

ABB BALDOR RELIANCE III

Customer information packet

VDP3445

1HP, 1750RPM, DC, 56C, 3435P, TEFC, F1, N

Class - None

Division -

Specifications

Armature Voltage	90 V
Base Speed	1750 rpm
Enclosure	TEFC
Frame	56C
Frame Material	Steel
Haz Area Class and Group	None
Output Power	1.000 HP
Ambient Temperature	40 °C
Armature Current	10.0 a
Armature Inertia	13.657 lb-ft ²
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Drip Cover	No Drip Cover
Duty Rating	CONT
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
Insulation Class	F
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	15.47 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
Shaft Rotation	Reversible

Part Detail

Revision	K
Type	DC
Mech. spec.	34-6244
Base	
Status	PRD/A
Elec. spec.	34WG3675
Layout	34LY6244
Eff. date	10-25-2024
CD Diagram	CD0194
Poles	00
Leads	
Proprietary	False
Created date	01-24-2018

Shaft Slinger Indicator

No Slinger

Nameplate

NP0891L					
CAT.NO.	VDP3445				
SPEC.	34-6244-3675G1				
HP	1/KW.75	ENCL	TEFC		
RPM	1750 1/MIN				
FRAME	56C	TYPE	3435P		
ARM V	90	ARM A	10		
FLD V		FLD A			
INSUL	F	AMB.	40		
DUTY	CONT	SUPPLY	1.5		
BRG/DE	6203	BRG/ODE	6203		
BRUSHES	2/BP5000BK08				
		BLANK			
SER.					
BLANK	IP44 KG21 IC411				
APRV-CE	Y	APRV-CSA	Y	APRV-UL	Y

DC Motor Performance Data

Record # 325

Typical performance - not guaranteed values

Winding: 34WG3675-R001		Type: 3435P	Enclosure: TEFC
Nameplate Data		General Characteristics	
Rated Output (HP)	1	Armature Resistance @ 25°C	0.537 Ω
R.P.M.	1750		
Armature Volts	90		
Armature Amps	10		
Field Volts			
Field Amps			
Rating - Duty	40C AMB-CONT		
Form Factor	1.5		

Load Characteristics at 90 Armature Volts

Load Point	1	2	3	4	5	6
Armature Amps	0.5	5	7.2	9.65	11.7	14.2
R.P.M.	1853	1758	1727	1711	1642	1604
Torque (LB-FT)	0	1.5	2.25	3	3.75	4.5

