

ABB BALDOR RELIANCE III

Customer information packet

CDPSWD3430

.5HP, 1750RPM, DC, 56C, 3428P, 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	0.500 HP
Agency Approvals	CSA
	UR
Ambient Temperature	40 °C
Armature Current	5.2 a
Armature Inertia	10.926 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	13.66 IN
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
Shaft Rotation	Reversible

Part Detail

Revision	AH
Type	DC
Mech. spec.	34-6694
Base	
Status	PRD/A
Elec. spec.	34WG3662
Layout	34LY6694
Eff. date	08-13-2026
CD Diagram	CD0194
Poles	00
Leads	
Proprietary	False
Created date	01-01-0001

Shaft Slinger Indicator

Shaft Slinger

Nameplate

NP1502			
CAT.NO.	CDPSWD3430		
SPEC.	34-6694-3662G1		
HP	.5	ENCL	TEFC
RPM	1750		
FRAME	56C	TYPE	3428P
ARM V	90	ARM A	5.2
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		

DC Motor Performance Data

Record # 1426

Typical performance - not guaranteed values

Winding: 34WG3662-R006		Type: 3428P	Enclosure: TEFC
Nameplate Data		General Characteristics	
Rated Output (HP)	0.5	Armature Resistance @ 25°C	0.7601 Ω
R.P.M.	1750		
Armature Volts	90		
Armature Amps	5.2		
Field Volts			
Field Amps			
Rating - Duty	40C AMB-CONT		
Form Factor	1.5		

Load Characteristics at 90 Armature Volts

Load Point	1	2	3	4	5	6	7
Armature Amps	0.45	1.65	2.79	4.33	5.12	6.28	7.45
R.P.M.	1907	1902	1847	1829	1814	1783	1745
Torque (LB-FT)	0	0.375	0.75	1.125	1.5	1.875	2.25

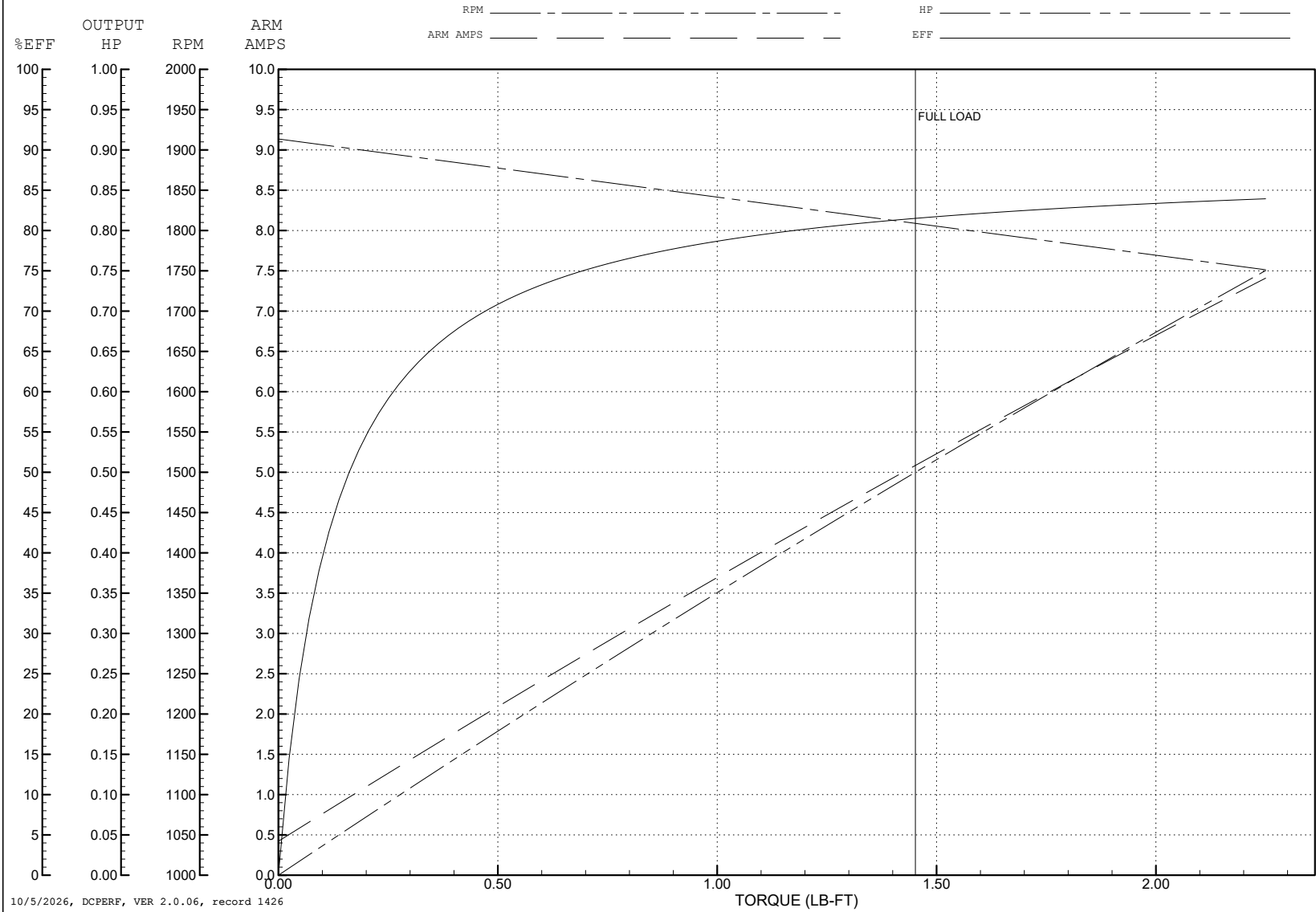
ABB Motors and Mechanical Inc.

