

ABB BALDOR RELIANCE III

Customer information packet

CDP3430-V24

.5HP, 1800RPM, DC, 56C, 3424P, TENV, F1

Class - None

Division -

Specifications

Armature Voltage	24 V
Base Speed	1800 rpm
Enclosure	TENV
Frame	56C
Frame Material	Steel
Haz Area Class and Group	None
Output Power	0.500 HP
Agency Approvals	CSA
	UR
Ambient Temperature	40 °C
Armature Current	19.6 a
Armature Inertia	8.264 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 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	12.60 IN
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
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	K
Type	DC
Mech. spec.	34-6943
Base	
Status	PRD/A
Elec. spec.	34WGZ611
Layout	34LY6943
Eff. date	10-25-2024
CD Diagram	CD0194
Poles	00
Leads	
Proprietary	False
Created date	01-01-0001

Shaft Slinger Indicator

No Slinger

Nameplate

NP0111L			
CAT.NO.	CDP3430-V24		
SPEC.	34-6943Z611G2		
HP	.5	ENCL	TENV
RPM	1800		
FRAME	56C	TYPE	3424P
ARM V	24	ARM A	19.6
FLD V		FLD A	
INSUL	F	AMB.	40
DUTY	CONT	SUPPLY	A
BRG/DE	6203	BRG/ODE	6203
BRUSHES	2/BP5104BV01		
	BLANK		
SER.			
BLANK			
APRV-CSA		APRV-UL	

Parts List

Part number	Description	Quantity
SA114010	SA 34-6943Z611G2	1.000 ea
AA010206	AA 34-6943Z611G2	1.000 ea
BP5104BV01	CARBON BRUSH - 12 DC - MZ65	2.000 ea
BP5100	SPRING PRESSURE BRACKET ASSY	2.000 ea
34RK5006	ROCKERARM ASSEMBLY MODEL 34 PM	1.000 ea
51XF1032A08	10/32X1/2 HXWSHR HD, SL, TYPE F ,SERATED	4.000 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
34EP3114A03	FR EP, MACH MODEL 34 TENV W/EXT T-BOLTS	1.000 ea
WD4102A65	HEYCO #2827 (B 625-500) SHORTY BUSHING	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
34CB4519	BRUSH INSPECTION COVER	2.000 ea
34GS1022	BRUSH INSP COVER GASKET,WHITE NON-CONDUCT	2.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
34EP3300A66	PU ENDPLATE, MACH W/INTERNAL RABBET	1.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 ea
34CB4518	CONDUIT BOX LID, STAMPED F/34P	1.000 ea
34GS1027	GASKET, 34P KOBX LID, CS-301 LEXIDE	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 ea
WD1000A50	TERM, AMP #4-520447-2	2.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.014 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
ML14A1B12	12 AWG,A1,BLACK	10.000 in
ML14A2B12	12 AWG,A2,BLACK	10.000 in
HA3100A83	THRUBOLT 10-32 X 7.250"	4.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0194	CONNECTION LABEL	1.000 ea
NP0111L	NP STD LASER ENGRAVED DC MOTORS, UL CSA	1.000 ea
35PA1066	PKG GRP, PRINT PK1008A07	1.000 ea

MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
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DC Motor Performance Data

Record # 500

Typical performance - not guaranteed values

Winding: 34WGZ611-R003		Type: 3424P		Enclosure: TENV	
Nameplate Data		General Characteristics			
Rated Output (HP)	0.5	Armature Resistance @ 25°C		0.0933 Ω	
R.P.M.	1800				
Armature Volts	24	Voltage Constant		12.46 v/krpm	
Armature Amps	19.6				
Field Volts		Armature Inductance		0.7493 mH	
Field Amps		Armature Inertia		8.2643 LI²	
Rating - Duty	40C AMB-CONT				
Power Supply Code	A				