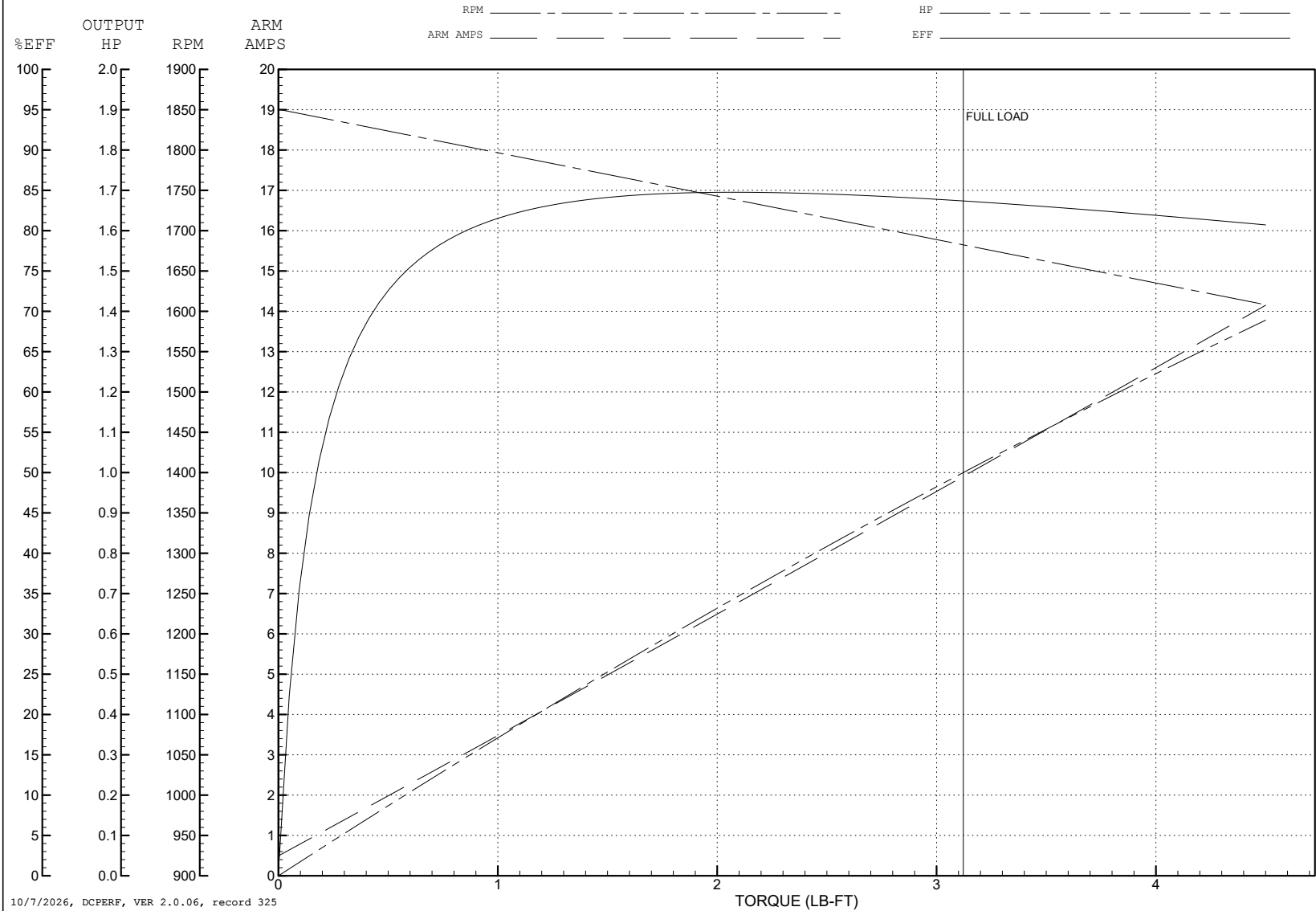
ABB Motors and Mechanical Inc.

WINDING # 34WG3675

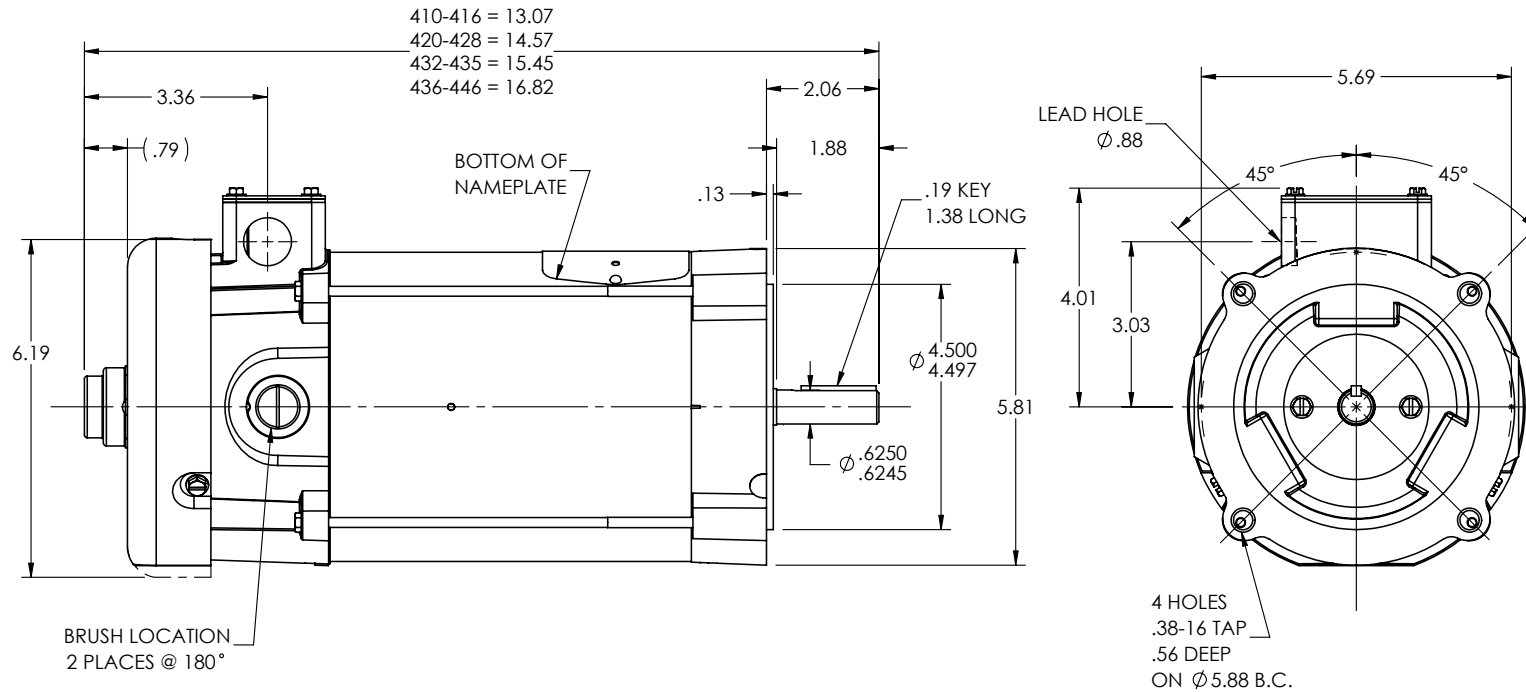
Typical performance - not guaranteed values.

