

BALDOR® • RELIANCE™

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-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	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	K
Type	DC
Mech. spec.	34-7074
Base	
Status	PRD/A
Elec. spec.	34WGZ621
Layout	34LY7074
Eff. date	10-25-2024
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	Voltage Constant	6.208 v/krpm
Armature Volts	12	Armature Inductance	0.1149 mH
Armature Amps	85.6	Armature Inertia	12.052 LI ²
Field Volts			
Field Amps			
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

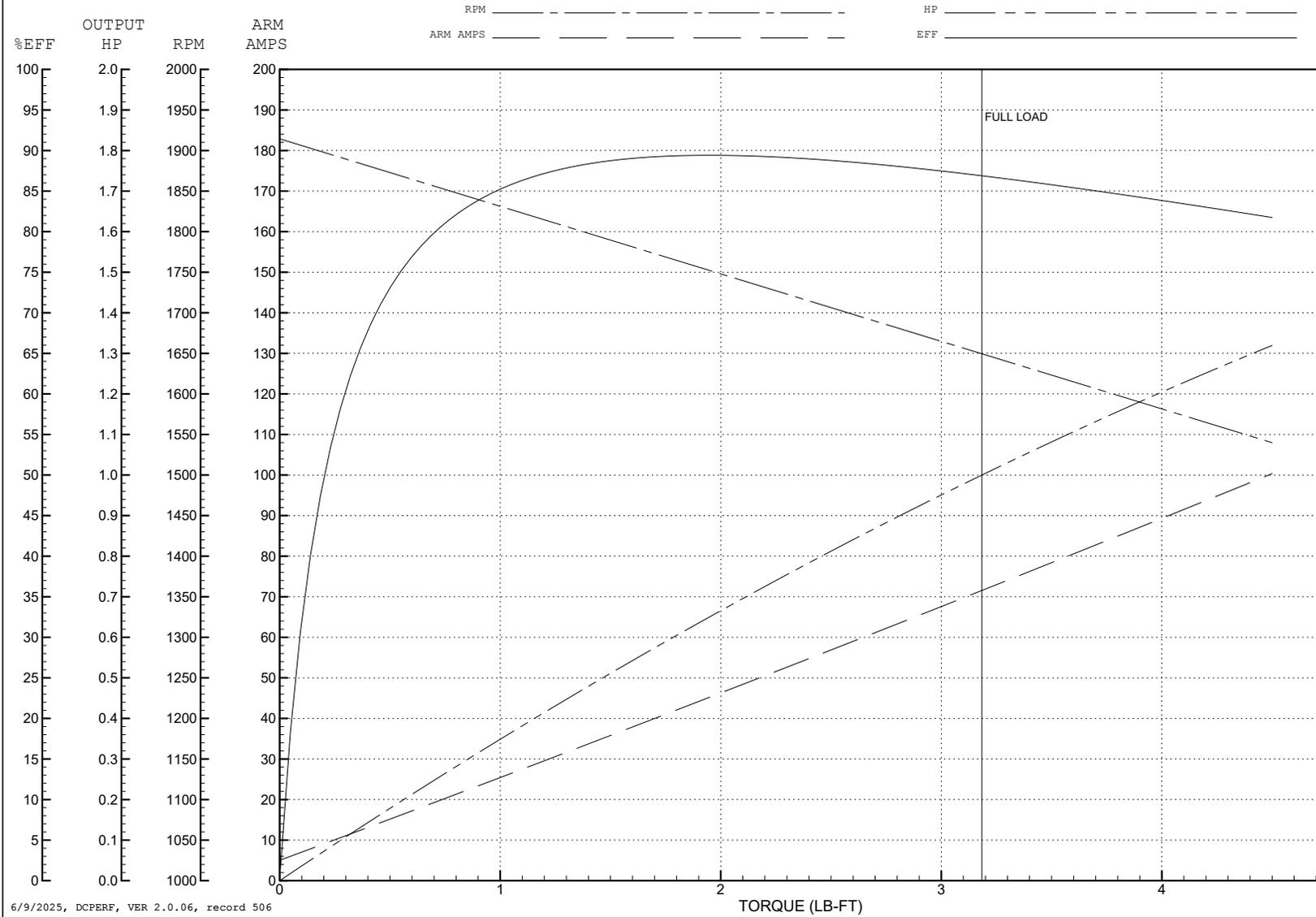
ABB Motors and Mechanical Inc.

WINDING # 34WGZ621

Typical performance - not guaranteed values.

