

**BALDOR® • RELIANCE™**

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# Customer information packet

## CDPWD3445

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

Class - None

Division -

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6/9/2025 3:59:52 AM

## 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
Agency Approvals	CE CSA UR
Ambient Temperature	40 °C
Armature Current	10.0 a
Armature Inertia	13.657 lb-ft <sup>2</sup>
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, A
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	15.46 IN
Product Family	Wash Down
Pulley End Bearing Type	Sealed Bearing
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End

## Part detail

Revision	AS
Type	DC
Mech. spec.	34-6418
Base	
Status	PRD/A
Elec. spec.	34WG3675
Layout	34LY6418
Eff. date	08-20-2024
CD Diagram	CD0194
Poles	00
Leads	2#14 A Y
Proprietary	False
Created date	01-01-0001

**Shaft Ground Indicator**

No Shaft Grounding

**Shaft Rotation**

Reversible

**Shaft Slinger Indicator**

Shaft Slinger

**Nameplate**

<b>NP1509</b>			
<b>CAT.NO.</b>	CDPWD3445		
<b>SPEC.</b>	34-6418-3675		
<b>HP</b>	1	<b>ENCL</b>	TEFC
<b>RPM</b>	1750 1/MIN		
<b>FRAME</b>	56C	<b>TYPE</b>	3435P
<b>ARM V</b>	90	<b>ARM A</b>	10
<b>FLD V</b>		<b>FLD A</b>	
<b>INSUL</b>	F	<b>AMB.</b>	40
<b>DUTY</b>	S1 CONT	<b>SUPPLY</b>	1.5
<b>BRG/DE</b>	6203	<b>BRG/ODE</b>	6203
<b>BRUSHES</b>	2/BP5000BK08		
		<b>BLANK</b>	IP55
<b>SER.</b>			
<b>BLANK</b>	KW.74 KG20 IC411		
<b>APRV-CSA</b>	Y	<b>APRV-UL</b>	Y
		<b>APRV-CE</b>	Y

**DC Motor Performance Data**

Record # 325

Typical performance - not guaranteed values

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

**Load Characteristics at 90 Armature Volts**

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

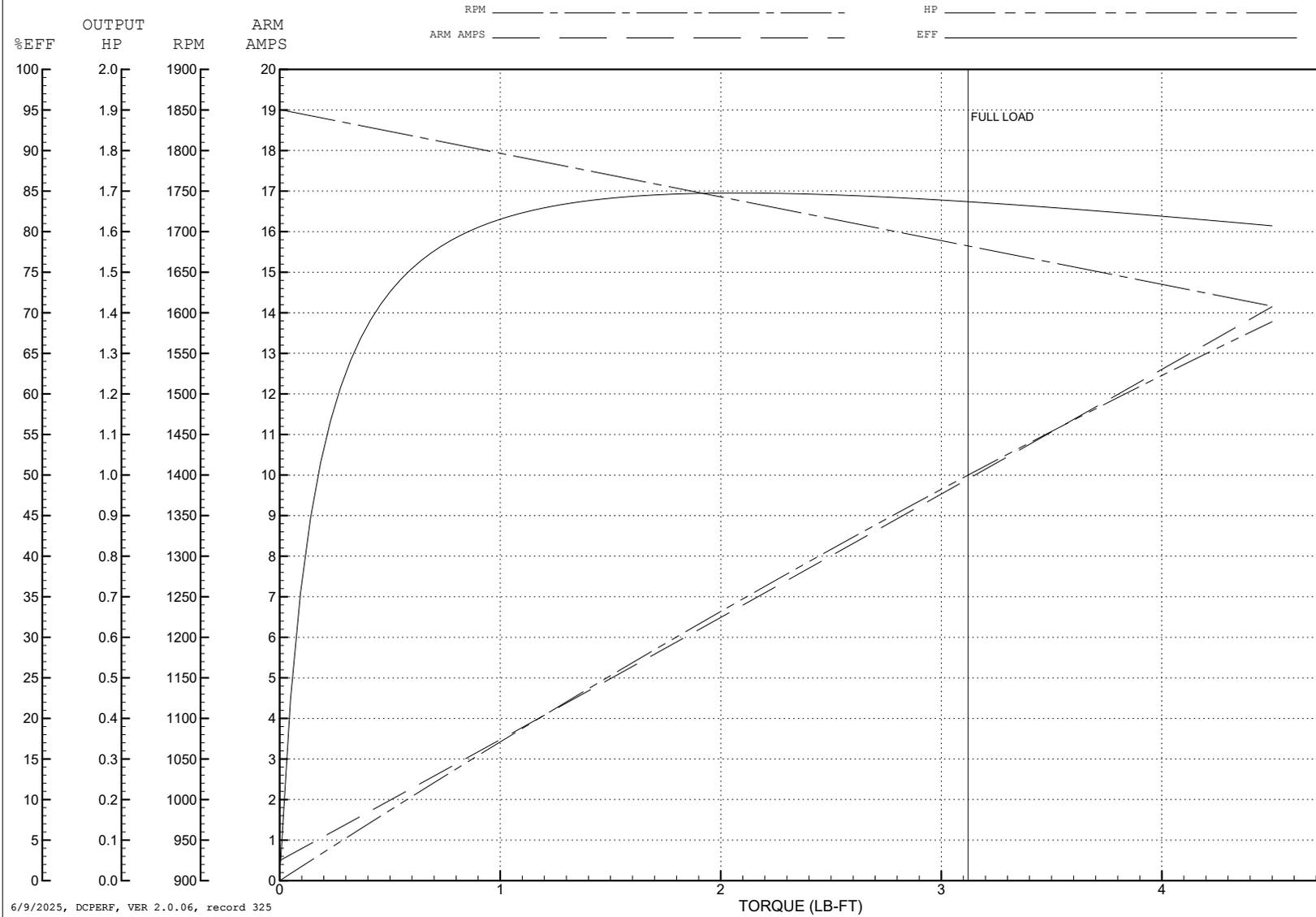
ABB Motors and Mechanical Inc.