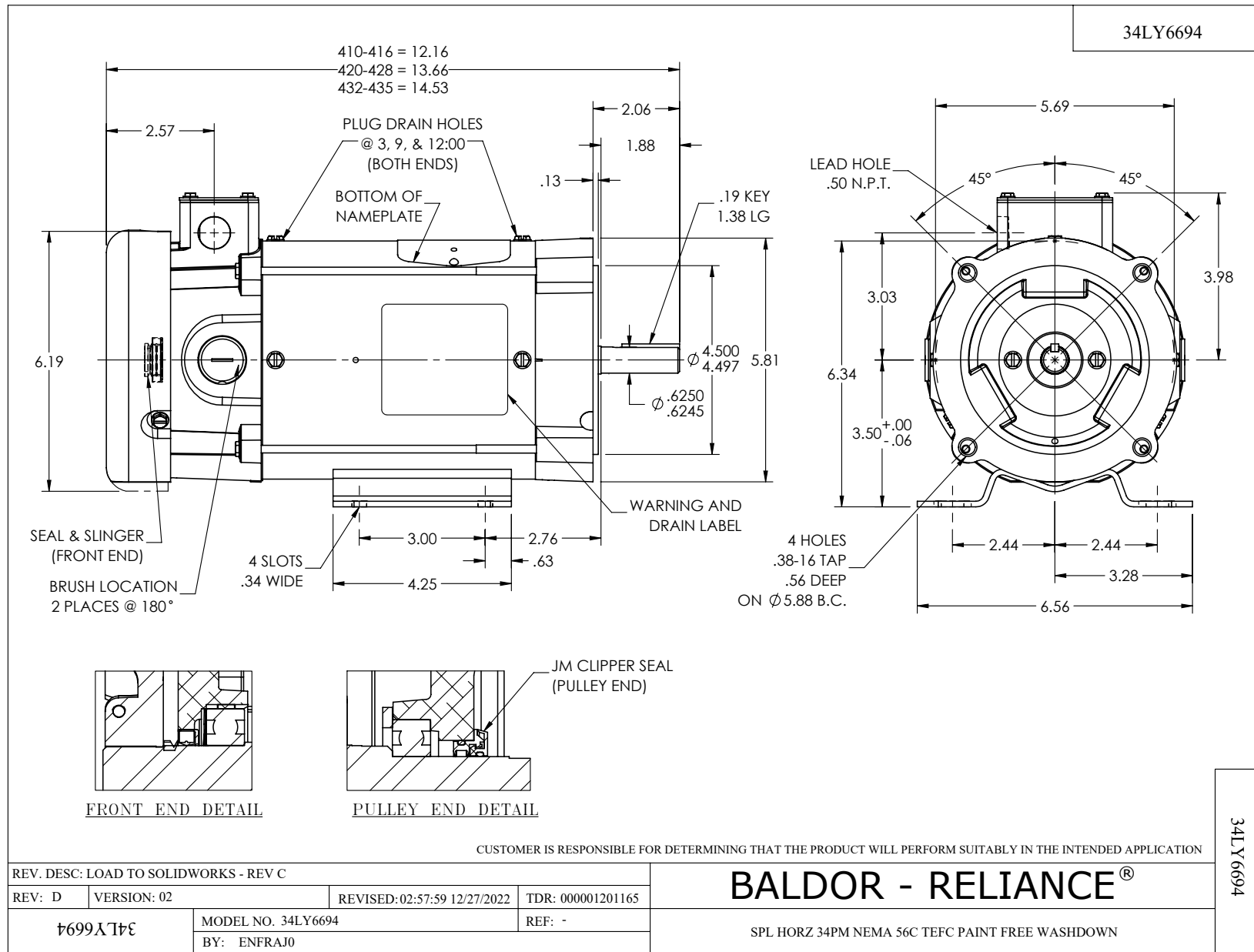
WINDING # 34WG3662

Typical performance - not guaranteed values.

