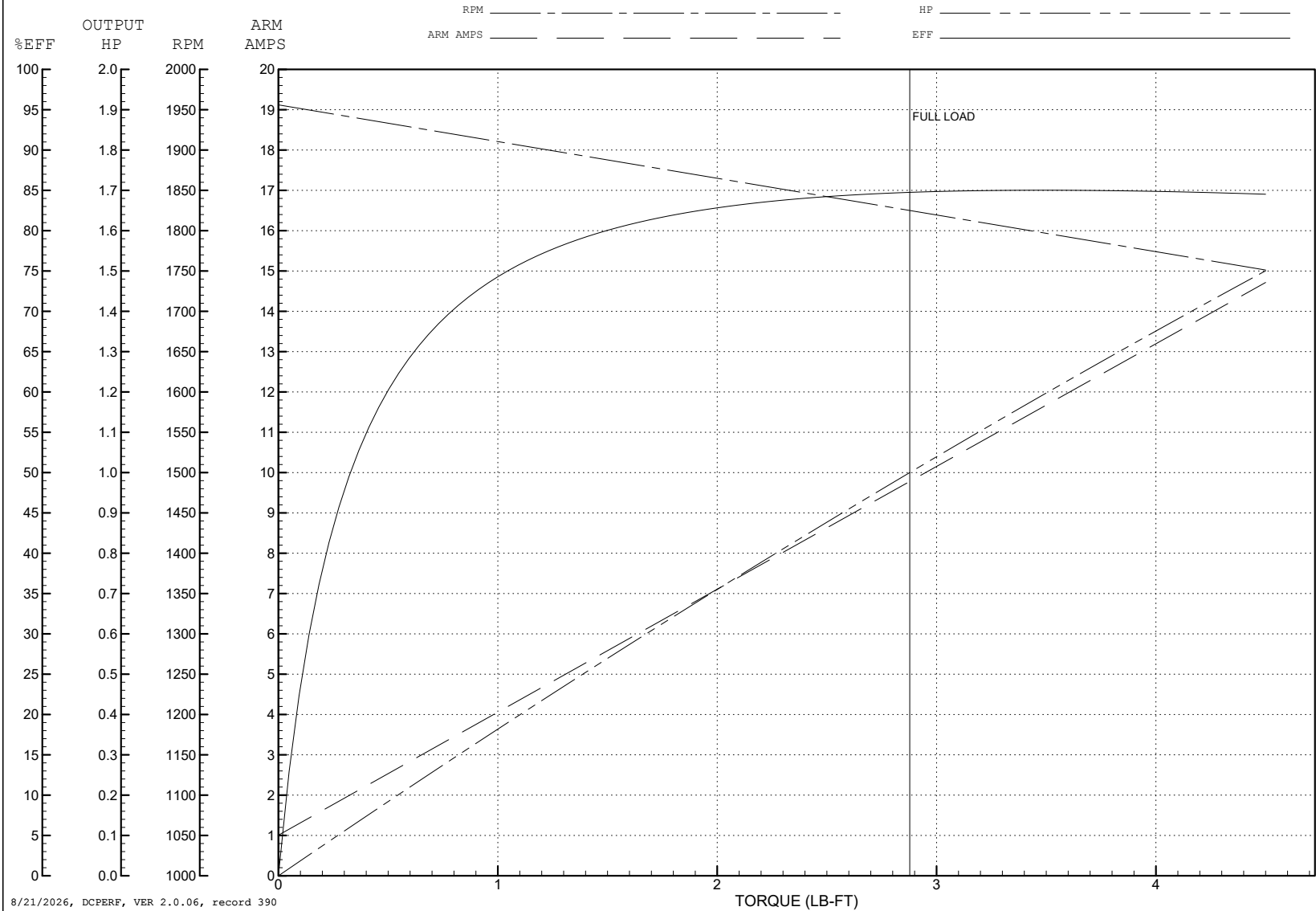
ABB Motors and Mechanical Inc.

