ABB BALDOR RELIANCE

Customer information packet

CDP3430-V12

.5HP, 1800RPM, DC, 56C, 3420P, TENV, 12V
Class - None
Division -

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Specifications

Armature Voltage	12 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	40.0 a
Armature Inertia	6.887 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 @ 10 AWG
Motor Lead Termination	Ring Terminals
Motor Standards	NEMA
Mounting Arrangement	F3
Overall Length	12.10 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.	34-7080
Base	
Status	PRD/A
Elec. spec.	34WGZ609
Layout	34LY7080
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-V12				
SPEC.	34-7080Z609G1				
HP	.5		**ENCL**	TENV	
RPM	1800				
FRAME	56C	**TYPE**	3420P		
ARM V	12		**ARM A**	40	
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 # 501
Typical performance - not guaranteed values

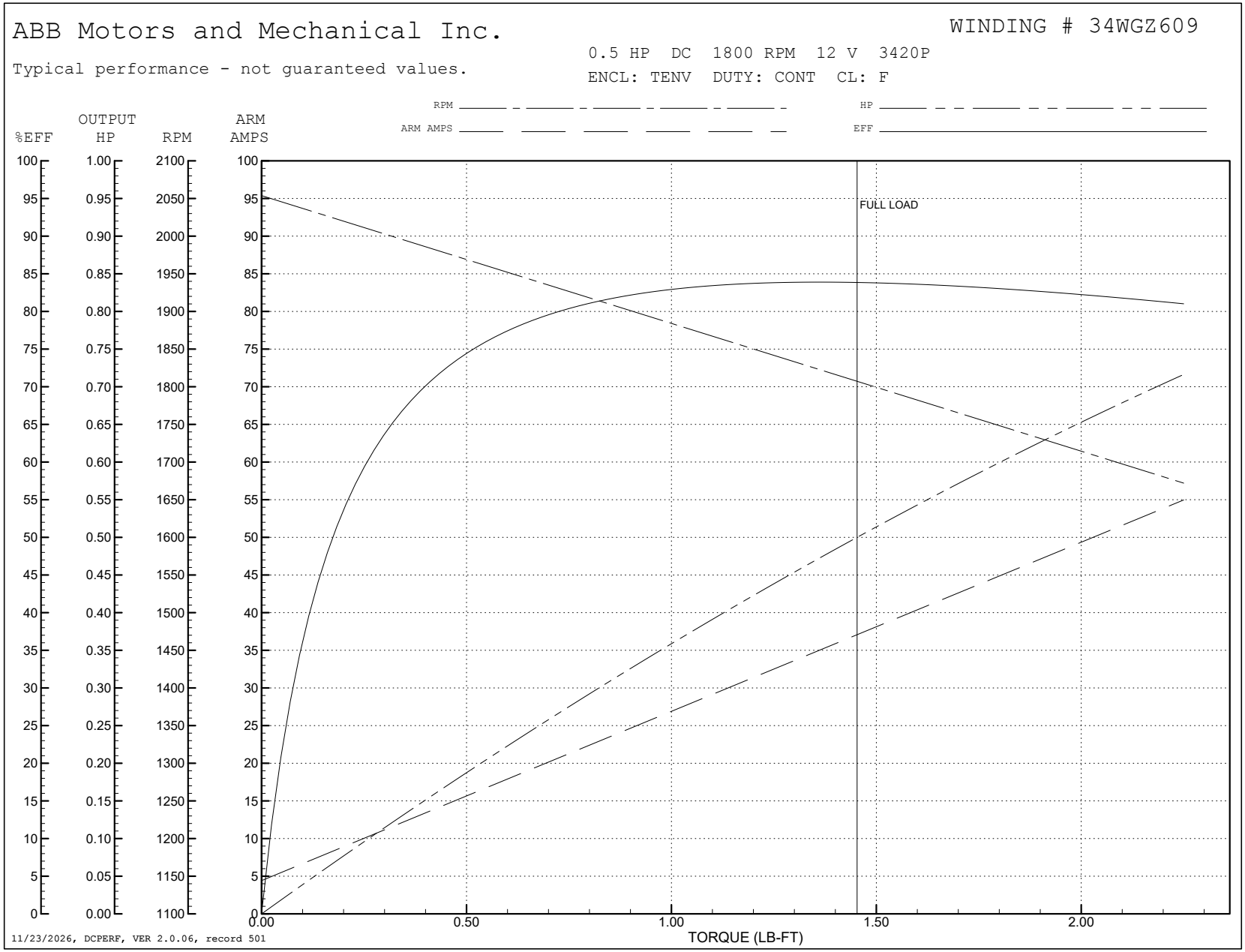
Winding: 34WGZ609-R002	**Type:** 3420P	**Enclosure:** TENV

