

ABB BALDOR RELIANCE III

Customer information packet

CDP3445-V12

1HP, 1800RPM, DC, 56C, 3435P, TEFC, 12V

Class - None

Division -

Specifications

Armature Voltage	12 V
Base Speed	1800 rpm
Enclosure	TEFC
Frame	56C
Frame Material	Steel
Haz Area Class and Group	None
Output Power	1.000 HP
Agency Approvals	CSA UR
Ambient Temperature	40 °C
Armature Current	85.6 a
Armature Inertia	12.052 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	Special
Motor Lead Quantity/Wire Size	2 @ 8 AWG
Motor Lead Termination	Ring Terminals
Motor Standards	NEMA
Mounting Arrangement	F3
Overall Length	15.89 IN
Product Family	General Purpose
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	L
Type	DC
Mech. spec.	34-7074
Base	
Status	PRD/A
Elec. spec.	34WGZ621
Layout	34LY7074
Eff. date	09-01-2026
CD Diagram	CD0194
Poles	00
Leads	
Proprietary	False
Created date	01-01-0001

Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger

Nameplate

NP0111L			
CAT.NO.	CDP3445-V12		
SPEC.	34-7074Z621G1		
HP	1	ENCL	TEFC
RPM	1800		
FRAME	56C	TYPE	3435P
ARM V	12	ARM A	85.6
FLD V		FLD A	
INSUL	H	AMB.	40
DUTY	CONT	SUPPLY	A
BRG/DE	6203	BRG/ODE	6203
BRUSHES	2/BP5112AU01		
	BLANK		
SER.			
BLANK			
APRV-CSA		APRV-UL	

DC Motor Performance Data

Record # 506

Typical performance - not guaranteed values

Winding: 34WGZ621-R003		Type: 3435P	Enclosure: TEFC
Nameplate Data		General Characteristics	
Rated Output (HP)	1	Armature Resistance @ 25°C	0.0164 Ω
R.P.M.	1800		
Armature Volts	12	Voltage Constant	6.208 v/krpm
Armature Amps	85.6		
Field Volts		Armature Inductance	0.1149 mH
Field Amps		Armature Inertia	12.052 LI ²
Rating - Duty	40C AMB-CONT		
Power Supply Code	A		

Load Characteristics at 12 Armature Volts

Load Point	1	2	3	4	5	6	7
Armature Amps	4.9	20.3	36.4	51.3	67.3	83.8	100.5
R.P.M.	1911	1853	1790	1732	1668	1594	1542
Torque (LB-FT)	0	0.75	1.5	2.25	3	3.75	4.5

