

ABB BALDOR RELIANCE III

Customer information packet

CDPSWD3426

.5HP, 1750RPM, DC, 56C, 3428P, TEFC, F1

Class - None

Division -

Specifications

Armature Voltage	180 V
Base Speed	1750 rpm
Enclosure	TEFC
Frame	56C
Frame Material	Stainless Steel
Haz Area Class and Group	None
Output Power	0.500 HP
Agency Approvals	CSA UR
Ambient Temperature	40 °C
Armature Current	2.5 a
Armature Inertia	10.926 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	13.66 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	AF
Type	DC
Mech. spec.	34-6694
Base	
Status	PRD/A
Elec. spec.	34WG3946
Layout	34LY6694
Eff. date	08-13-2026
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.	CDPSWD3426		
SPEC.	34-6694-3946G1		
HP	.5	ENCL	TEFC
RPM	1750		
FRAME	56C	TYPE	3428P
ARM V	180	ARM A	2.5
FLD V		FLD A	
INSUL	F	AMB.	40
DUTY	CONT	SUPPLY	1.5
BRG/DE	6203	BRG/ODE	6203
BRUSHES	2/BP5000AW14		
	BLANK		
SER.			
BLANK			
APRV-CSA	APRV-UL		

Parts List

Part number	Description	Quantity
SA018055	SA 34-6694-3946G1	1.000 ea
AA003826	AA 34-6694-3946G1	1.000 ea
BP5000AW14SP	CARBON BRUSH - 33P, 180 VOLTS	1.000 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
HW4600B39SP	V-RING SLINGER 0.550 X 0.790 X .18 VITON	1.000 ea
HW4600A54	SEAL 0.668 X 1.064 X 0.250 DOUBLE SHIELD	1.000 ea
11XW1032S06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	3.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
HA1049A01	DUBO LOK WASHER SIZE 10 (NYLON LOCK SEAL	2.000 ea
12XN1032S22	10-32 X 1 3/8 SLOT HEX, STAINLESS STEEL	2.000 ea
HW4606A01	JM CLIPPER/SEAL (WDE-0667-1064-BH49)	1.000 ea
11XW1032S06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	3.000 ea
BP5201A17	BRUSH HOLDER - WITHOUT CAP & CONN.	2.000 ea
80XN1032J03	10-32 X 3/16 SET SCREW, HEX SOC, CUP PT	2.000 ea
34FN3002A01SP	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 ea
34FH4002A08	FAN COVER, #304 SS #4 FINISH (NUPAR	1.000 ea
11XW1032S06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	3.000 ea
34CB4504A04	CB LID, STAMPED,#304 SS #4 FINISH	1.000 ea
34GS1011A03	GASKET, CONDUIT BOX LID (.062 WHITE)	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
BP4543A01	BRUSH HOLDER CAP, AE-74-SO W/'O'RING	2.000 ea
BP3000A01	LEAD LEFT CLIP,33-A (PHOENIX)	2.000 ea
HA5027A01	HA4066A01 T-DRAIN X2 BAGGED	1.000 ea
WD4100A109	PLUG STIMPSON D3550	1.000 ea
34EP3103B64U	ENDPLATE, FOR PAINT FREE WASHDOWN	1.000 ea
34EP3300A53U	ENDPLATE, FOR PAINT FREE WASHDOWN	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.001 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
WD4102A01	SR-6L-1 HEYCO STRN RELIEF OR 23MPO6L10 M	1.000 ea
ML14A1B14	14 AWG,A1,BLACK	8.500 in
ML14A2B14	14 AWG,A2,BLACK	8.500 in
HA3100S12	THRUBOLT 7.625 LENGTH 1.250 TH LENGTH SS	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
35PA1066	PKG GRP, PRINT PK1008A07	1.000 ea

DC Motor Performance Data

Record # 1433

Typical performance - not guaranteed values

Winding: 34WG3946-R006		Type: 3428P	Enclosure: TEFC
Nameplate Data		General Characteristics	
Rated Output (HP)	0.5	Armature Resistance @ 25°C	2.728 Ω
R.P.M.	1750		
Armature Volts	180		
Armature Amps	2.5		
Field Volts		Armature Inductance	27.3166 mH
Field Amps			
Rating - Duty	40C AMB-CONT		
Form Factor	1.5		

Load Characteristics at 180 Armature Volts

Load Point	1	2	3	4	5	6	7
Armature Amps	0.16	5.66	7.36	9.76	12.96	15.36	17.76
R.P.M.	1985	1750	1678	1576	1439	1337	1234
Torque (LB-FT)	0	3.44	4.5	6	8	9.5	11

