ABB BALDOR RELIANCE

Customer information packet

VP3585-14

1.5/2HP, 1750RPM, DC, D90C, 3548P, TEFC, F2
Class - None
Division -

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11/17/2026 3:55:00 PM

Specifications

Armature Voltage	180 V
Base Speed	1750 rpm
Enclosure	TEFC
Frame	D90C
Frame Material	Steel
Haz Area Class and Group	None
Output Power	2.000 HP
Agency Approvals	CE
	CSA
	UR
Ambient Temperature	40 °C
Armature Current	9.6 a
Armature Inertia	40.456 lb-ft2
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Drip Cover	No Drip Cover
Duty Rating	CONT
Feedback Device	NO FEEDBACK
Frame Prefix	D
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	IEC
Mounting Arrangement	B34
Overall Length	18.69 IN
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Service Factor	1.00
Shaft Diameter	0.945 IN
Shaft Extension Location	Pulley End

Part Detail

Revision	AM
Type	DC
Mech. spec.	35P454
Base	
Status	PRD/A
Elec. spec.	35WGZ170
Layout	35LYP454
Eff. date	10-28-2024
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	No Slinger

Nameplate

NP1049L					
CAT.NO.	VP3585-14				
SPEC.	35P454Z170				
KW/HP	1.5/2 TE		**I.P.**	54	
RPM	1750 TE				
IEC FRAME	D90C	**TYPE**	3548P		
ARM V	180		**ARM A**	9.6	
FLD V			**FLD A**		
INSUL	F	**AMB.**	40		
DUTY	CONT		**SUPPLY**	K	
BRG/DE	6206	**BRG/ODE**	6205		
BRUSHES	2/BP5000T15				
			BLANK		
SER.					
BLANK	1/MIN IC411 36KG				
APRV-CE		**APRV-CSA**		**APRV-UL**	

Accessories

Part number	Description	Multiplier
TK3500	TACHO MOUTING KIT TK3500	A8

DC Motor Performance Data
Record # 2081
Typical performance - not guaranteed values

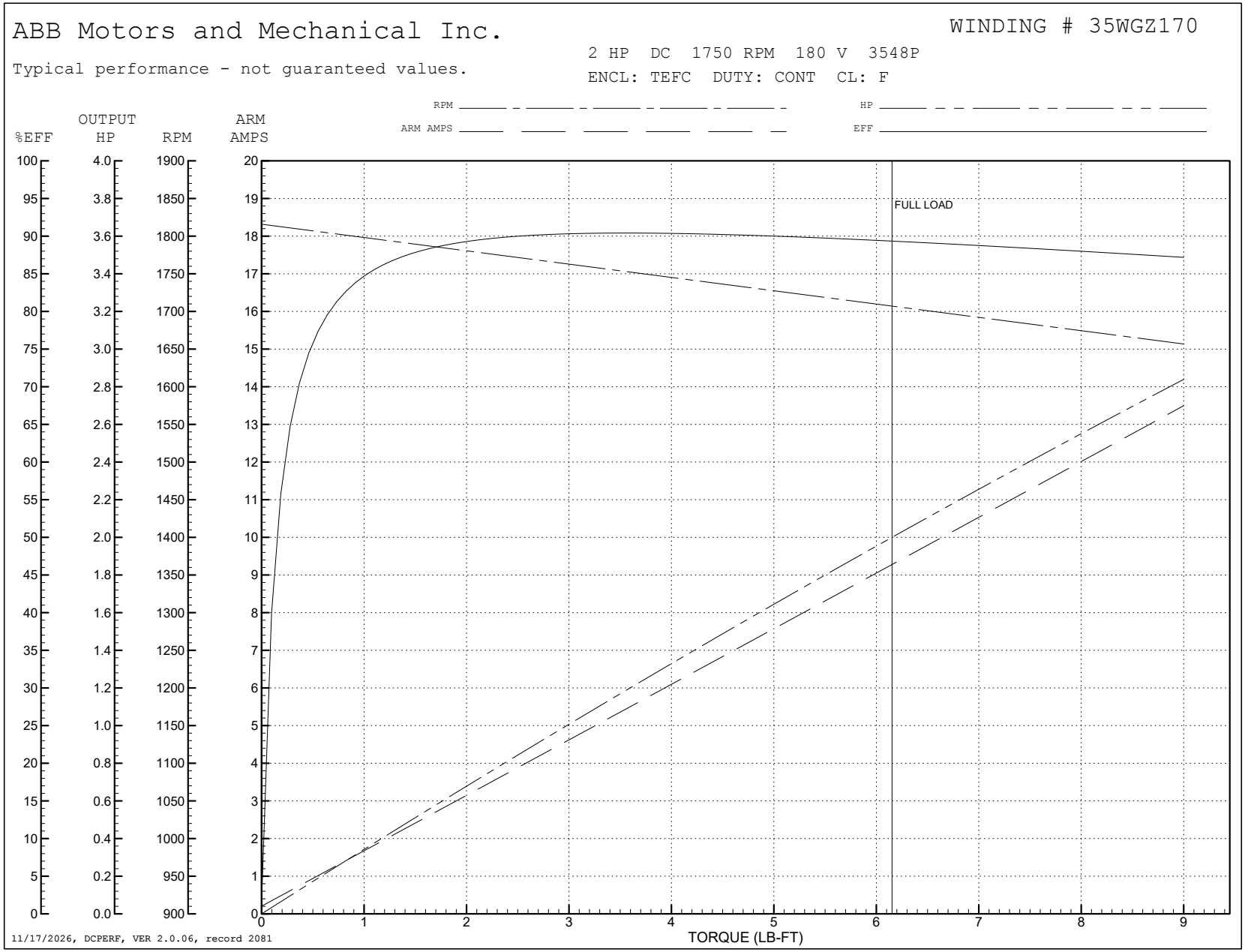
Winding: 35WGZ170-R001	**Type:** 3548P	**Enclosure:** TEFC

