ABB BALDOR RELIANCE

Customer information packet

CDP3420-V12

.33HP, 1800RPM, DC, 56C, 3416P, TENV, F1
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	0.330 HP
Agency Approvals	CSA
	UR
Ambient Temperature	40 °C
Armature Current	28.6 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	K
Type	DC
Mech. spec.	34-6943
Base	
Status	PRD/A
Elec. spec.	34WGZ608
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-V12				
SPEC.	34-6943Z608G2				
HP	.33		**ENCL**	TENV	
RPM	1800				
FRAME	56C	**TYPE**	3416P		
ARM V	12		**ARM A**	28.6	
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 # 503
Typical performance - not guaranteed values

Winding: 34WGZ608-R003	**Type:** 3416P	**Enclosure:** TENV

Nameplate Data	
Rated Output (HP)	0.33
R.P.M.	1800
Armature Volts	12
Armature Amps	28.6
Field Volts	
Field Amps	
Rating - Duty	40C AMB-CONT
Power Supply Code	A

General Characteristics	
Armature Resistance @ 25ºC	0.036 Ω
Voltage Constant	6.49 v/krpm
Armature Inductance	0.245 mH
Armature Inertia	5.5096 LI²

Load Characteristics at 12 Armature Volts

Load Point	**1**	**2**	**3**	**4**	**5**	**6**	**7**
Armature Amps	3.72	9.42	14.4	19.56	24.95	30.6	36
R.P.M.	1808	1758	1708	1675	1635	1585	1536
Torque (LB-FT)	0	0.25	0.5	0.75	1	1.25	1.5