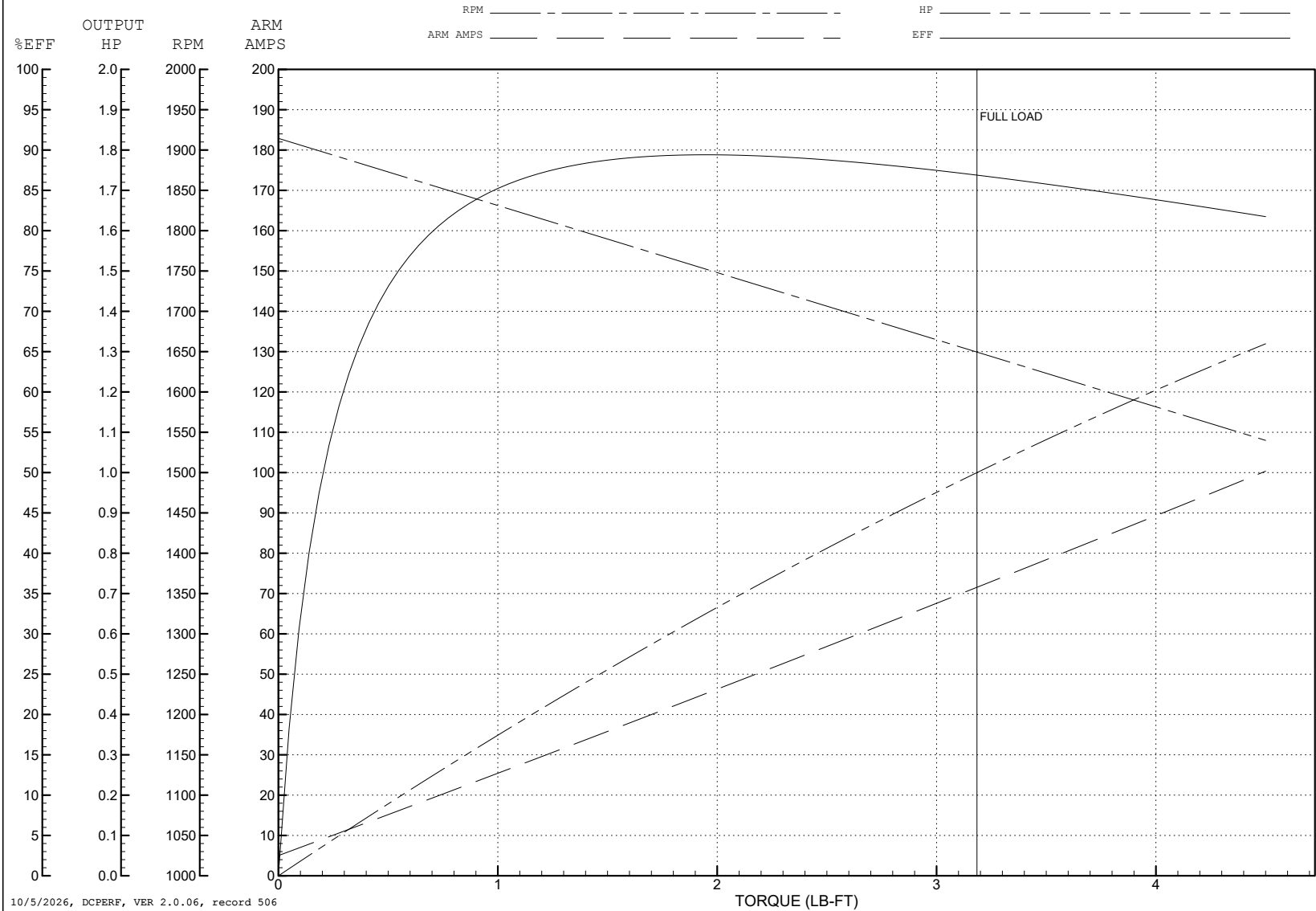
ABB Motors and Mechanical Inc.

