

ABB BALDOR RELIANCE III

Customer information packet

CDP3420-V24

.33HP, 1800RPM, DC, 56C, 3416P, 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	0.333 HP
Agency Approvals	CSA
	UR
Ambient Temperature	40 °C
Armature Current	13.6 a
Armature Inertia	5.510 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	11.60 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	M
Type	DC
Mech. spec.	34-6943
Base	
Status	PRD/A
Elec. spec.	34WGZ610
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.	CDP3420-V24		
SPEC.	34-6943Z610		
HP	.333	ENCL	TENV
RPM	1800		
FRAME	56C	TYPE	3416P
ARM V	24	ARM A	13.6
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	

DC Motor Performance Data

Record # 505

Typical performance - not guaranteed values

Winding: 34WGZ610-R001		Type: 3416P	Enclosure: TENV
Nameplate Data		General Characteristics	
Rated Output (HP)	0.333	Armature Resistance @ 25°C	0.129 Ω
R.P.M.	1800		
Armature Volts	24	Voltage Constant	13.01 v/krpm
Armature Amps	13.6		
Field Volts		Armature Inductance	0.936 mH
Field Amps		Armature Inertia	5.5096 LI ²
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	2.4	5.05	7.74	10.65	13.4	16.01	18.82
R.P.M.	1825	1795	1753	1707	1666	1635	1596
Torque (LB-FT)	0	0.25	0.5	0.75	1	1.25	1.5

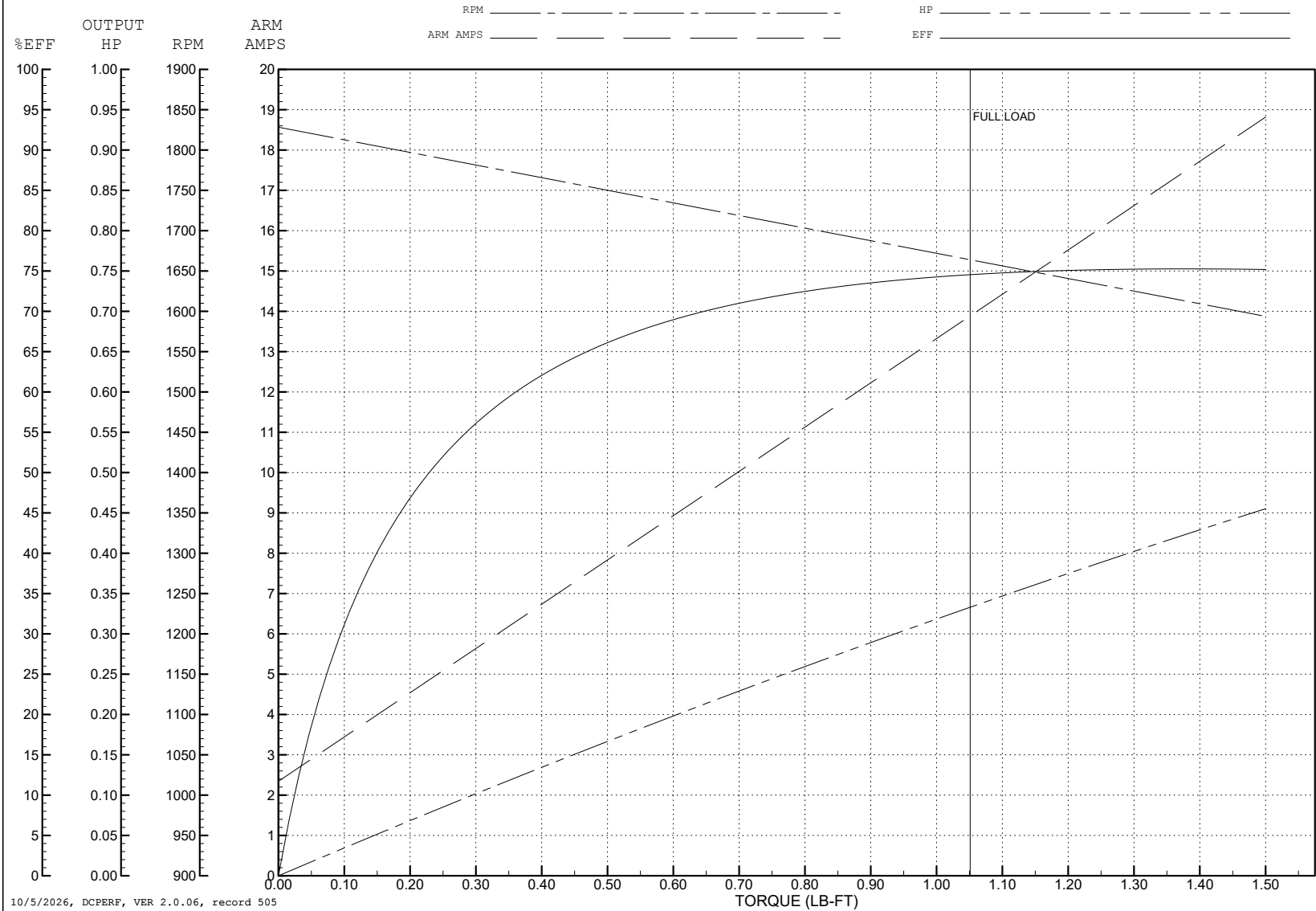
ABB Motors and Mechanical Inc.