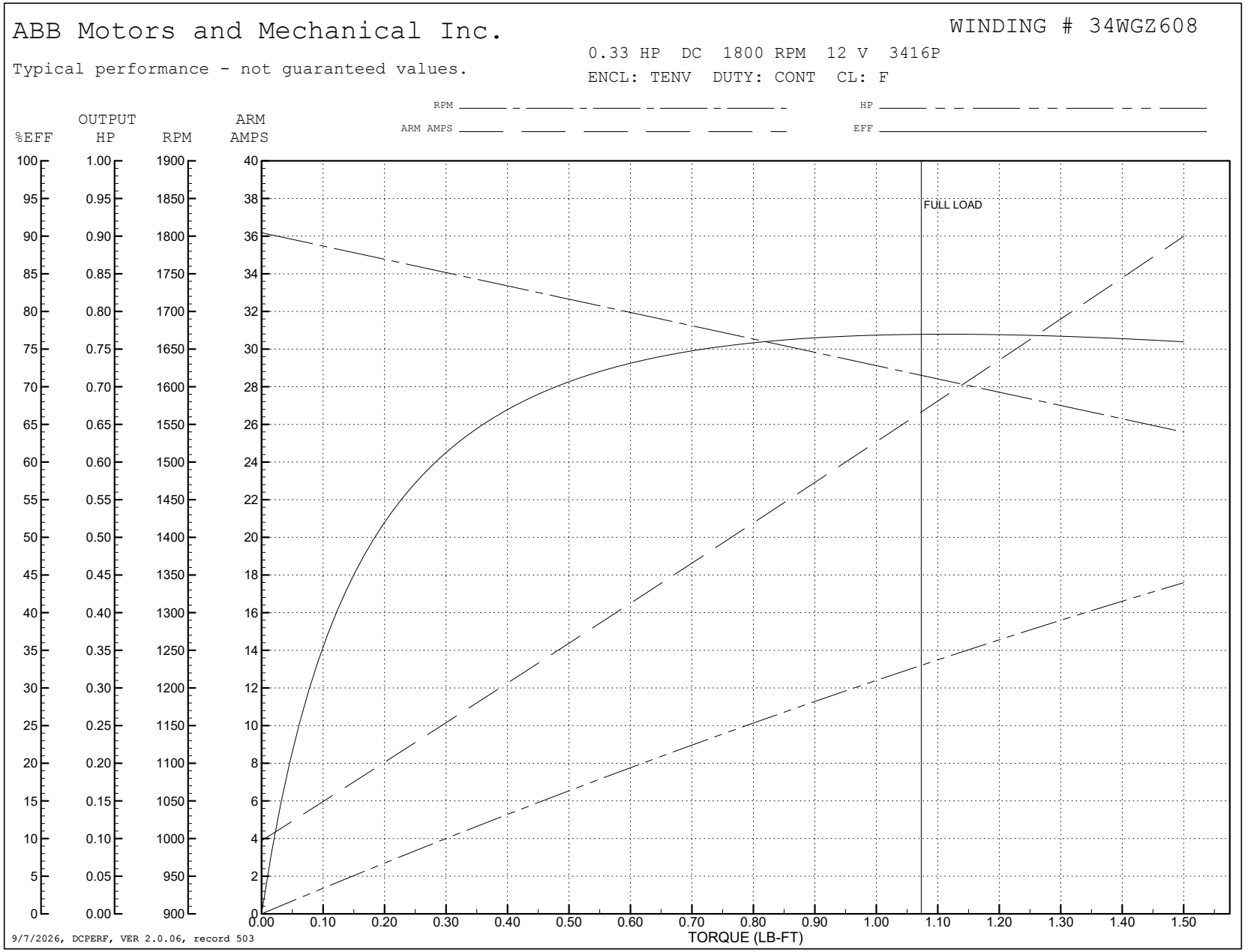
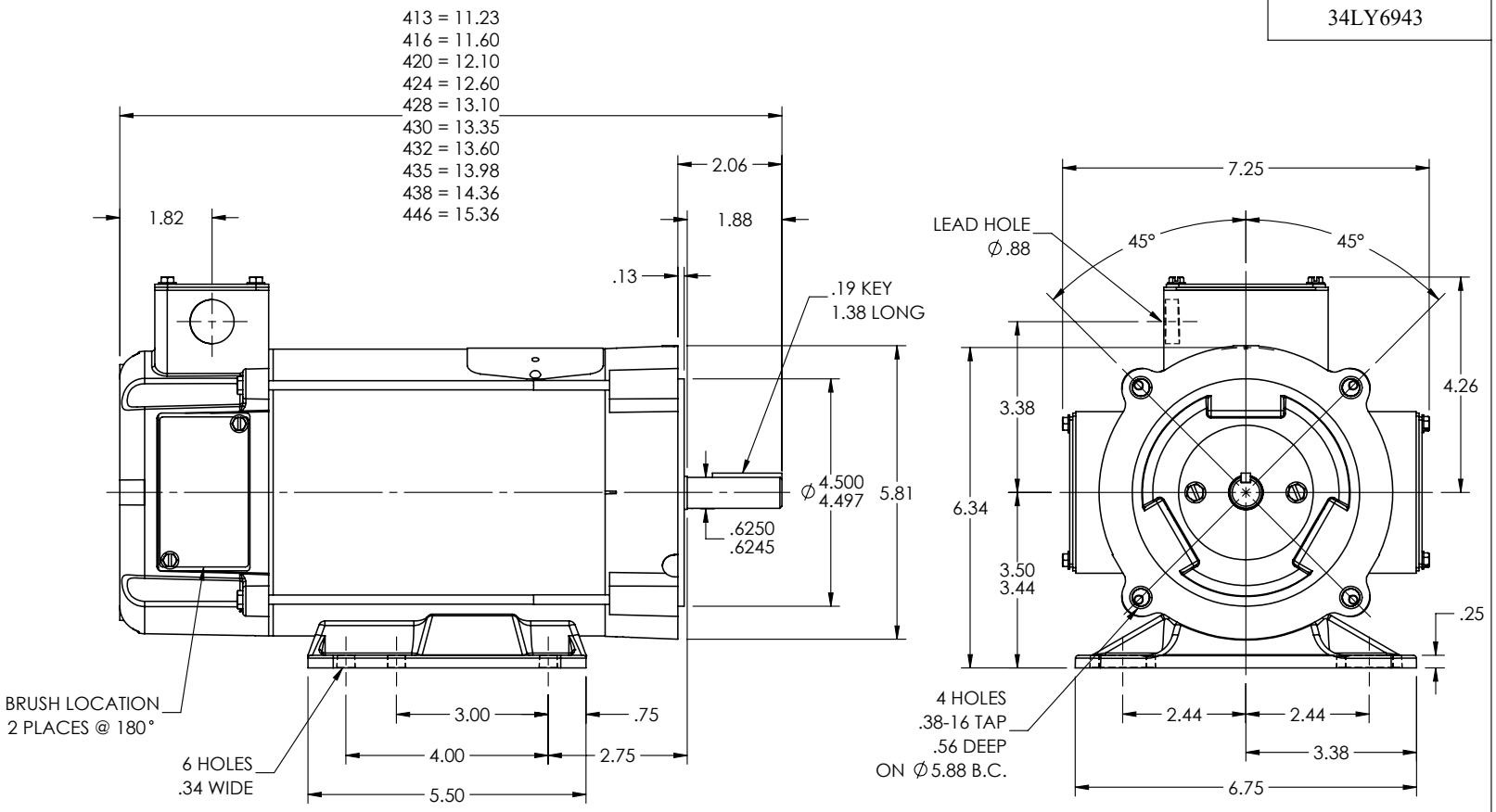