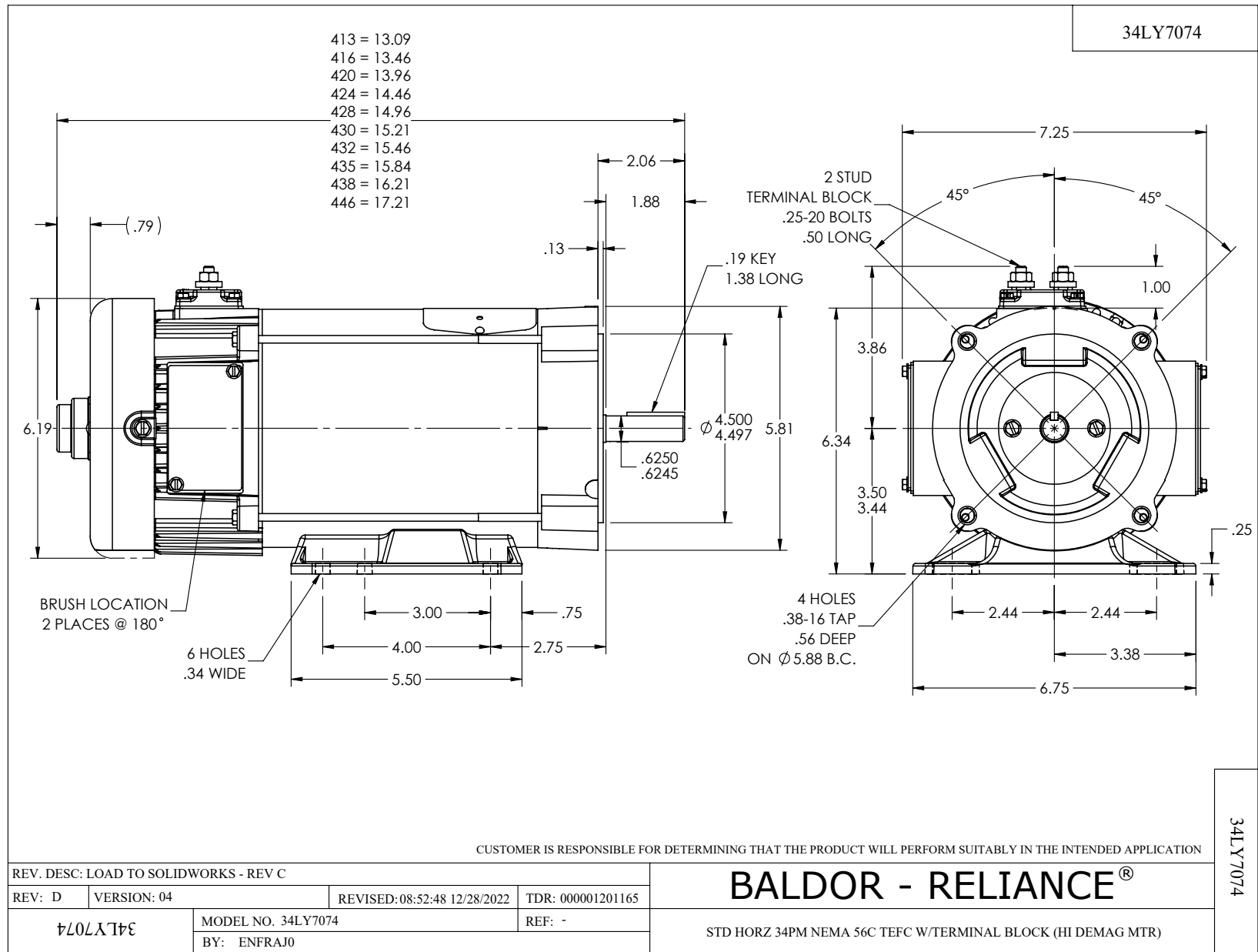
WINDING # 34WGZ621

Typical performance - not guaranteed values.

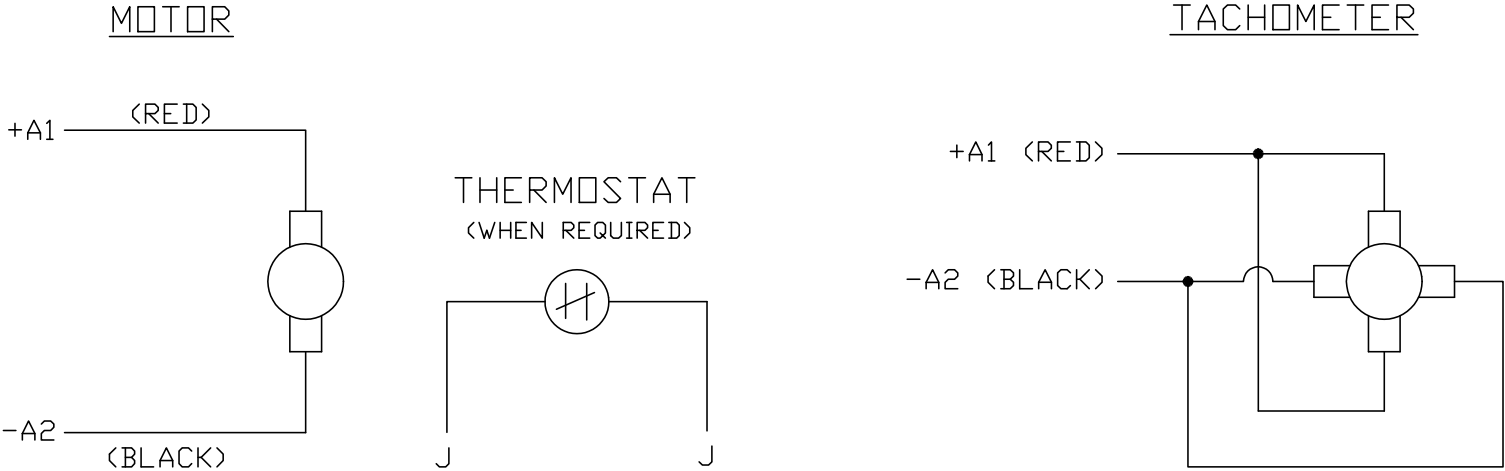
1 HP DC 1800 RPM 12 V 3435P

ENCL: TEFC DUTY: CONT CL: H





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