ABB BALDOR RELIANCE

Customer information packet

CDP3410-V24

.25HP, 1800RPM, DC, 56C, 3416P, TENV, F1
Class - None
Division -

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/23/2026 3:49:12 AM

Specifications

Armature Voltage	24 V
Base Speed	1800 rpm
Enclosure	TENV
Frame	56C
Frame Material	Steel
Haz Area Class and Group	None
Output Power	0.250 HP
Agency Approvals	CSA
	UR
Ambient Temperature	40 °C
Armature Current	10.6 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	J
Type	DC
Mech. spec.	34-6943
Base	
Status	PRD/A
Elec. spec.	34WGZ610
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.	CDP3410-V24				
SPEC.	34-6943Z610G1				
HP	.25		**ENCL**	TENV	
RPM	1800				
FRAME	56C	**TYPE**	3416P		
ARM V	24		**ARM A**	10.6	
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 # 504
Typical performance - not guaranteed values

Winding: 34WGZ610-R002	**Type:** 3416P	**Enclosure:** TENV

Nameplate Data	
Rated Output (HP)	0.25
R.P.M.	1800
Armature Volts	24
Armature Amps	10.6
Field Volts	
Field Amps	
Rating - Duty	40C AMB-CONT
Power Supply Code	A

General Characteristics	
Armature Resistance @ 25ºC	0.129 Ω
Voltage Constant	13.01 v/krpm
Armature Inductance	0.936 mH
Armature Inertia	5.5096 LI²

Load Characteristics at 24 Armature Volts

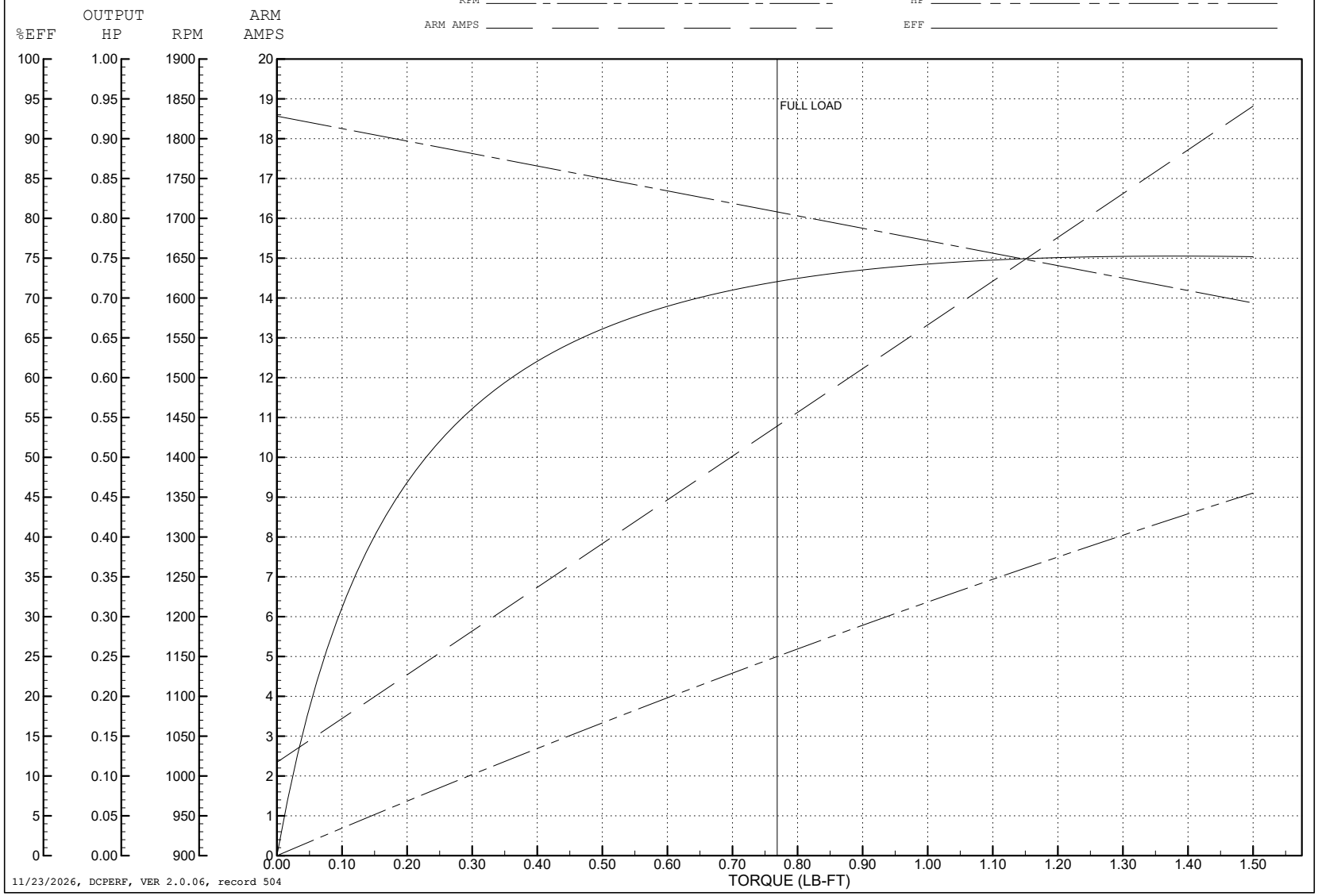
Load Point	**1**	**2**	**3**	**4**	**5**	**6**	**7**
Armature Amps	2.4	5.05	7.74	10.65	13.4	16.01	18.82
R.P.M.	1825	1795	1753	1707	1666	1635	1596
Torque (LB-FT)	0	0.25	0.5	0.75	1	1.25	1.5