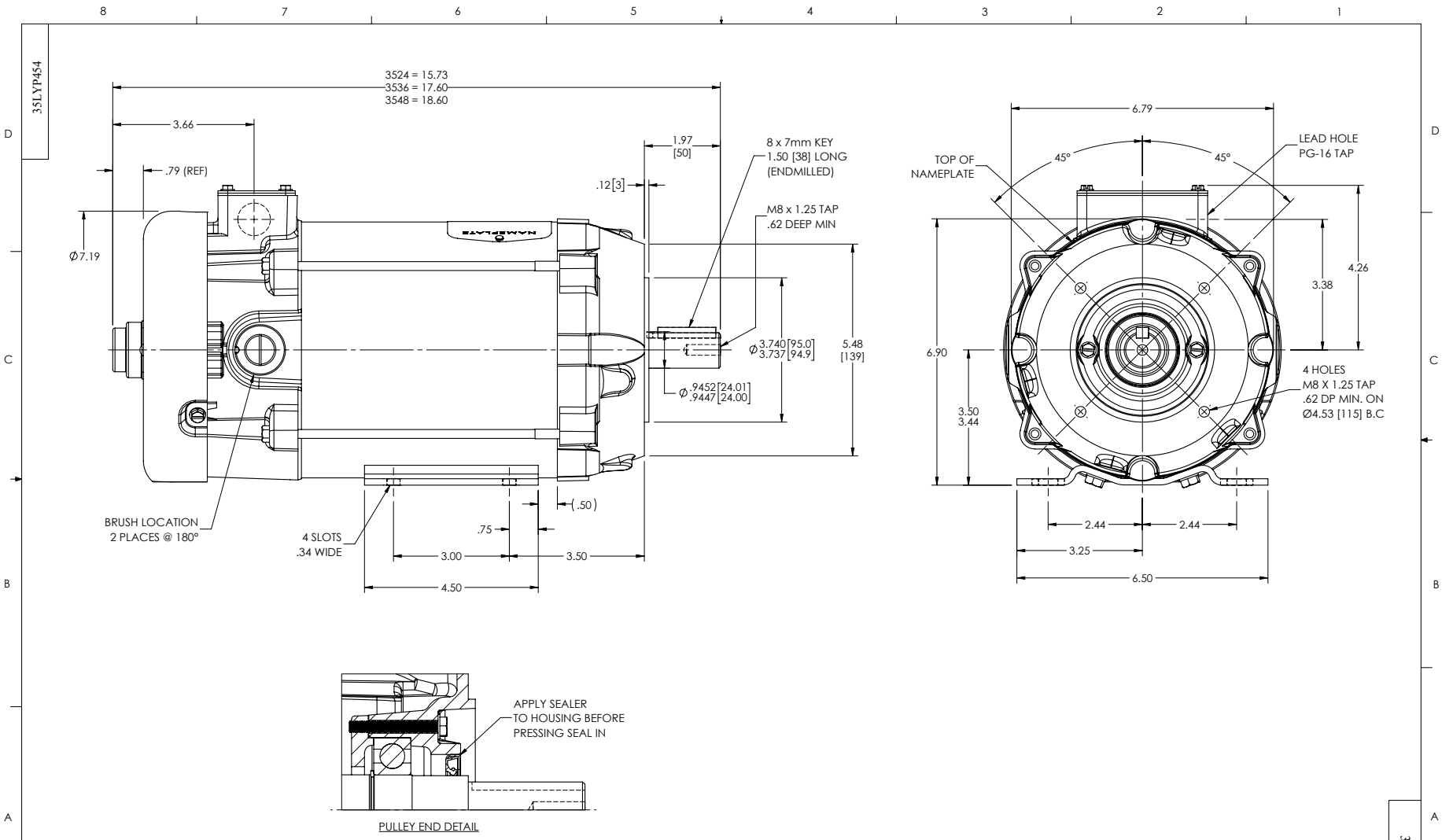
Nameplate Data	
Rated Output (HP)	2
R.P.M.	1750
Armature Volts	180
Armature Amps	9.6
Field Volts	
Field Amps	
Rating - Duty	40C AMB-CONT
Power Supply Code	K

