ABB BALDOR RELIANCE

Customer information packet

CDPWD3445

1HP, 1750RPM, DC, 56C, 3435P, TEFC, F1
Class - None
Division -

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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-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, 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	AT
Type	DC
Mech. spec.	34-6418
Base	
Status	PRD/A
Elec. spec.	34WG3675
Layout	34LY6418
Eff. date	06-19-2025
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

NP1509							
CAT.NO.	CDPWD3445						
SPEC.	34-6418-3675						
HP	1		**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	S1 CONT		**SUPPLY**	1.5			
BRG/DE	6203		**BRG/ODE**	6203			
BRUSHES	2/BP5000BK08						
			BLANK	IP55			
SER.							
BLANK	KW.74 KG20 IC411						
APRV-CSA	Y	**APRV-UL**	Y	**APRV-CE**	Y		

DC Motor Performance Data
Record # 325
Typical performance - not guaranteed values

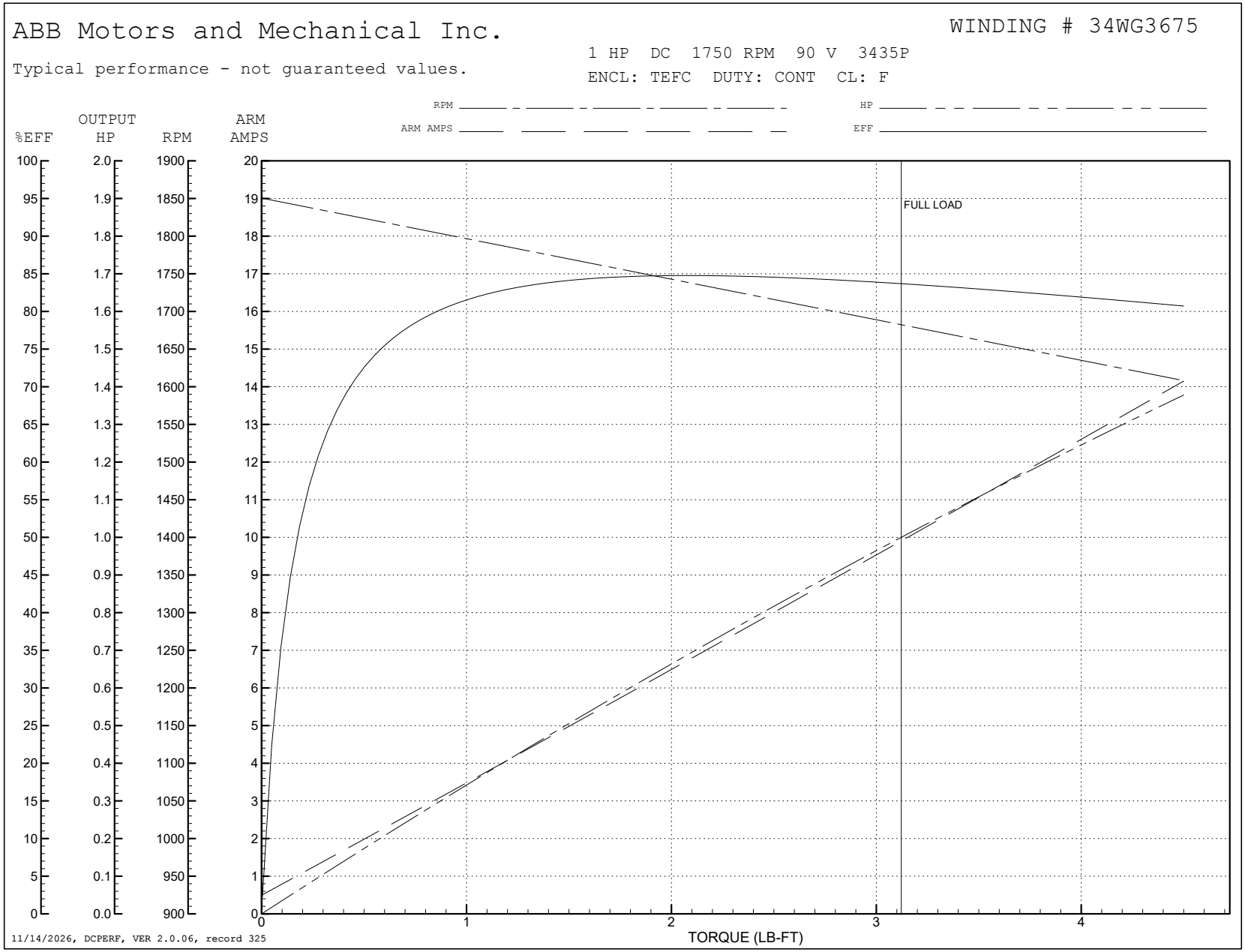
Winding: 34WG3675-R001	**Type:** 3435P	**Enclosure:** TEFC