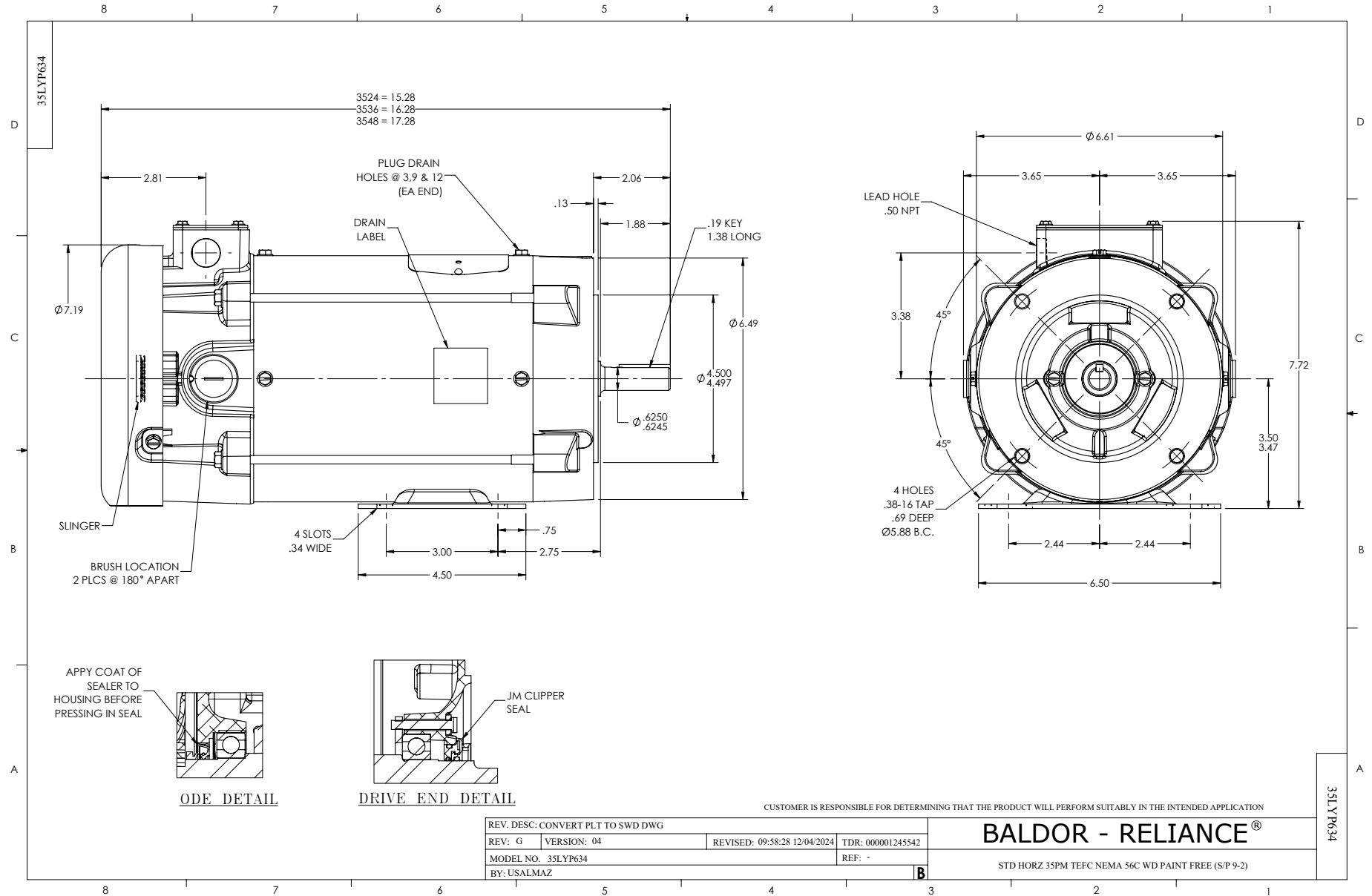
WINDING # 35WGZ235

Typical performance - not guaranteed values.

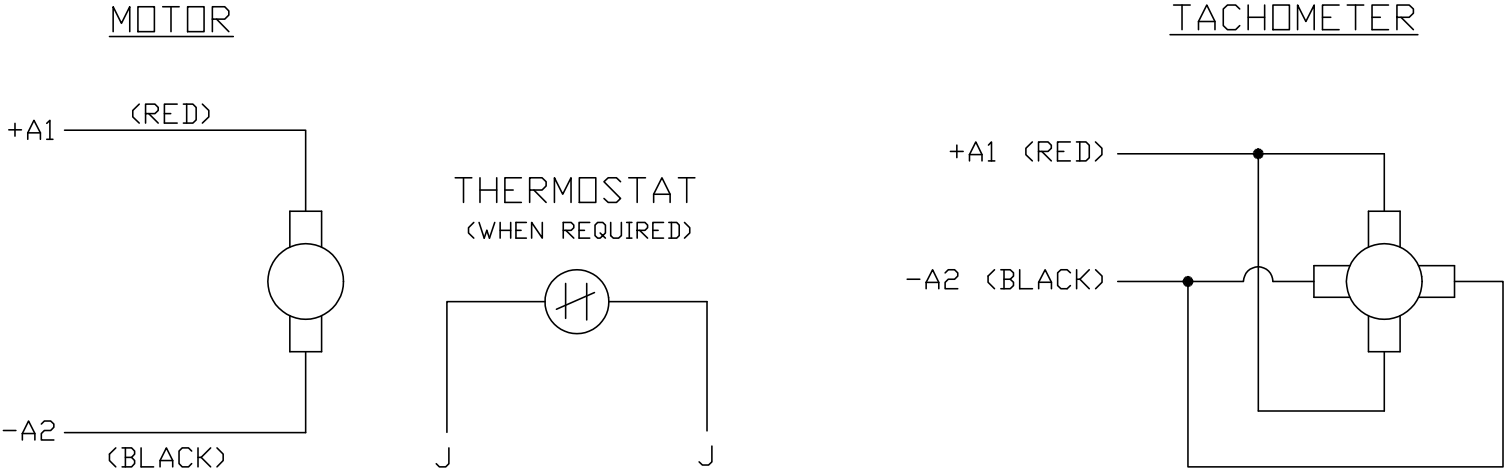
1 HP DC 1750 RPM 90 V 3536P

ENCL: TEFC DUTY: CONT CL: F





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.

MATL: -			
REV:	E	ADDED NOTE "LEAD COLORS FOR REFERENCE ONLY &..."	
CD0194		SCALE: -	BY: CK
		FILE: AAA00004503	TDR: 0078737

BALDOR ELECTRIC Co.

CD TYPE P DC PERMANENT MAGNET MOTORS AND TACHOMETERS

CD0194