Load Characteristics at 24 Armature Volts

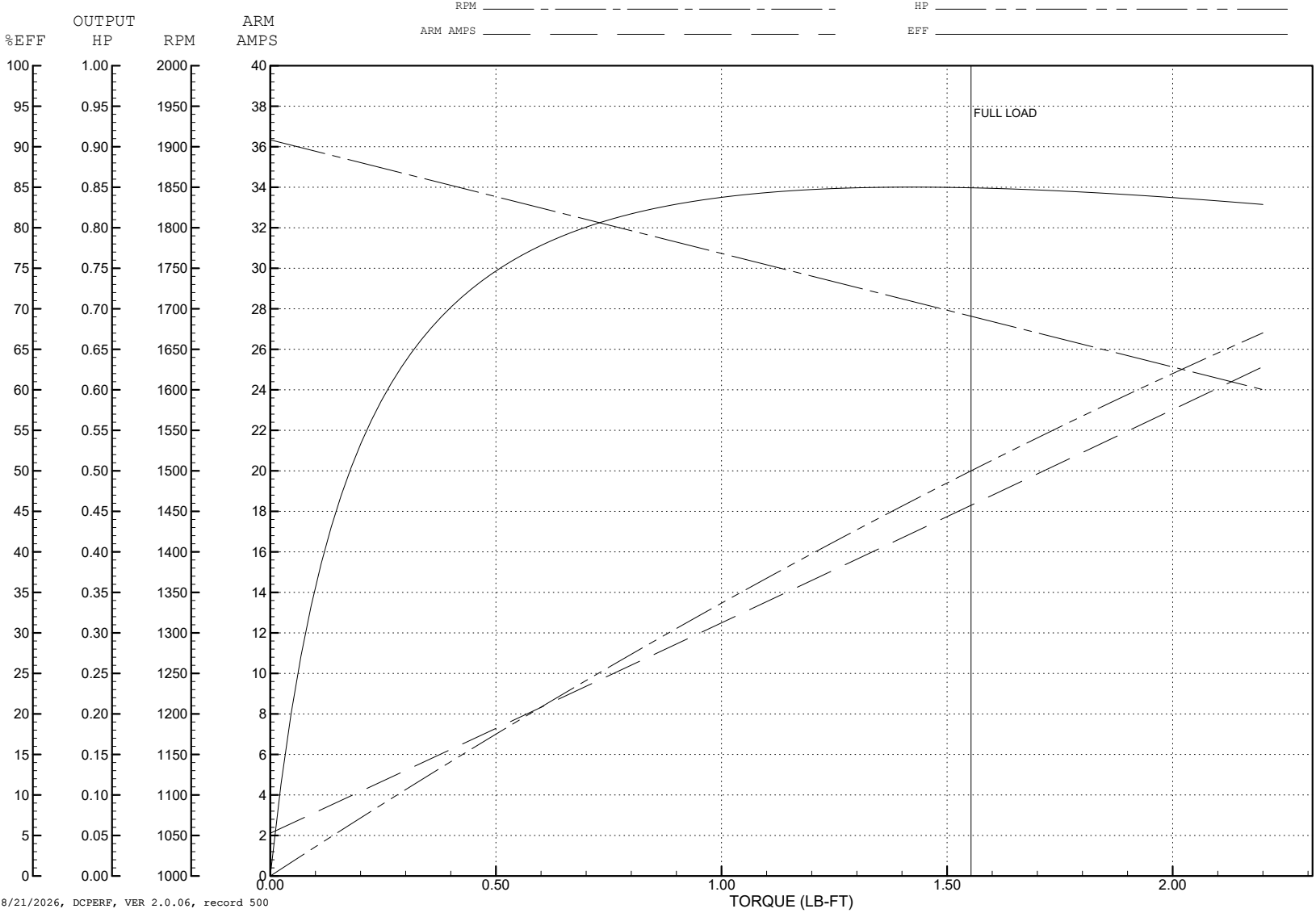
Load Point	1	2	3	4	5	6	7
Armature Amps	2.28	5.71	9.68	13.5	17.5	21.4	25
R.P.M.	1900	1861	1807	1760	1703	1658	1591
Torque (LB-FT)	0	0.37	0.73	1.1	1.47	1.83	2.2

