

ABB BALDOR RELIANCE III

Customer information packet

VP3588-14

2HP 3000RPM TEFC D90C MOTOR

Class - None

Division -

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-ft ²
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		General Characteristics	
Rated Output (HP)	2	Armature Resistance @ 25°C	0.336 Ω
R.P.M.	3000		
Armature Volts	180		
Armature Amps	10		
Field Volts			
Field Amps			
Rating - Duty	40C AMB-CONT		
Power Supply Code	K		

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

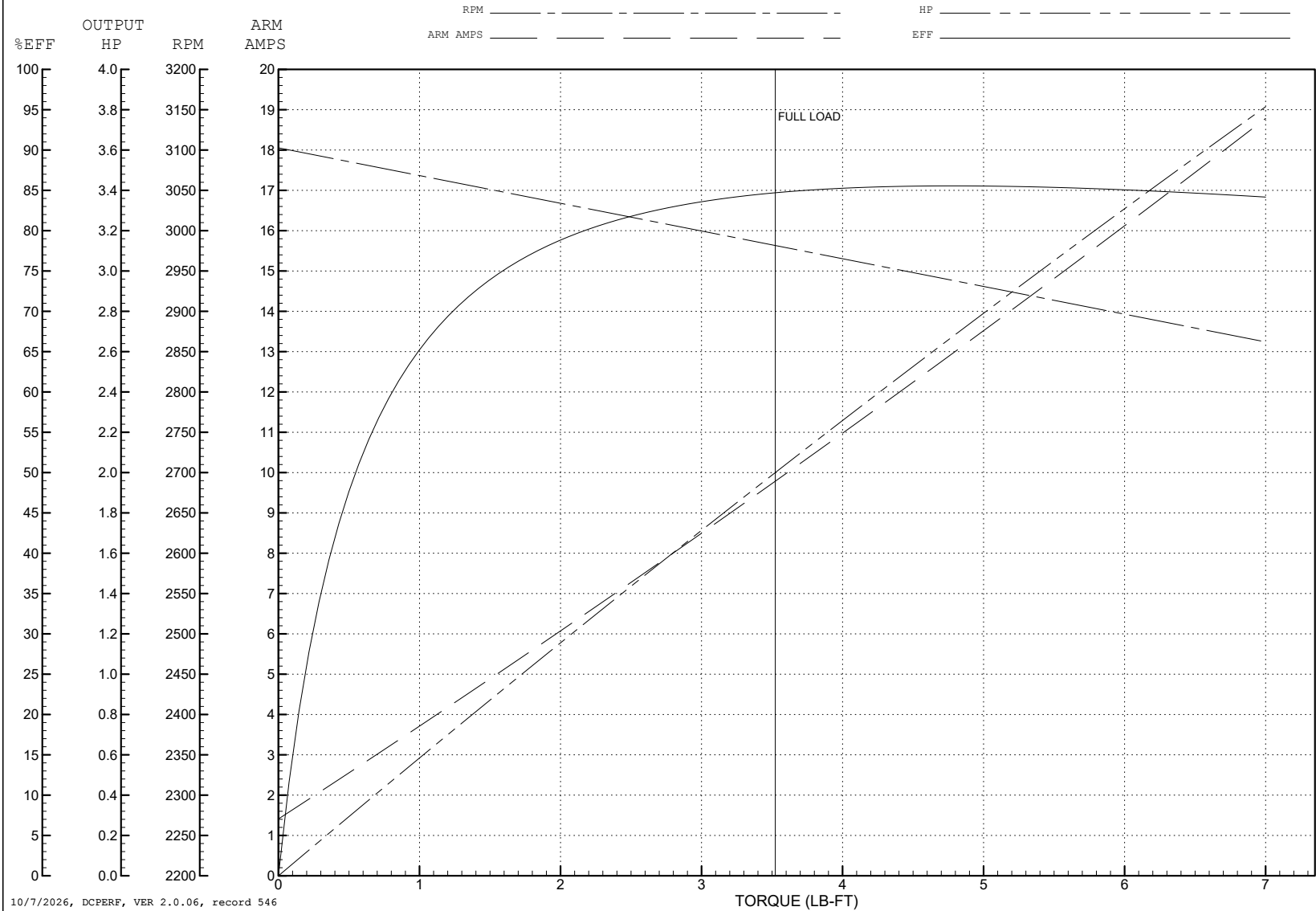
ABB Motors and Mechanical Inc.