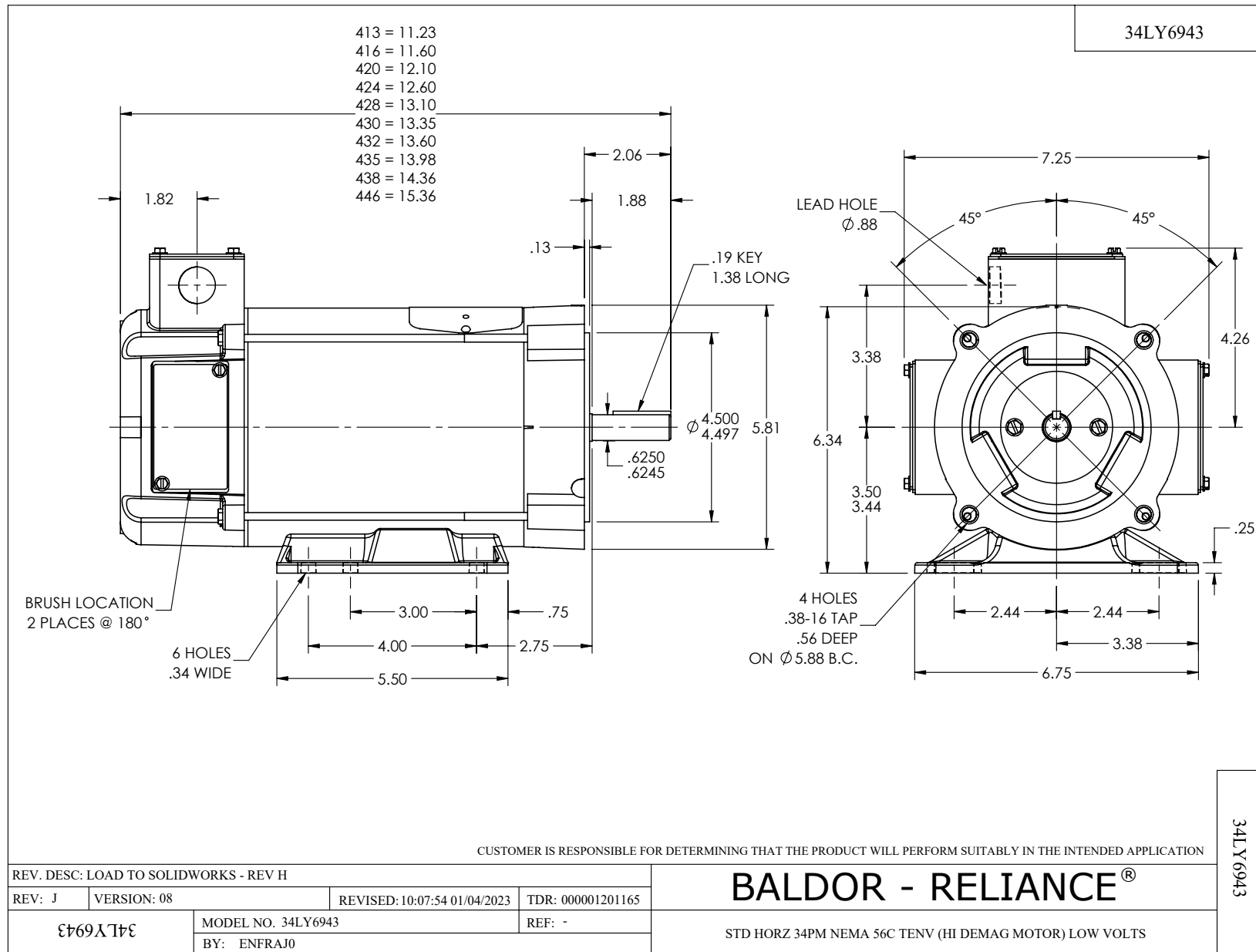
WINDING # 34WGZ610

Typical performance - not guaranteed values.

