ABB BALDOR RELIANCE

Customer information packet

CDPT3445

1HP, 1750RPM, DC, 56C, 3435P, TEFC, F1, N
Class - None
Division - Not Applicable

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11/26/2026 10:22:24 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
	WEEE
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	TACHOMETER
Haz Area Division	Not Applicable
Heater Indicator	No Heater
Insulation Class	F
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	2 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	17.52 IN
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
RoHS Status	ROHS COMPLIANT
Service Factor	1.00

Part Detail

Revision	D
Type	DC
Mech. spec.	34-7842
Base	
Status	PRD/A
Elec. spec.	34WG3675
Layout	34LY7842
Eff. date	10-25-2024
CD Diagram	CD0194
Poles	00
Leads	
Proprietary	False
Created date	06-19-2019

Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger

Nameplate

NP0891L					
CAT.NO.	CDPT3445				
SPEC.	34-7842-3675				
HP	1/KW .74	**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 KG22 IC411				
APRV-CE	Y	**APRV-CSA**	Y	**APRV-UL**	Y

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

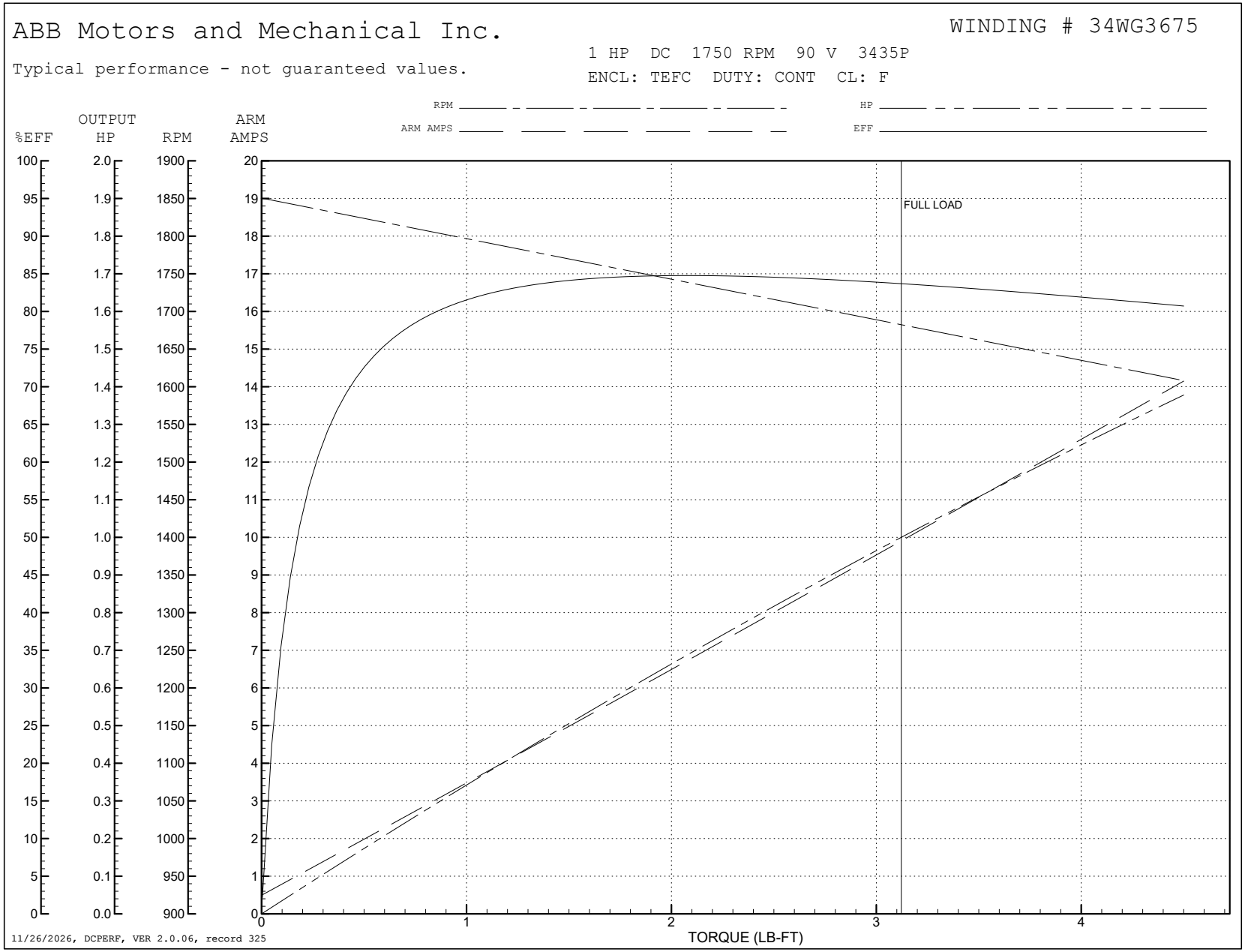
Winding: 34WG3675-R001	**Type:** 3435P	**Enclosure:** TEFC