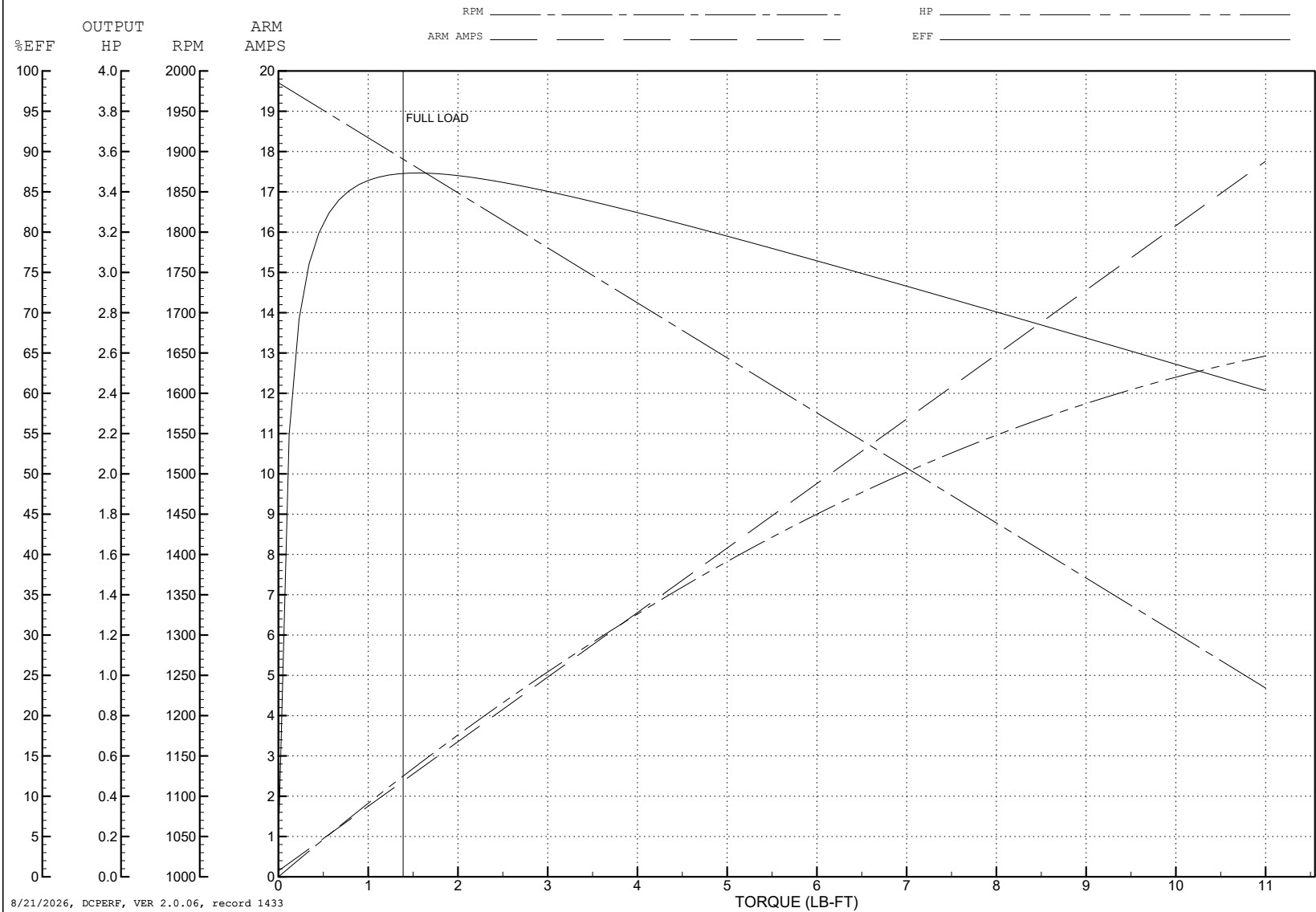
ABB Motors and Mechanical Inc.