ABB Motors and Mechanical Inc.

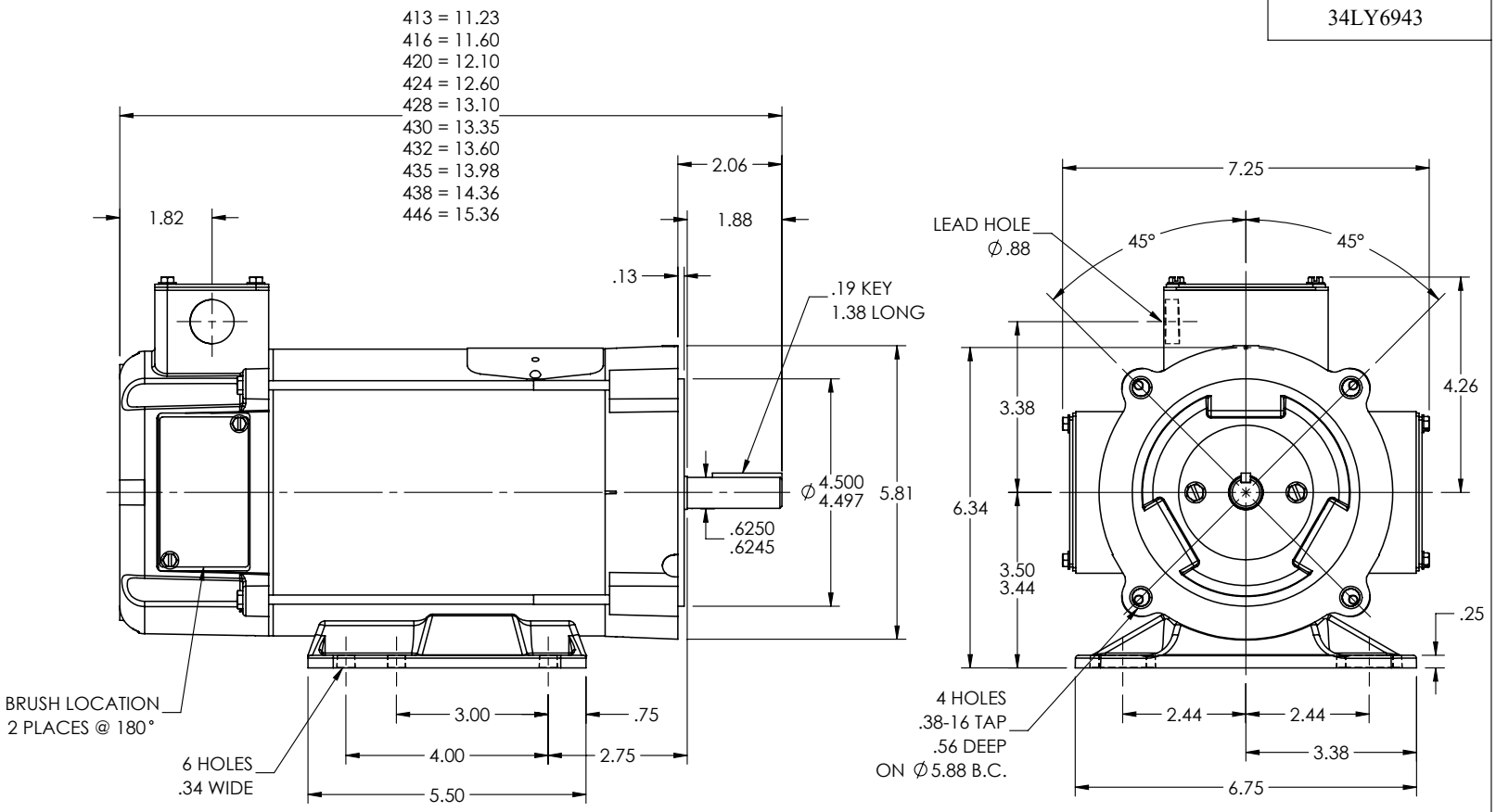
WINDING # 34WGZ610

Typical performance - not guaranteed values.

0.25 HP DC 1800 RPM 24 V 3416P
ENCL: TENV DUTY: CONT CL: F



34LY6943



34LY6943

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