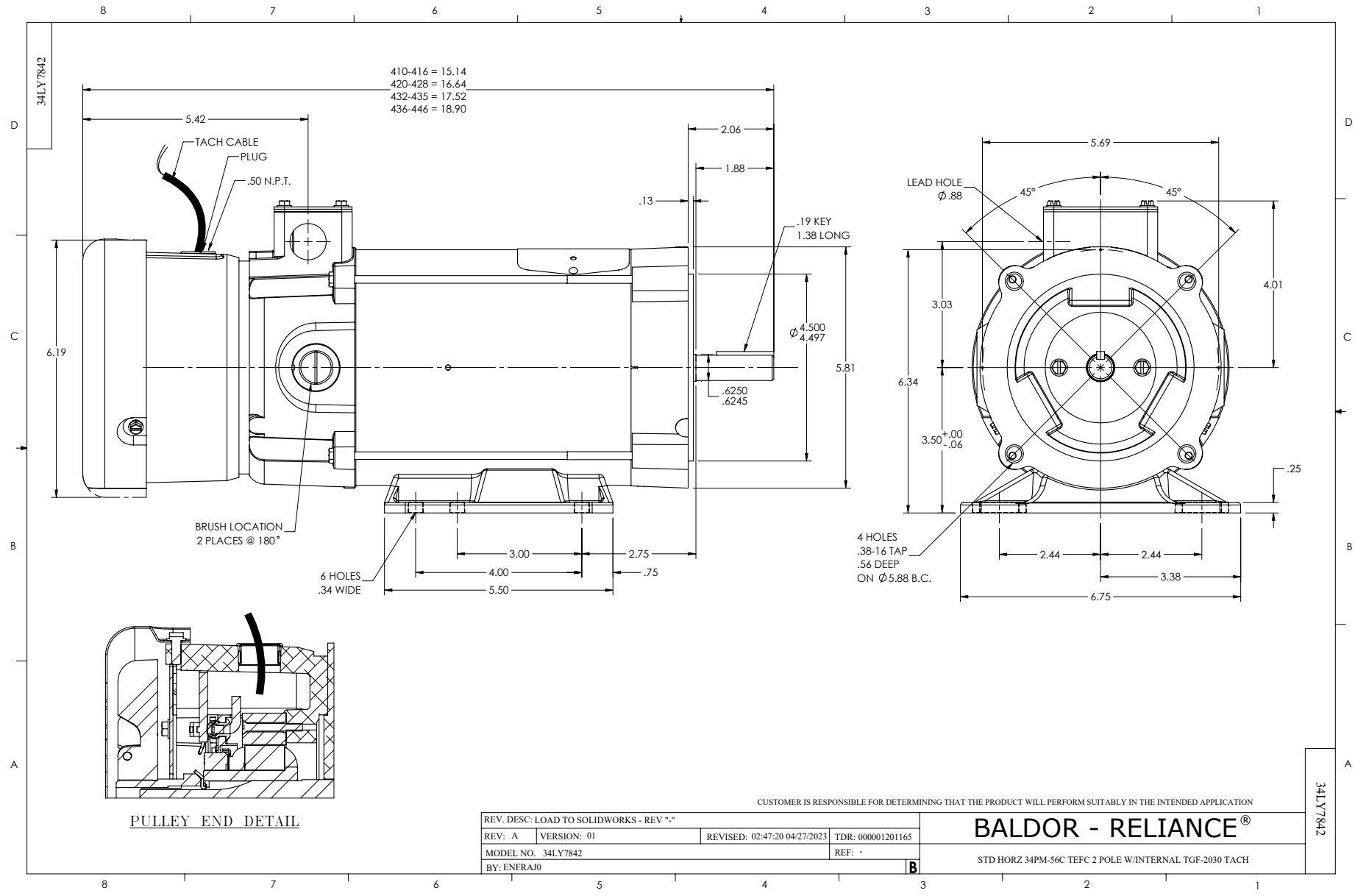
Nameplate Data	
Rated Output (HP)	1
R.P.M.	1750
Armature Volts	90
Armature Amps	10
Field Volts	
Field Amps	
Rating - Duty	40C AMB-CONT
Form Factor	1.5