Nameplate Data	
Rated Output (HP)	1
R.P.M.	1750
Armature Volts	90
Armature Amps	10
Field Volts	
Field Amps	
Rating - Duty	40C AMB-CONT
Form Factor	1.5

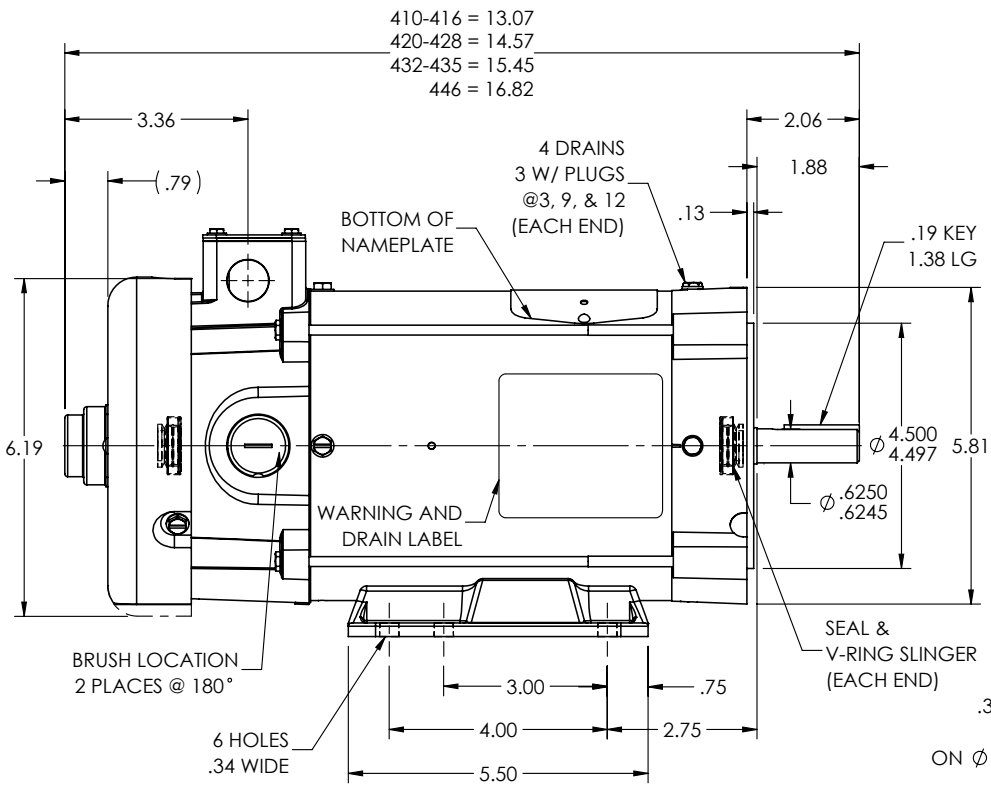
General Characteristics	
Armature Resistance @ 25ºC	0.537 Ω

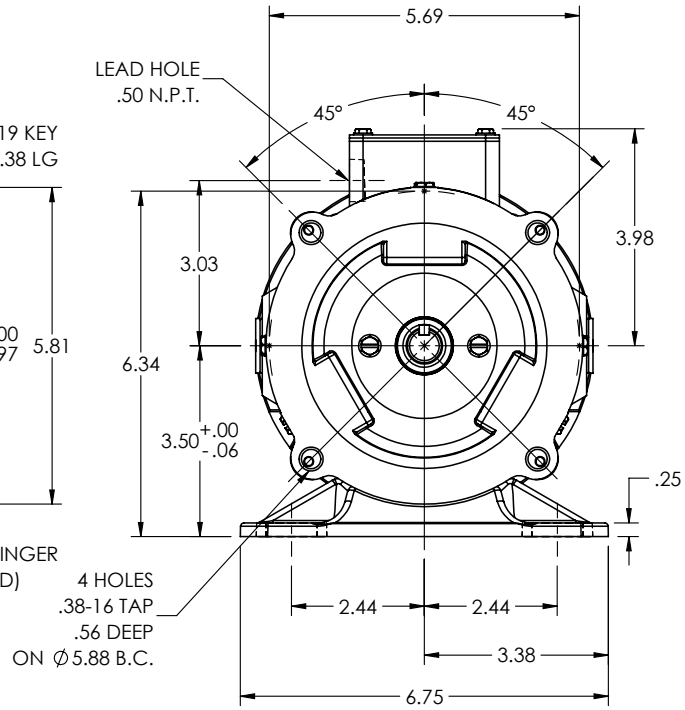
Load Characteristics at 90 Armature Volts