Nameplate Data	
Rated Output (HP)	0.5
R.P.M.	1800
Armature Volts	12
Armature Amps	40
Field Volts	
Field Amps	
Rating - Duty	40C AMB-CONT
Power Supply Code	A

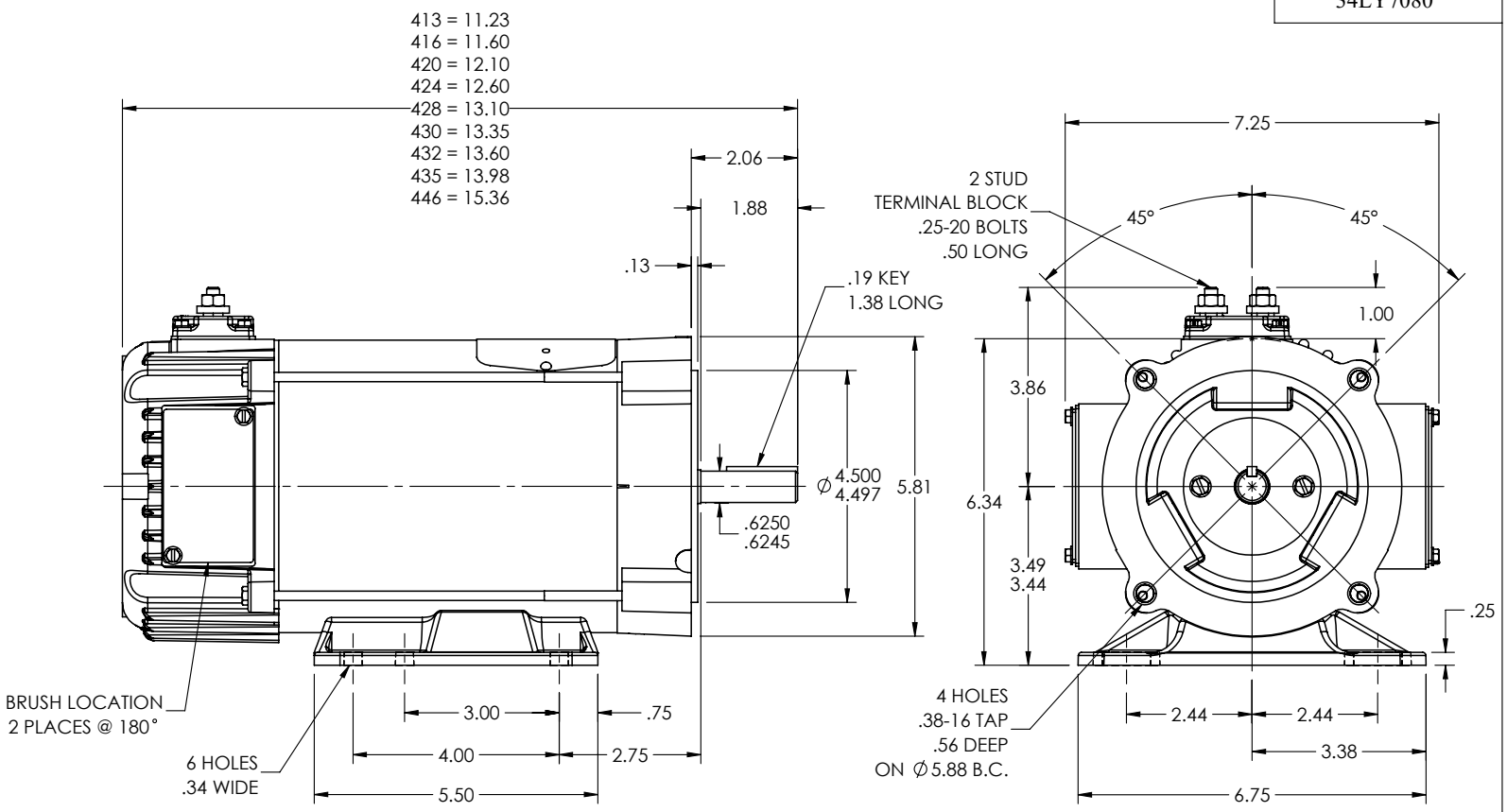
General Characteristics	
Armature Resistance @ 25ºC	0.0213 Ω
Voltage Constant	5.84 v/krpm
Armature Inductance	0.1689 mH
Armature Inertia	6.887 LI²

