ABB BALDOR RELIANCE

Customer information packet

VP3588-14

2HP 3000RPM TEFC D90C MOTOR
Class - None
Division -

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Specifications

Armature Voltage	180 V
Base Speed	3000 rpm
Enclosure	TEFC
Frame	D90C
Frame Material	Steel
Haz Area Class and Group	None
Output Power	2.000 HP
Agency Approvals	CSA
	UR
Ambient Temperature	40 °C
Armature Current	10.0 a
Armature Inertia	30.342 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	17.83 IN
Product Family	General Purpose
Pulley End Bearing Type	Ball
Service Factor	1.00
Shaft Diameter	0.945 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding

Part Detail

Revision	Z
Type	DC
Mech. spec.	35P462
Base	
Status	PRD/A
Elec. spec.	35WGZ295
Layout	35LYP462
Eff. date	10-28-2024
CD Diagram	CD0194
Poles	00
Leads	2#14 A Y
Proprietary	False
Created date	01-01-0001

Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger

Nameplate

NP1049L							
CAT.NO.	VP3588-14						
SPEC.	35P462Z295G1						
KW/HP	1.5/2 TE			**I.P.**	44		
RPM	3000 1/MIN						
IEC FRAME	D90C		**TYPE**	PM3536P			
ARM V	180			**ARM A**	10.0		
FLD V				**FLD A**			
INSUL	F		**AMB.**	40C			
DUTY	CONT			**SUPPLY**	K		
BRG/DE	6206		**BRG/ODE**		6205		
BRUSHES	2/BP5000T15						
				BLANK	KG32 IC411		
SER.							
BLANK	IEC60034-1;-5						
APRV-CE	Y	**APRV-CSA**	Y	**APRV-UL**		Y	

Accessories

Part number	Description	Multiplier
TK3500	TACHO MOUTING KIT TK3500	A8

DC Motor Performance Data
Record # 546
Typical performance - not guaranteed values

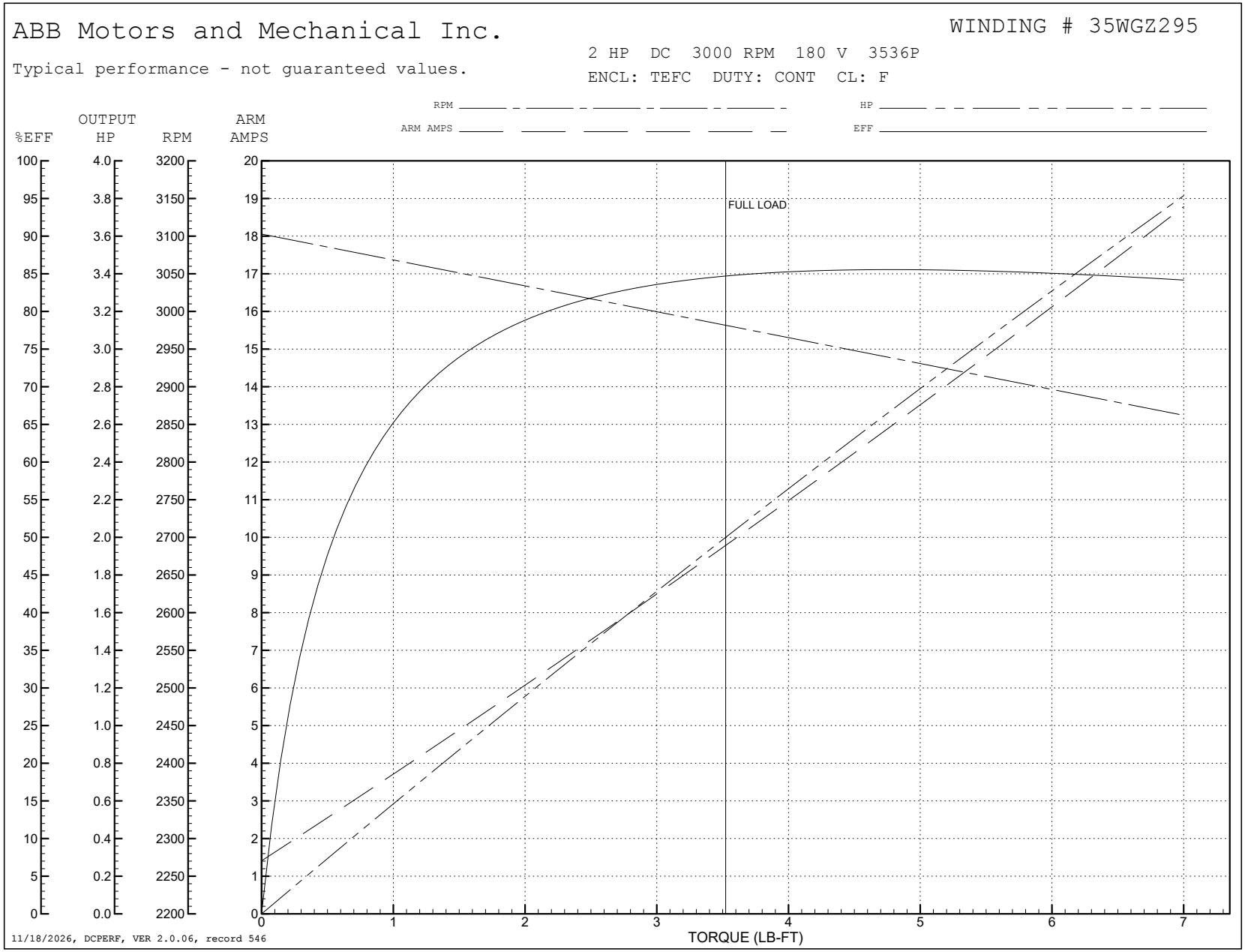
Winding: 35WGZ295-R001	**Type:** 3536P	**Enclosure:** TEFC