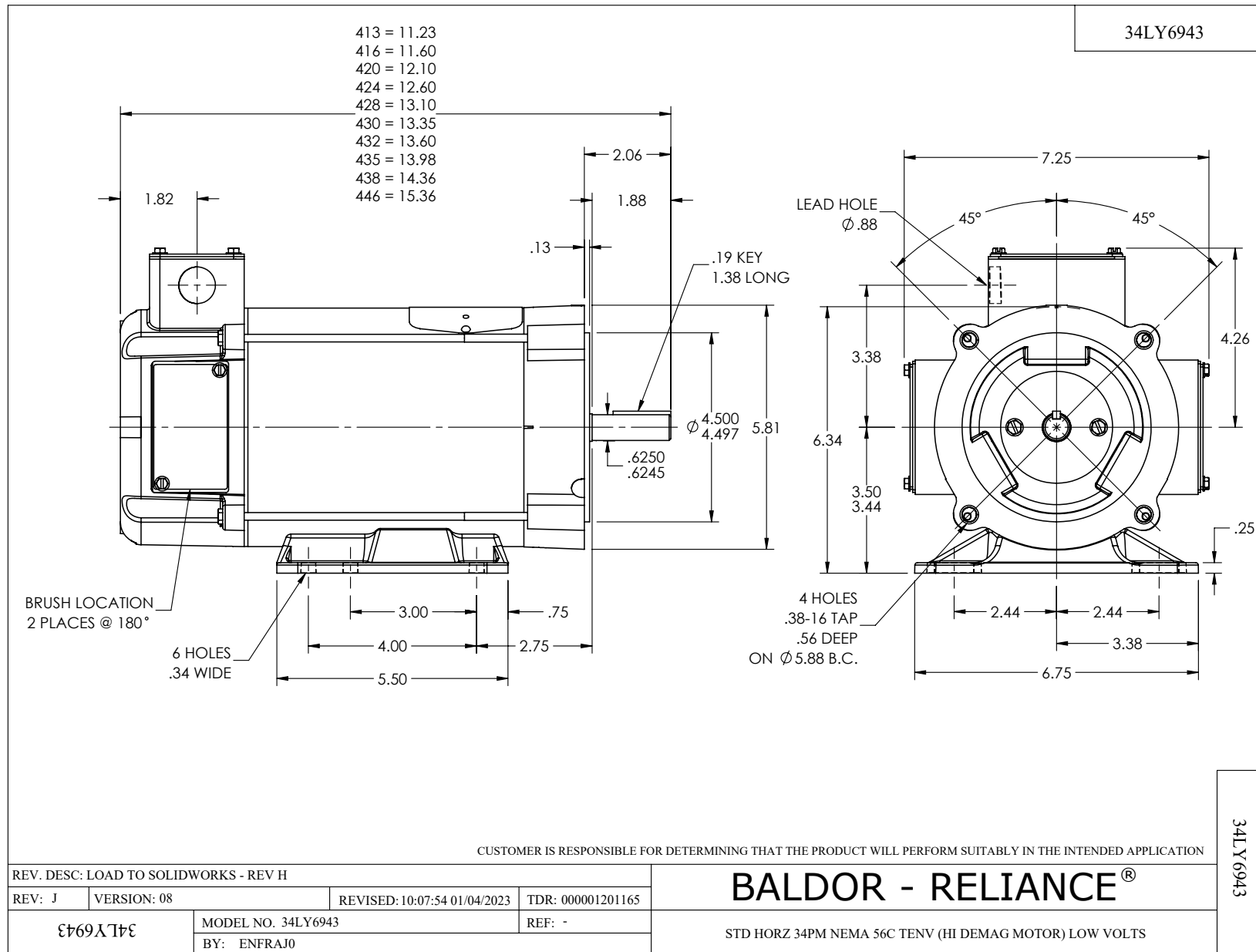
ABB Motors and Mechanical Inc.

WINDING # 34WGZ611

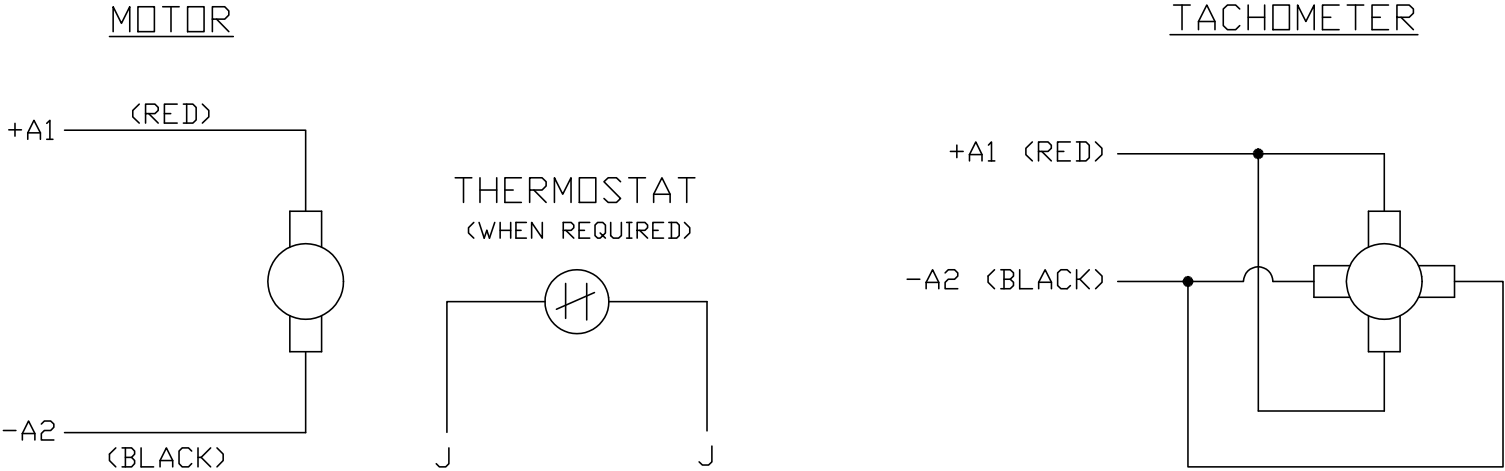
Typical performance - not guaranteed values.

0.5 HP DC 1800 RPM 24 V 3424P
ENCL: TENV 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