Load Characteristics at 12 Armature Volts

Load Point	**1**	**2**	**3**	**4**	**5**	**6**	**7**
Armature Amps	4.44	12.86	21.28	29.7	38.12	46.54	54.97
R.P.M.	2054	1990	1926	1863	1799	1736	1672
Torque (LB-FT)	0	0.375	0.75	1.125	1.5	1.875	2.25


ABB Motors and Mechanical Inc.
WINDING # 34WGZ609
Typical performance - not guaranteed values.
0.5 HP DC 1800 RPM 12 V 3420P
ENCL: TENV DUTY: CONT CL: F
RPM
ARM AMPS
HP
EFF
%EFF
OUTPUT HP
RPM
ARM AMPS
FULL LOAD
TORQUE (LB-FT)
11/23/2026, DCPERF, VER 2.0.06, record 501

34LY7080

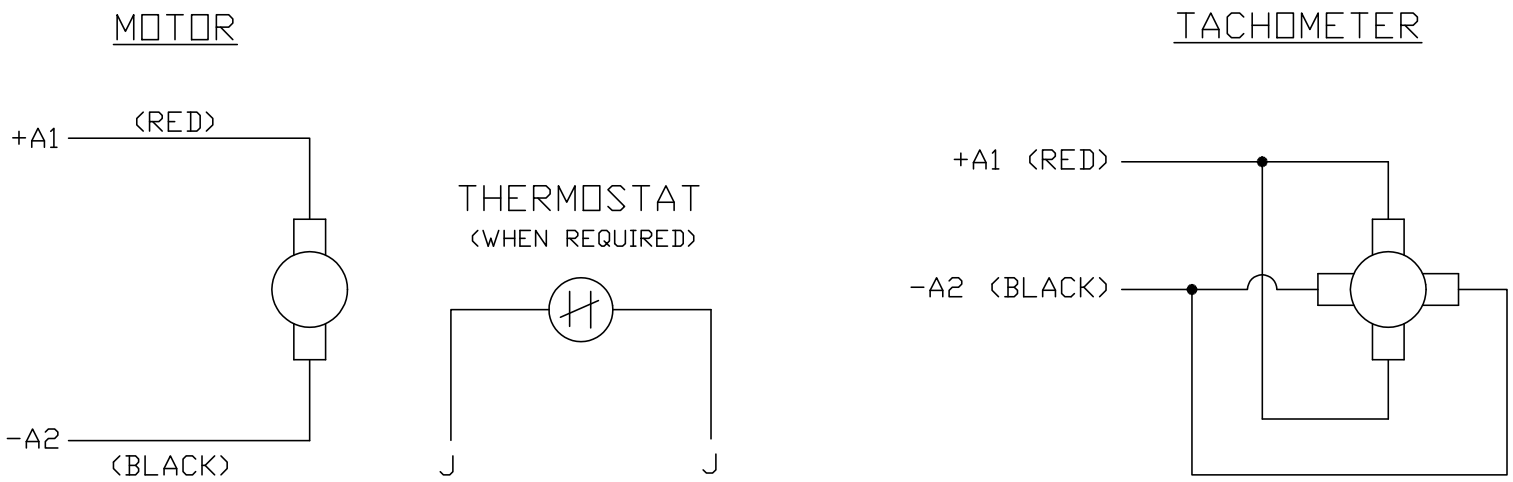


CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

REV. DESC: LOAD TO SOLIDWORKS - REV C			BALDOR - RELIANCE®
REV: D	VERSION: 04	REVISED: 10:50:26 01/04/2023	TDR: 000001201165
34LY7080	MODEL NO. 34LY7080		REF: -
	BY: ENFRAJ0		STD HORZ 34PM NEMA 56C TENV W/TERMINAL BLOCK (HI DEMAG MTR)

34LY7080

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.

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	