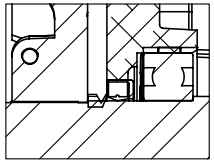
Load Point	**1**	**2**	**3**	**4**	**5**	**6**
Armature Amps	0.5	5	7.2	9.65	11.7	14.2
R.P.M.	1853	1758	1727	1711	1642	1604
Torque (LB-FT)	0	1.5	2.25	3	3.75	4.5


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
RPM
ARM AMPS
HP
EFF
%EFF
OUTPUT HP
RPM
ARM AMPS
FULL LOAD
TORQUE (LB-FT)
11/14/2026, DCPERF, VER 2.0.06, record 325

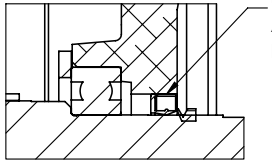
34LY6418







FRONT END DETAIL



PULLEY END DETAIL

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

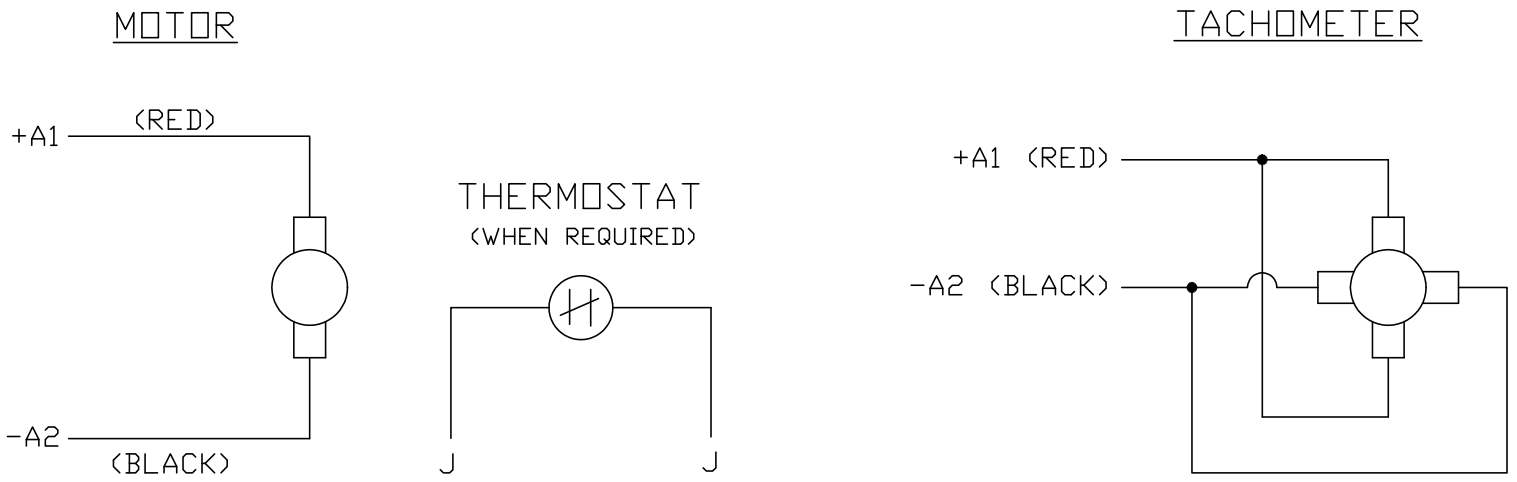
REV. DESC: LOAD TO SOLIDWORKS - REV L			
REV: M	VERSION: 05	REVISED: 10:00:26 12/27/2022	TDR: 000001201165
34LY6418	MODEL NO. 34LY6418		REF: -
	BY: ENFRAJ0		

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.

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	