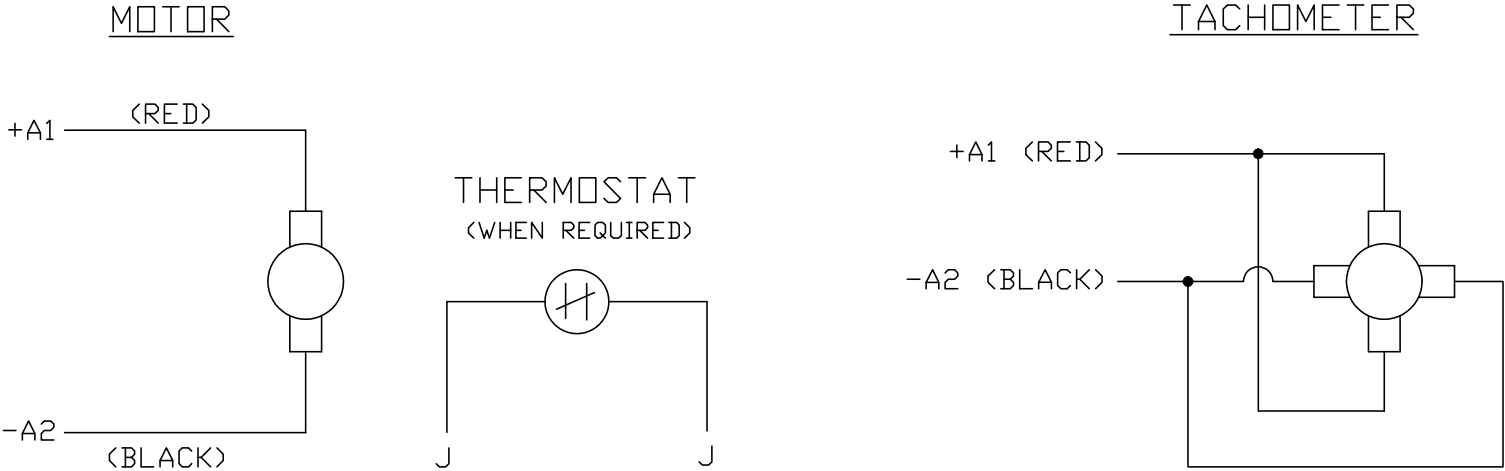
0.5 HP DC 1750 RPM 90 V 3428P

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