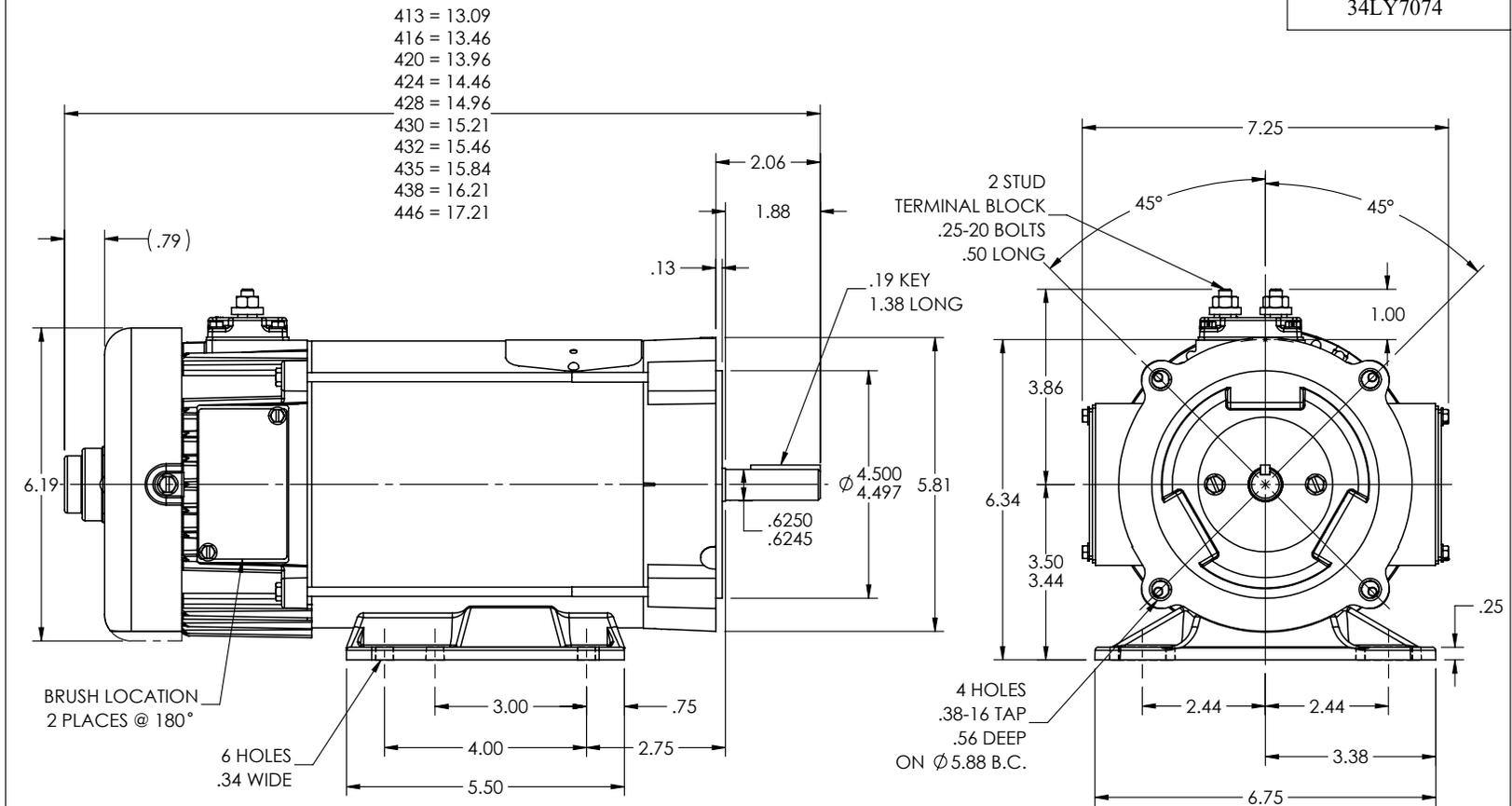
1 HP DC 1800 RPM 12 V 3435P

ENCL: TEFC DUTY: CONT CL: H



6/9/2025, DCPERF, VER 2.0.06, record 506

34LY7074



CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

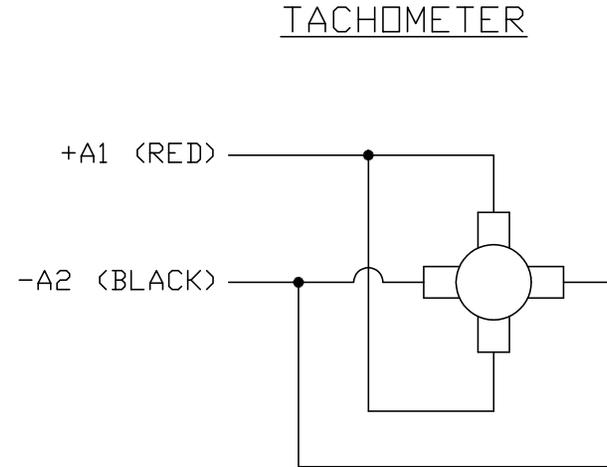
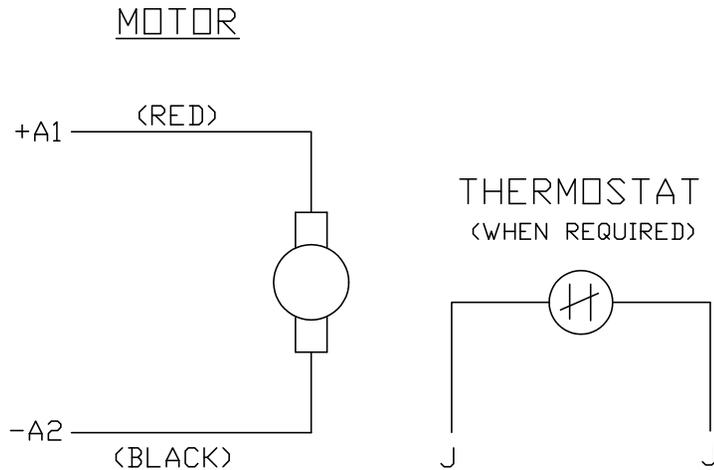
REV. DESC: LOAD TO SOLIDWORKS - REV C			
REV: D	VERSION: 04	REVISED: 08:52:48 12/28/2022	TDR: 000001201165
34LY7074		MODEL NO. 34LY7074	REF: -
		BY: ENFRAJ0	

BALDOR - RELIANCE®

STD HORZ 34PM NEMA 56C TEFC W/TERMINAL BLOCK (HI DEMAG MTR)

34LY7074

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 &..."		
761000	SCALE: -	BY: CK	REVISED: 07/28/95
	FILE: AAA00004503	TDR: 0078737	

BALDOR ELECTRIC Co.

CD TYPE P DC PERMANENT MAGNET MOTORS AND TACHOMETERS

CD0194