1 HP DC 1750 RPM 90 V 3435P

ENCL: TEFC DUTY: CONT CL: F



34LY6244



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

REV. DESC: LOAD TO SOLIDWORKS - REV D

REV: E

VERSION: 02

REVISED: 08:21:32 04/28/2023

TDR: 000001201165

BALDOR - RELIANCE®

34LY6244

MODEL NO. 34LY6244

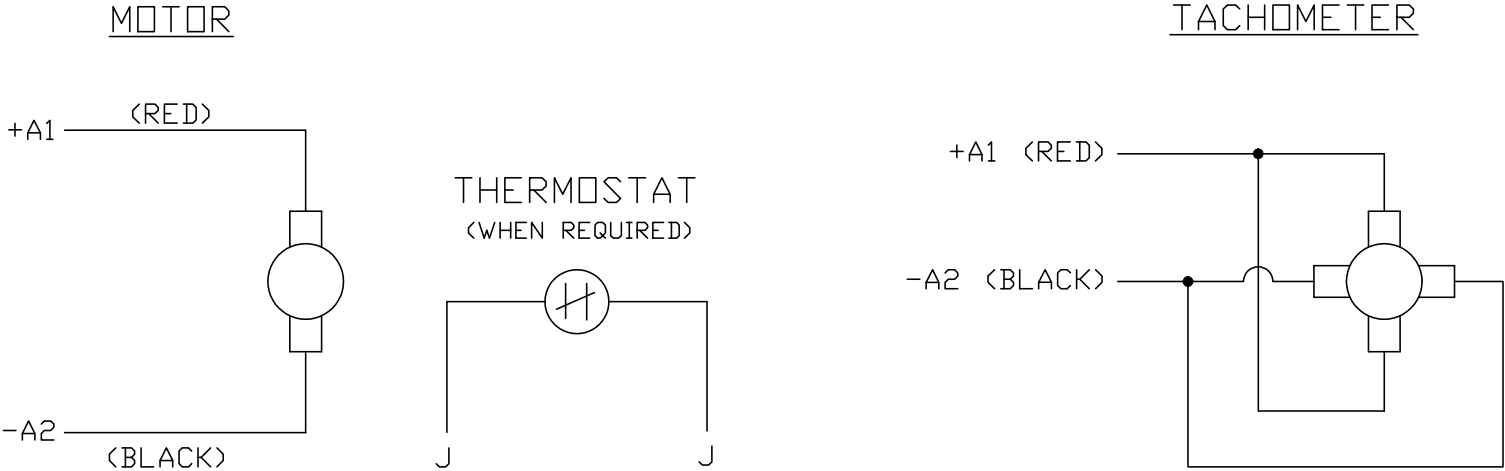
REF: -

BY: ENFRAJ0

STD VERT 34PM NEMA 56C W/MFTK & EXT THRU BOLTS

34LY6244

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 &..."

CD0194

SCALE: -

BY: CK

REVISED: 07/28/95

FILE: AAA00004503

TDR: 0078737

BALDOR ELECTRIC Co.

CD TYPE P DC PERMANENT MAGNET MOTORS AND TACHOMETERS

CD0194