WINDING # 34WG3675

Typical performance - not guaranteed values.

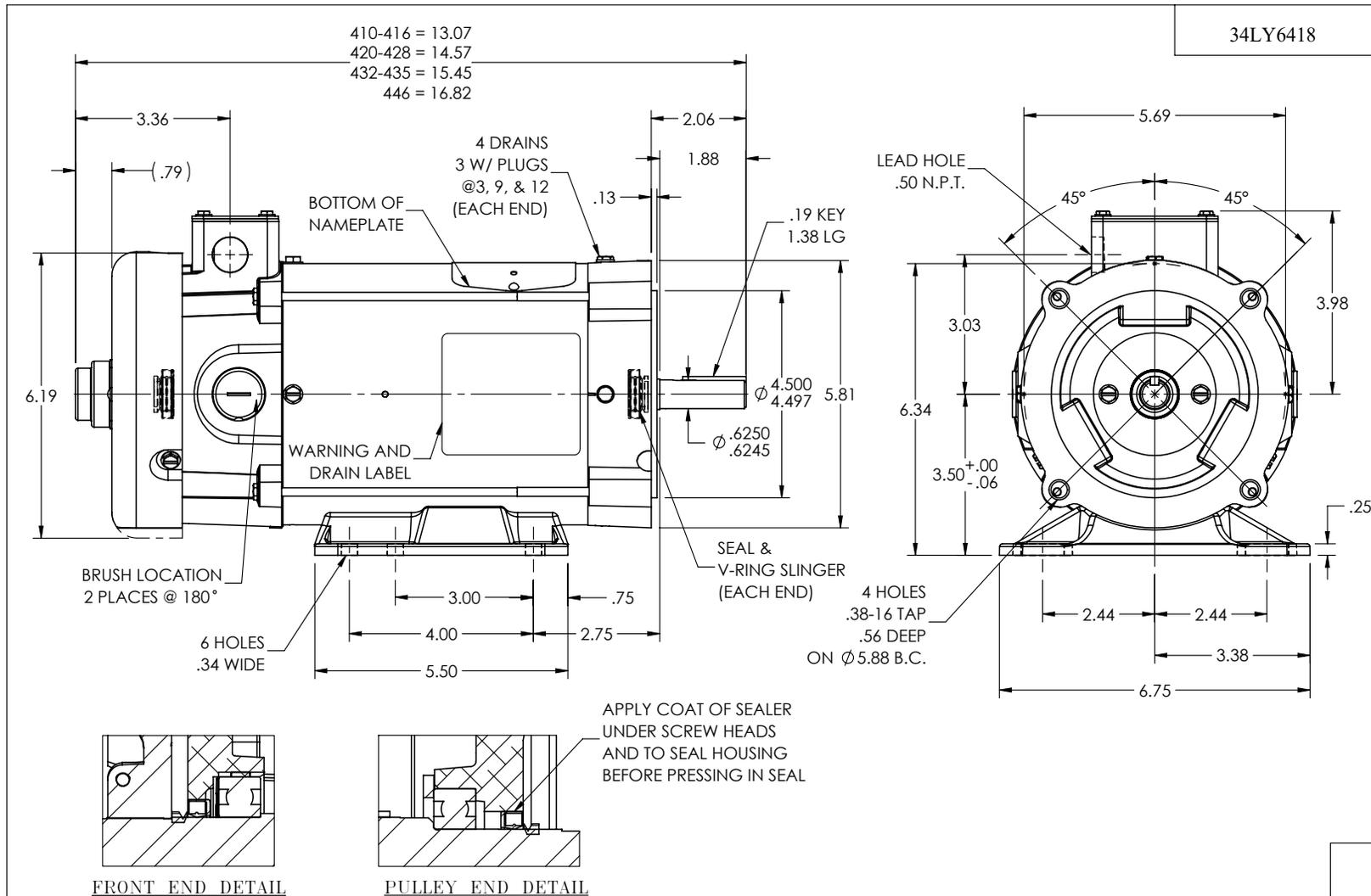
1 HP DC 1750 RPM 90 V 3435P

ENCL: TEFC DUTY: CONT CL: F



6/9/2025, DCPERF, VER 2.0.06, record 325

34LY6418



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

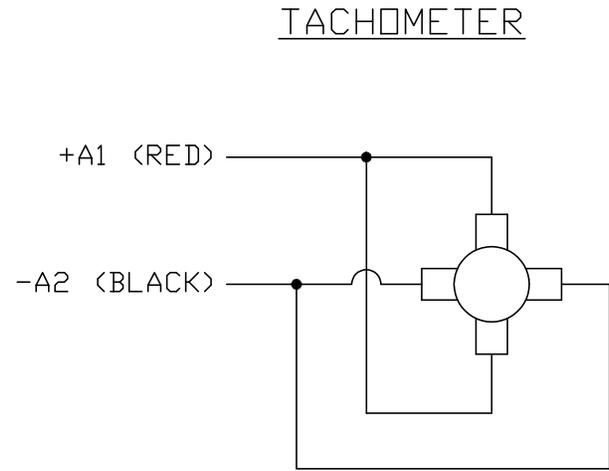
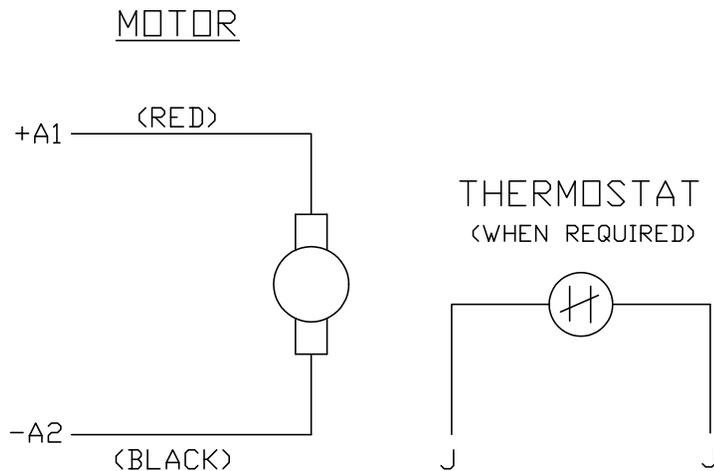
REV. DESC: LOAD TO SOLIDWORKS - REV L			
REV: M	VERSION: 05	REVISED: 10:00:26 12/27/2022	TDR: 000001201165
34LY6418	MODEL NO. 34LY6418	REF: -	
	BY: ENFRAJ0		

**BALDOR - RELIANCE®**

HORZ 34PM NEMA 56C TEFC WD (S/P009-000-004) W/MFTK

34LY6418

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 &..."		
761000	SCALE: -	BY: CK	REVISED: 07/28/95
	FILE: AAA00004503	TDR: 0078737	

**BALDOR ELECTRIC Co.**

CD TYPE P DC PERMANENT MAGNET MOTORS AND TACHOMETERS

CD0194