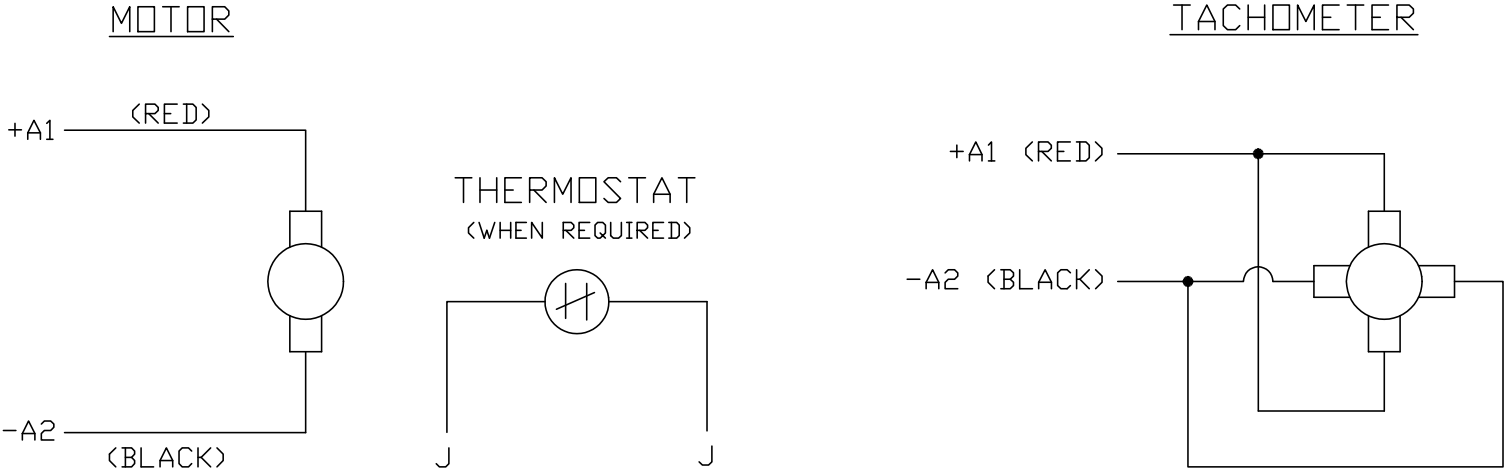
0.333 HP DC 1800 RPM 24 V 3416P

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