ABB BALDOR RELIANCE

Customer information packet

CDP3445-V12

1HP, 1800RPM, DC, 56C, 3435P, TEFC, 12V
Class - None
Division -

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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**			

Parts List

Part number	Description	Quantity
SA116150	SA 34-7074Z621G1	1.000 ea
AA010379	AA 34-7074Z621G1	1.000 ea
BP5112AU01	CARBON BRUSH - 12 DC - MZ75	2.000 ea
BP5100	SPRING PRESSURE BRACKET ASSY	2.000 ea
59XW2520A07	.25-20X7/16HEX SER WSHR HD TAPTIE-II T	4.000 ea
34RK5006A01	ROCKERARM ASSEMBLY MODEL 34 PM	1.000 ea
51XF1032A08	10/32X1/2 HXWSHR HD, SL, TYPE F ,SERATED	4.000 ea
86XN0832B06	8-32X3/8 BIND HD MACH,BRA	2.000 ea
HW1001B08	WASHER, #8 SPLT LD, BR	2.000 ea
WD1349	TERMINAL BLOCK, 2 STUD .25-20 BOLT	1.000 ea
34GS1023	GASKET, STRAIN RELIEF PLATE - CS-301 LEX	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
XY2520B12	1/4-20 BRASS NUT	4.000 ea
HW1000B25	1/4 SAE FL WASHER NARROW ID=.281 OD=.625	8.000 ea
34EP3112A03	FR EP, MACH MODEL 34 ENCL	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-CONDUC	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
34FN3002A01SP	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 ea
34FH5002A09	FAN COVER ASSY W/SHAFT COVER, ROTATED DI	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 ea
LD5000B14	LEAD ASSY, ML1400B08 W/#10 & .25 RING TE	1.000 ea
LB9000A51	LEAD MARKER - "A1"	4.000 sh
LB9000A52	LEAD MARKER - "A2"	4.000 sh
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.014 ga
LD5000B14	LEAD ASSY, ML1400B08 W/#10 & .25 RING TE	1.000 ea

85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
HA3100A56	THRUBOLT 10-32 X 8.625	4.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 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
35PA1007	PKG GRP, PRINT PK1034A07	1.000 ea

DC Motor Performance Data
Record # 506
Typical performance - not guaranteed values

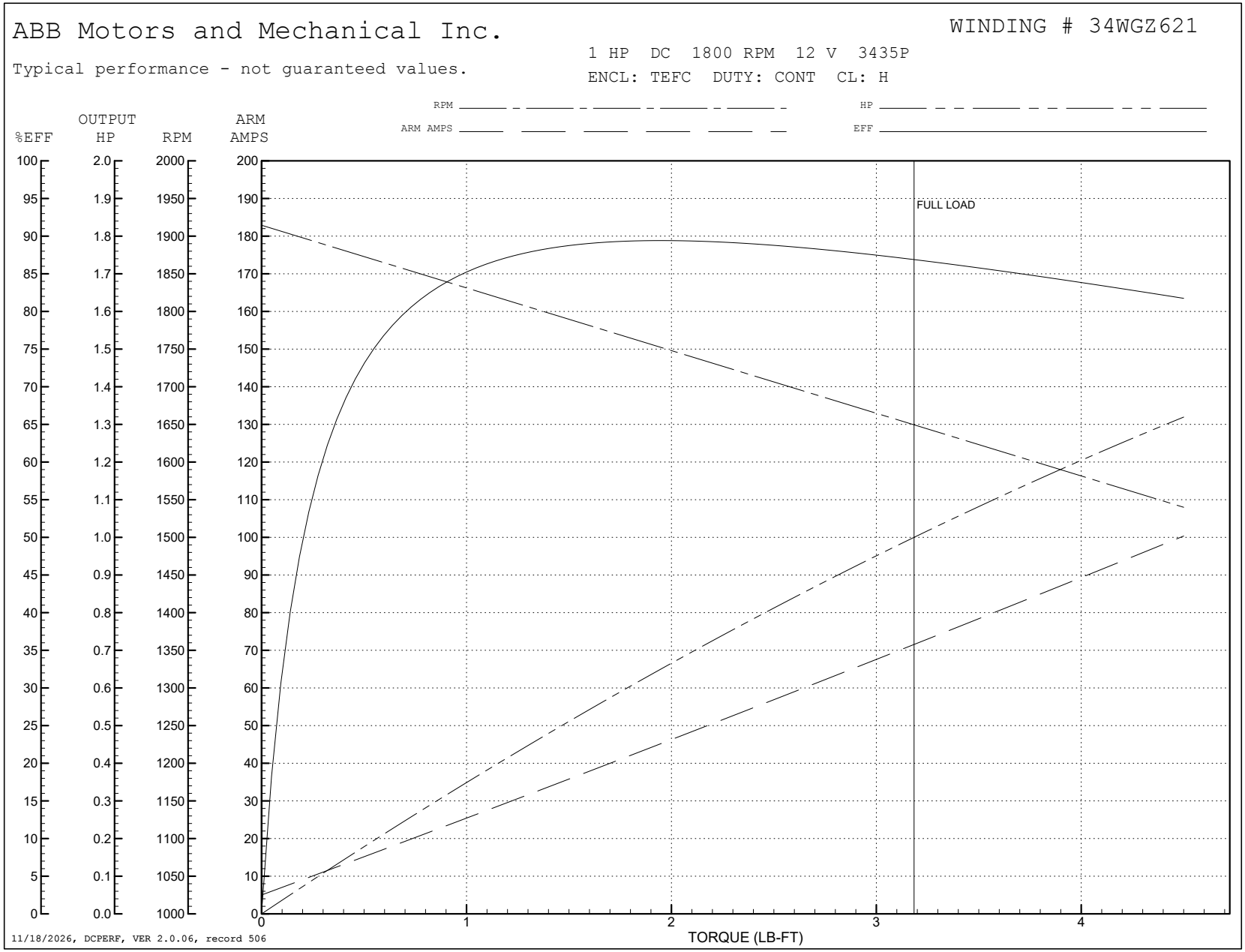
Winding: 34WGZ621-R003	**Type:** 3435P	**Enclosure:** TEFC