ABB Motors and Mechanical Inc.
WINDING # 34WGZ608
0.33 HP DC 1800 RPM 12 V 3416P
ENCL: TENV DUTY: CONT CL: F
Typical performance - not guaranteed values.
RPM
ARM AMPS
HP
EFF
%EFF
OUTPUT HP
RPM
ARM AMPS
FULL LOAD
TORQUE (LB-FT)
9/7/2026, DCPERF, VER 2.0.06, record 503

34LY6943



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

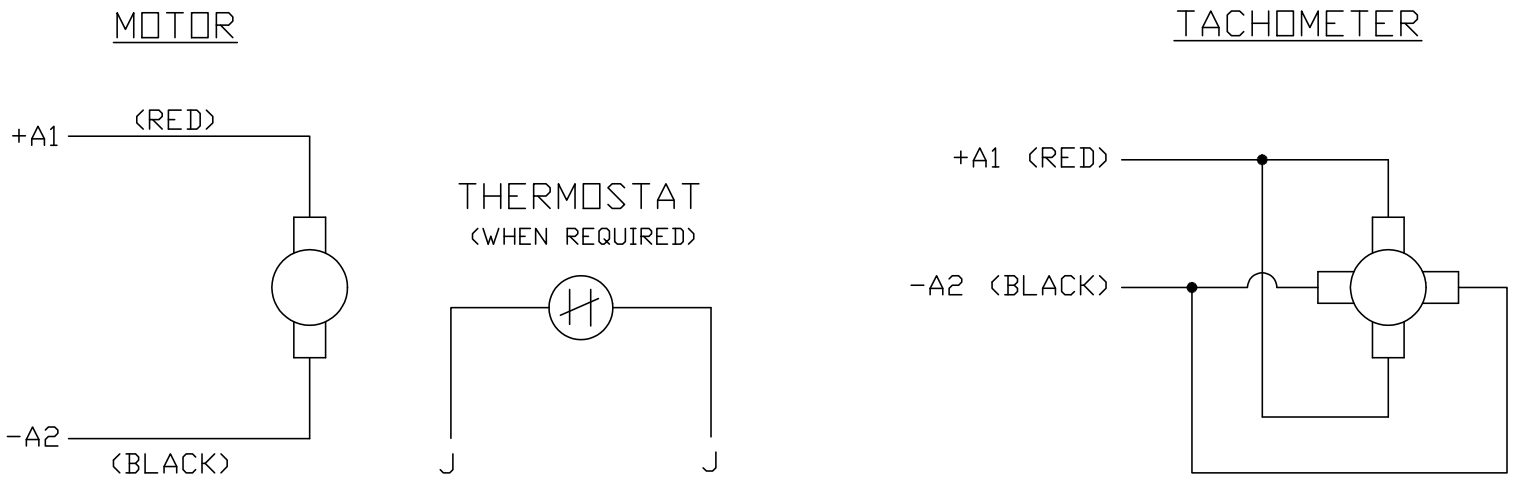
REV. DESC: LOAD TO SOLIDWORKS - REV H			
REV: J	VERSION: 08	REVISED: 10:07:54 01/04/2023	TDR: 000001201165
34LY6943	MODEL NO. 34LY6943		REF: -
	BY: ENFRAJ0		

BALDOR - RELIANCE®

STD HORZ 34PM NEMA 56C TENV (HI DEMAG MOTOR) LOW VOLTS

34LY6943

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	