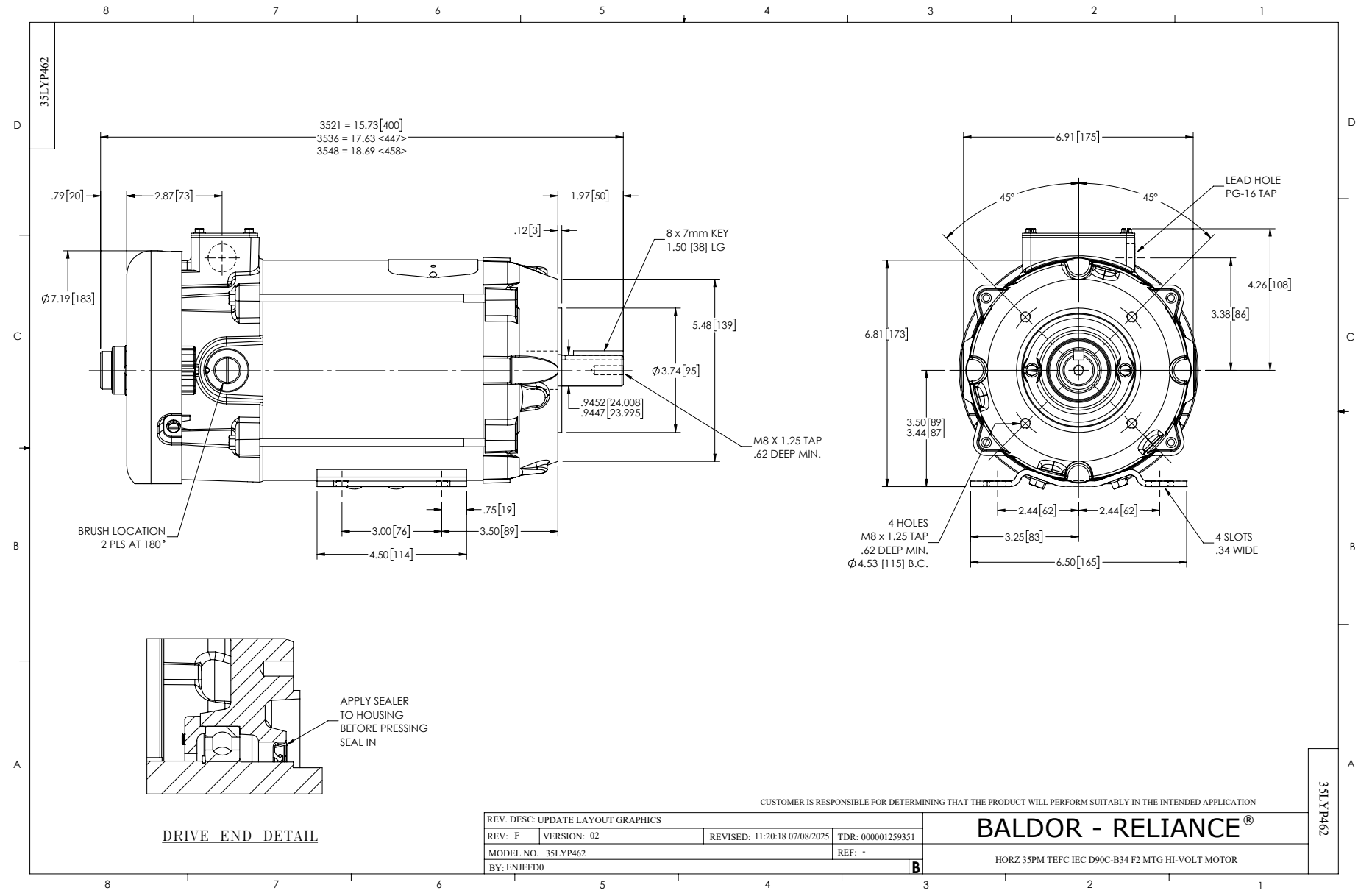
Nameplate Data	
Rated Output (HP)	2
R.P.M.	3000
Armature Volts	180
Armature Amps	10
Field Volts	
Field Amps	
Rating - Duty	40C AMB-CONT
Power Supply Code	K