General Characteristics	
Armature Resistance @ 25ºC	0.8093 Ω
Voltage Constant	98.25 v/krpm
Armature Inductance	11.508 mH
Armature Inertia	40.456 LI²

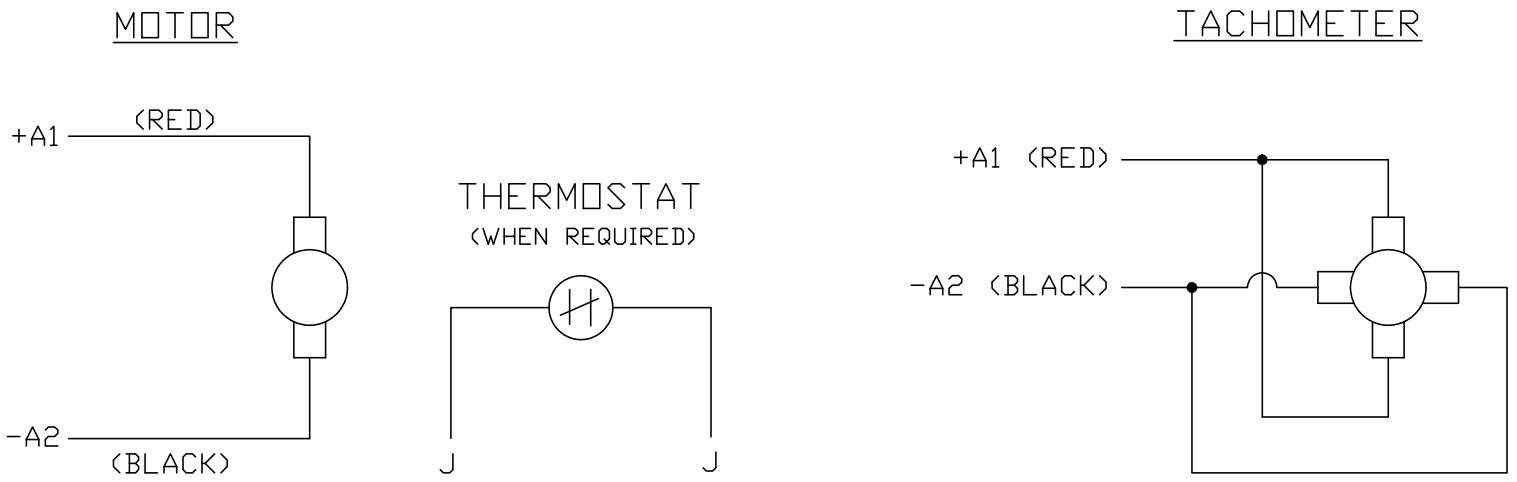
Load Characteristics at 180 Armature Volts

Load Point	**1**	**2**	**3**	**4**	**5**	**6**	**7**
Armature Amps	0.2	2.4	4.7	6.8	9	11.3	13.5
R.P.M.	1806	1796	1770	1741	1707	1671	1663
Torque (LB-FT)	0	1.5	3	4.5	6	7.5	9


ABB Motors and Mechanical Inc.
WINDING # 35WGZ170
Typical performance - not guaranteed values.
2 HP DC 1750 RPM 180 V 3548P
ENCL: TEFC DUTY: CONT CL: F
RPM
ARM AMPS
HP
EFF
%EFF
OUTPUT HP
RPM
ARM AMPS
FULL LOAD
TORQUE (LB-FT)
11/17/2026, DCPERF, VER 2.0.06, record 2081


35LYP454
3524 = 15.73
3536 = 17.60
3548 = 18.60
3.66
.79 (REF)
Ø7.19
1.97
[50]
.12[3]
8 x 7mm KEY
1.50 [38] LONG
(ENDMILLED)
M8 x 1.25 TAP
.62 DEEP MIN
Ø3.740 [95.0]
3.737 [94.9]
Ø.9452 [24.01]
.9447 [24.00]
5.48
[139]
BRUSH LOCATION
2 PLACES @ 180°
4 SLOTS
.34 WIDE
.75
(.50)
3.00
3.50
4.50
6.79
TOP OF
NAMEPLATE
45°
45°
LEAD HOLE
PG-16 TAP
4.26
3.38
6.90
3.50
3.44
4 HOLES
M8 X 1.25 TAP
.62 DP MIN. ON
Ø4.53 [115] B.C
2.44
2.44
3.25
6.50
APPLY SEALER
TO HOUSING BEFORE
PRESSING SEAL IN
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD BASE TO EDGE OF BAND (REF) DIM
REV: K
VERSION: 05
REVISED: 04:03:38 06/02/2023
TDR: 000001209633
MODEL NO. 35LYP454
REF: -
BY: ENJEFD0
B
BALDOR - RELIANCE®
STD HORZ 35PM IEC D90C B34 TEFC F2 W/SEAL & M.F.T.K.
SH 1 of 1
35LYP454

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	