Nameplate Data	
Rated Output (HP)	1
R.P.M.	1800
Armature Volts	12
Armature Amps	85.6
Field Volts	
Field Amps	
Rating - Duty	40C AMB-CONT
Power Supply Code	A

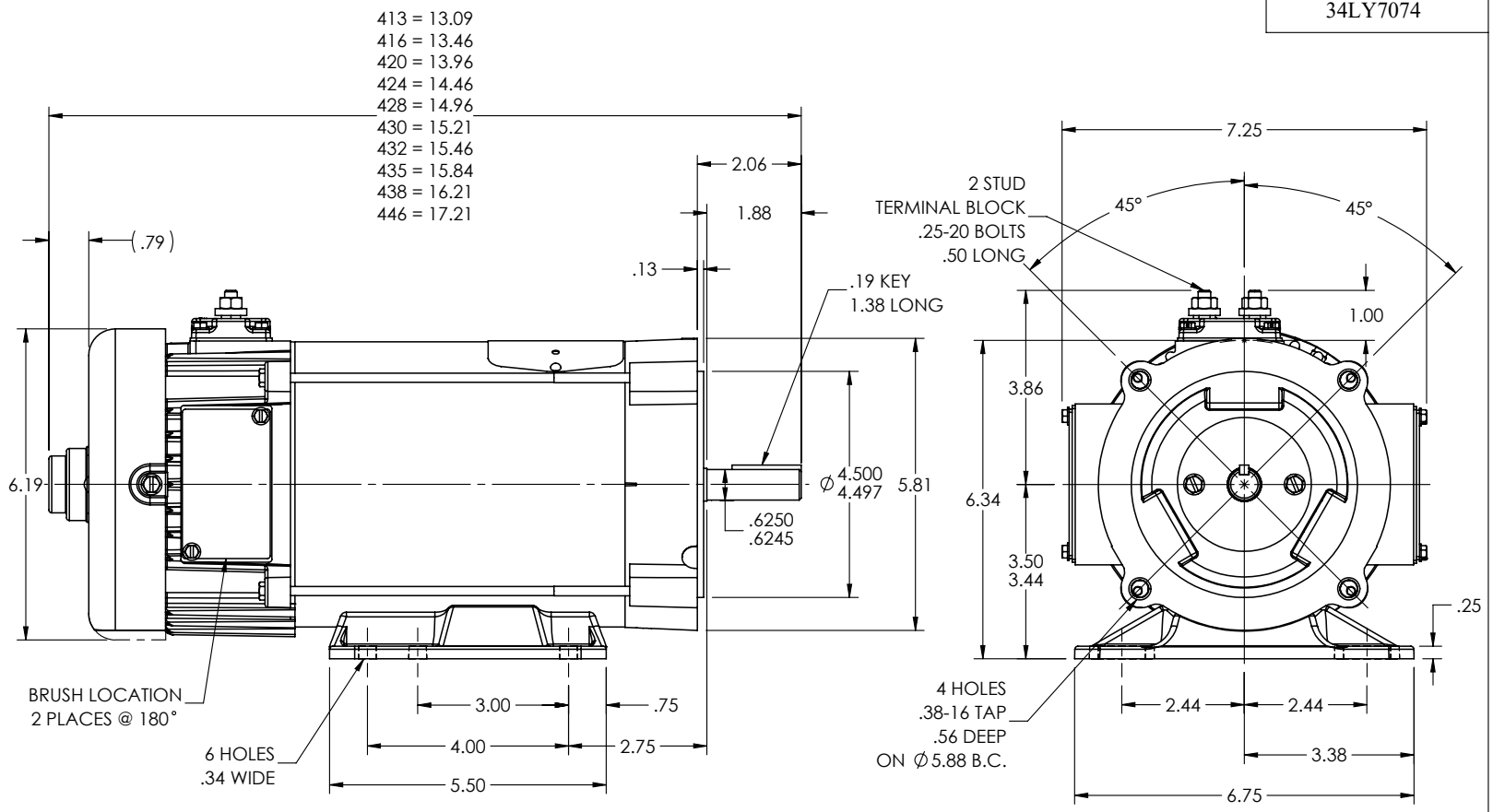
General Characteristics	
Armature Resistance @ 25ºC	0.0164 Ω
Voltage Constant	6.208 v/krpm
Armature Inductance	0.1149 mH
Armature Inertia	12.052 LI²

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
RPM
ARM AMPS
HP
EFF
%EFF
OUTPUT HP
RPM
ARM AMPS
FULL LOAD
TORQUE (LB-FT)
11/18/2026, 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		