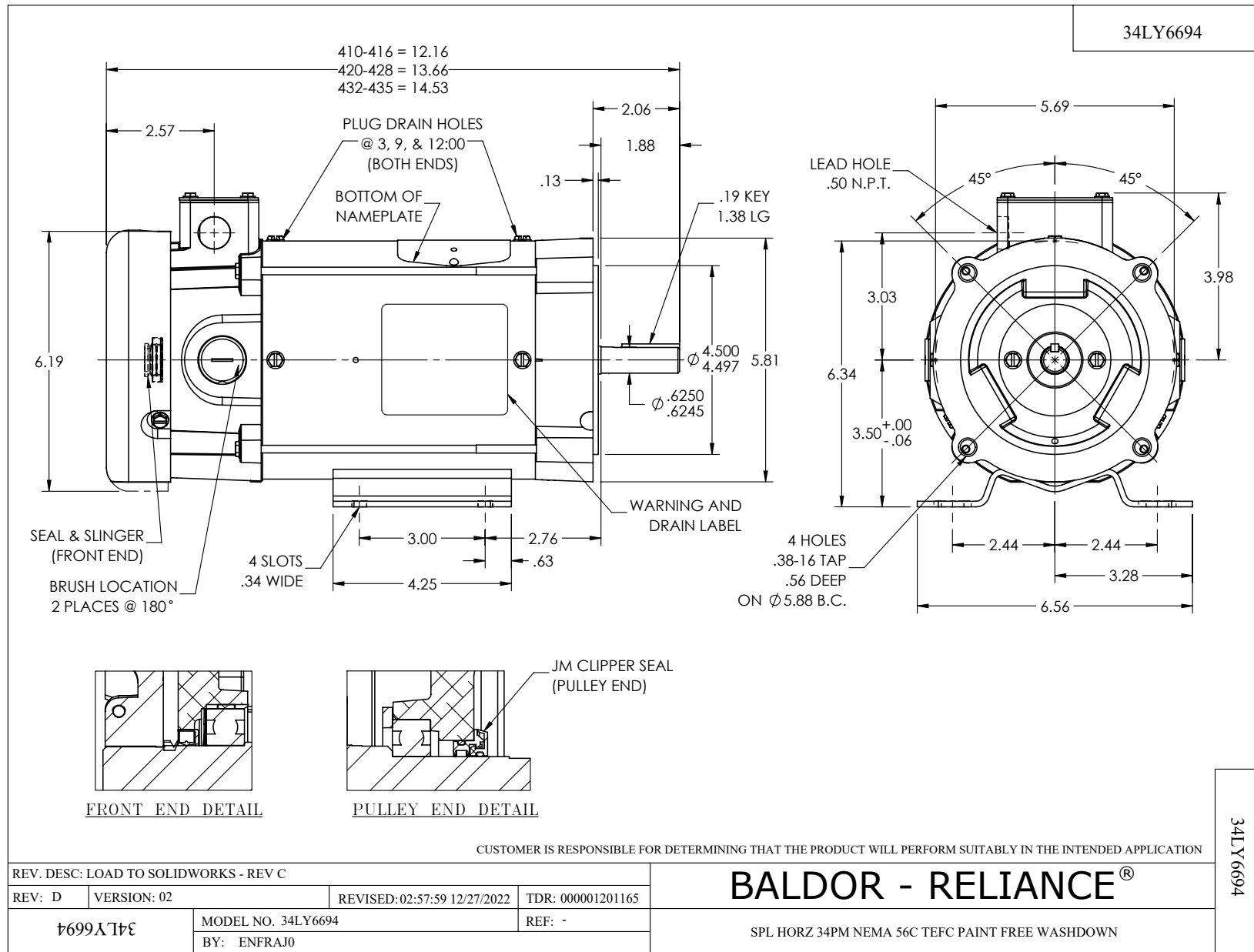
WINDING # 34WG3946

Typical performance - not guaranteed values.

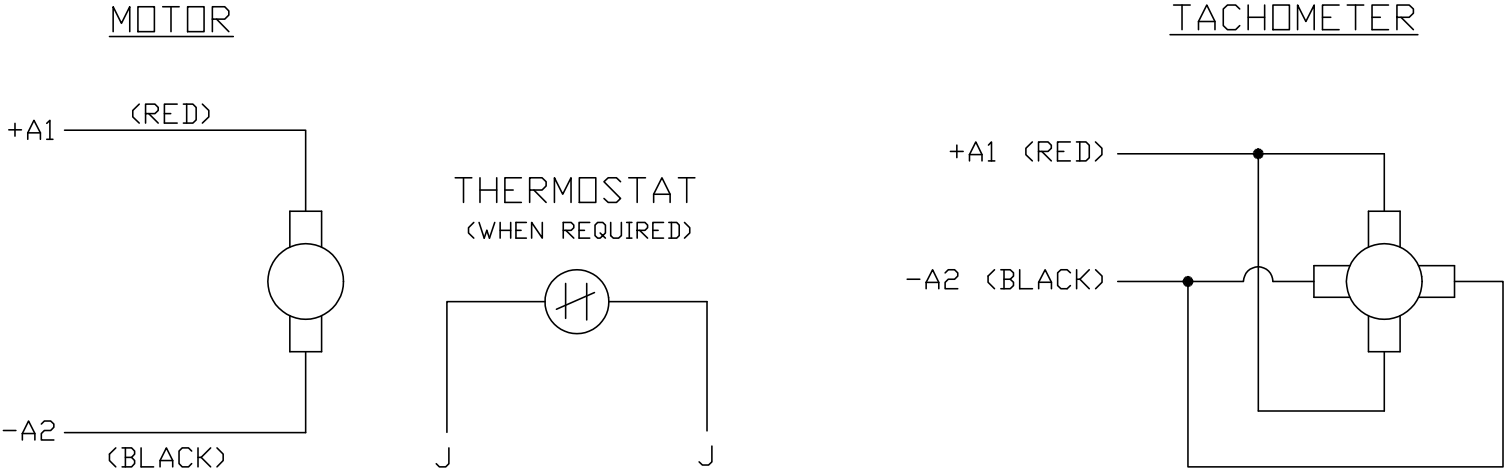
0.5 HP DC 1750 RPM 180 V 3428P

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