General Characteristics	
Armature Resistance @ 25ºC	0.537 Ω

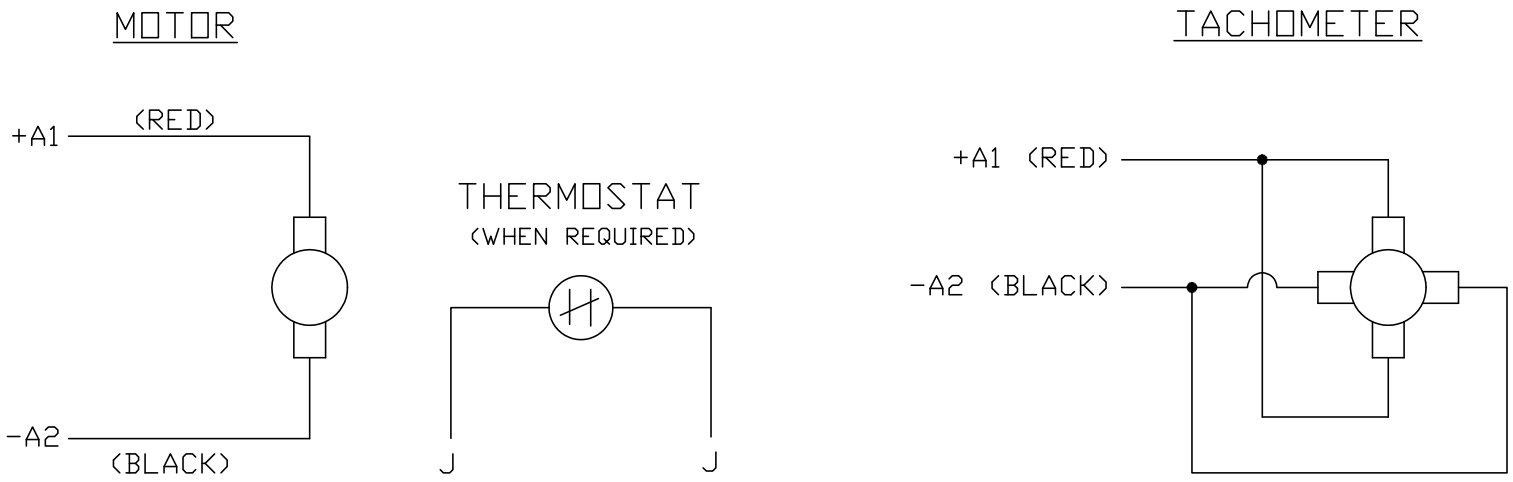
Load Characteristics at 90 Armature Volts

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)
11/26/2026, DCPERF, VER 2.0.06, record 325


34LY7842
410-416 = 15.14
420-428 = 16.64
432-435 = 17.52
436-446 = 18.90
5.42
TACH CABLE
PLUG
.50 N.P.T.
2.06
1.88
.13
.19 KEY
1.38 LONG
6.19
Ø 4.500
4.497
5.81
.6250
.6245
BRUSH LOCATION
2 PLACES @ 180°
6 HOLES
.34 WIDE
3.00
2.75
4.00
.75
5.50
5.69
LEAD HOLE
Ø .88
45°
45°
4.01
3.03
6.34
3.50 +.00 -.06
.25
4 HOLES
.38-16 TAP
.56 DEEP
ON Ø 5.88 B.C.
2.44
2.44
3.38
6.75
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD TO SOLIDWORKS - REV "-"
REV: A
VERSION: 01
REVISED: 02:47:20 04/27/2023
TDR: 000001201165
MODEL NO. 34LY7842
REF: -
BY: ENFRAJ0
B
BALDOR - RELIANCE®
STD HORZ 34PM-56C TEFC 2 POLE W/INTERNAL TGF-2030 TACH
34LY7842

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	