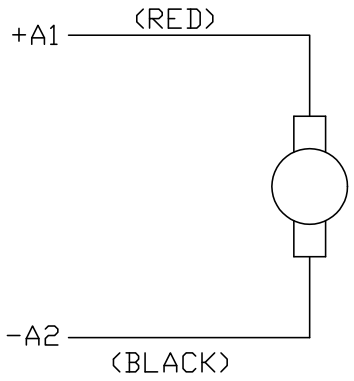
BALDOR - RELIANCE®

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

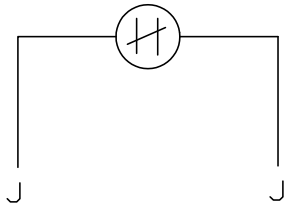
34LY7074

CD0194

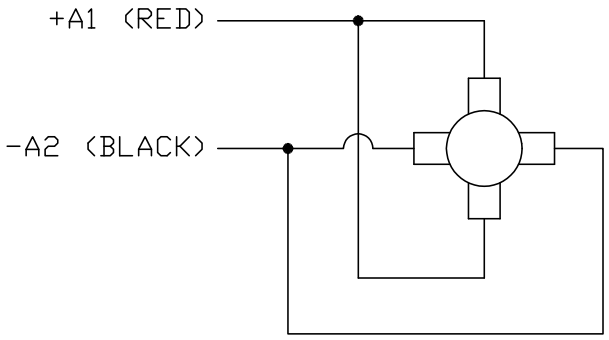
MOTOR



THERMOSTAT
(WHEN REQUIRED)



TACHOMETER



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.

CD0194

MATL: –				BALDOR ELECTRIC Co.
REV: E	ADDED NOTE "LEAD COLORS FOR REFERENCE ONLY &....			
CD0194	SCALE: –	BY: CK	REVISED: 07/28/95	CD TYPE P DC PERMANENT MAGNET MOTORS AND TACHOMETERS
	FILE: AAA00004503		TDR: 0078737	