General Characteristics	
Armature Resistance @ 25ºC	0.336 Ω

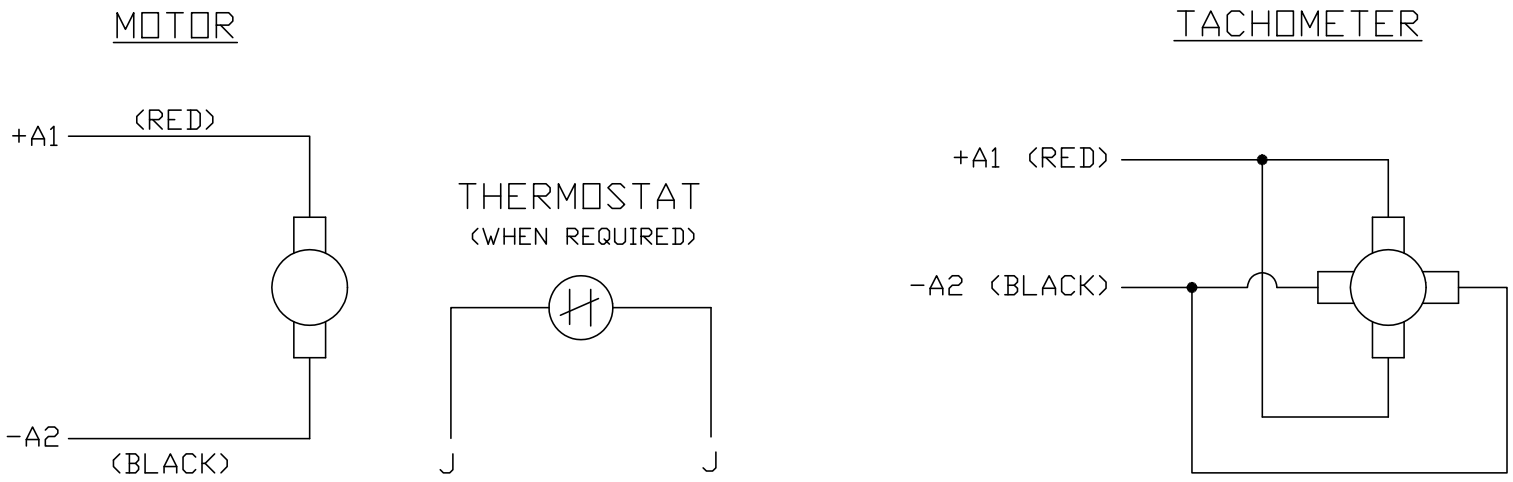
Load Characteristics at 180 Armature Volts

Load Point	**1**	**2**	**3**	**4**	**5**	**6**	**7**
Armature Amps	1.4	5.5	7.9	9.8	12.1	14.2	18.8
R.P.M.	3107	3040	3000	2982	2950	2930	2859
Torque (LB-FT)	0	1.75	2.75	3.5	4.5	5.25	7


ABB Motors and Mechanical Inc.
WINDING # 35WGZ295
Typical performance - not guaranteed values.
2 HP DC 3000 RPM 180 V 3536P
ENCL: TEFC DUTY: CONT CL: F
RPM
ARM AMPS
HP
EFF
%EFF
OUTPUT HP
RPM
ARM AMPS
FULL LOAD
TORQUE (LB-FT)
11/18/2026, DCPERF, VER 2.0.06, record 546


35LYP462
3521 = 15.73[400]
3536 = 17.63 <447>
3548 = 18.69 <458>
.79[20]
2.87[73]
1.97[50]
.12[3]
8 x 7mm KEY
1.50 [38] LG
Ø7.19[183]
5.48[139]
Ø3.74[95]
.9452[24.008]
.9447[23.995]
M8 X 1.25 TAP
.62 DEEP MIN.
.75[19]
3.00[76]
3.50[89]
4.50[114]
BRUSH LOCATION
2 PLS AT 180°
6.91[175]
45°
45°
LEAD HOLE
PG-16 TAP
4.26[108]
3.38[86]
6.81[173]
3.50[89]
3.44[87]
2.44[62]
2.44[62]
4 HOLES
M8 x 1.25 TAP
.62 DEEP MIN.
Ø4.53 [115] B.C.
3.25[83]
4 SLOTS
.34 WIDE
6.50[165]
APPLY SEALER
TO HOUSING
BEFORE PRESSING
SEAL IN
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE LAYOUT GRAPHICS
REV: F
VERSION: 02
REVISED: 11:20:18 07/08/2025
TDR: 000001259351
MODEL NO. 35LYP462
REF: -
BY: ENJEFD0
B
BALDOR - RELIANCE®
HORZ 35PM TEFC IEC D90C-B34 F2 MTG HI-VOLT MOTOR
35LYP462

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	