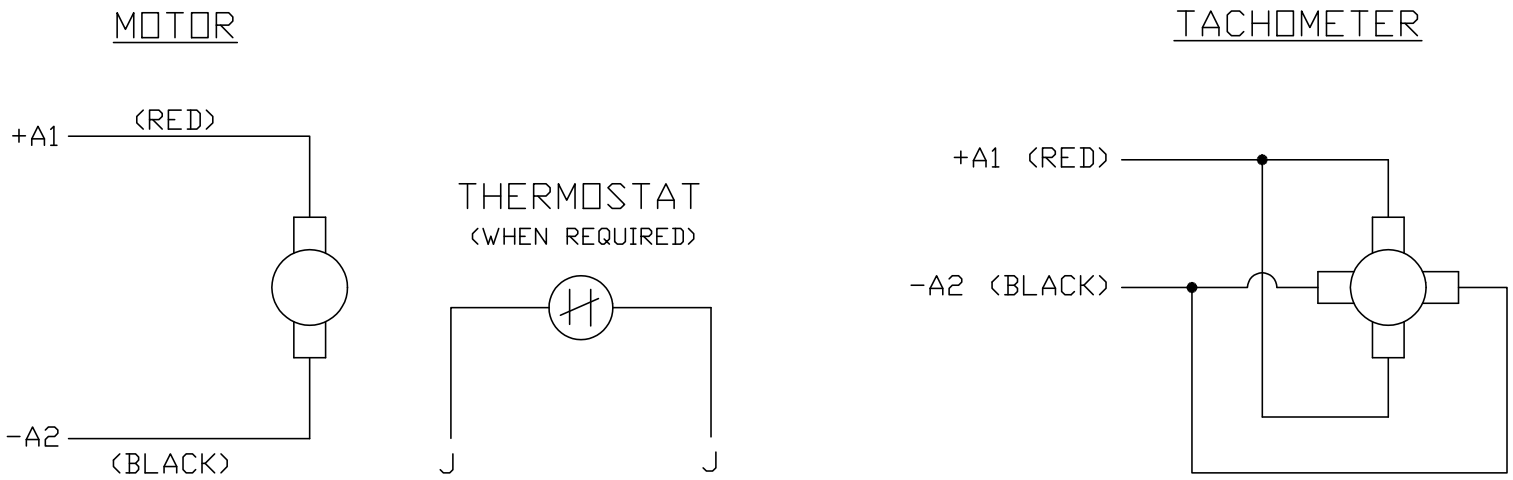
REV. DESC: LOAD TO SOLIDWORKS - REV H			
REV: J	VERSION: 08	REVISED: 10:07:54 01/04/2023	TDR: 000001201165
34LY6943	MODEL NO. 34LY6943		REF: -
	BY: ENFRAJ0		

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	