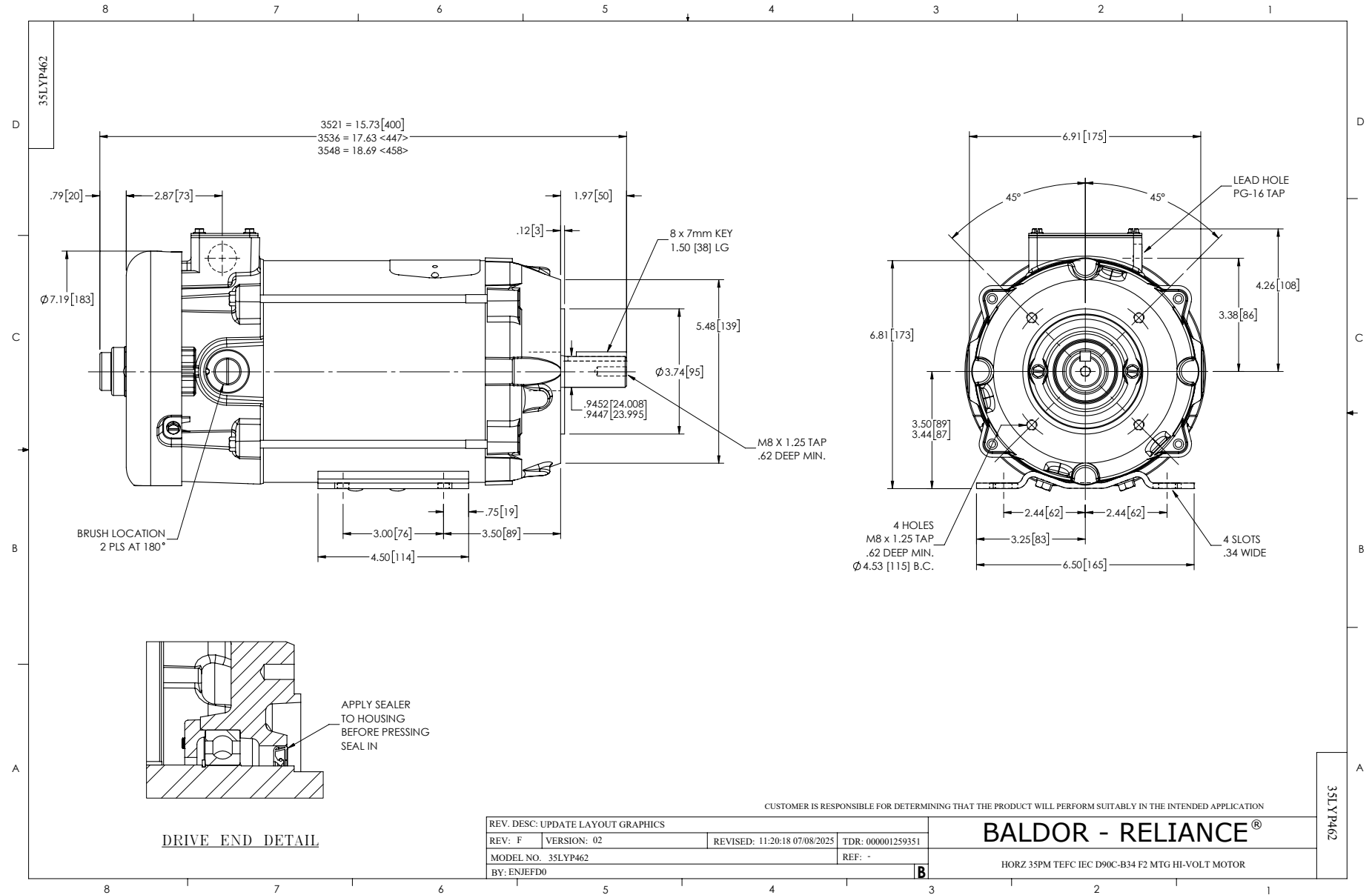
WINDING # 35WGZ295

Typical performance - not guaranteed values.

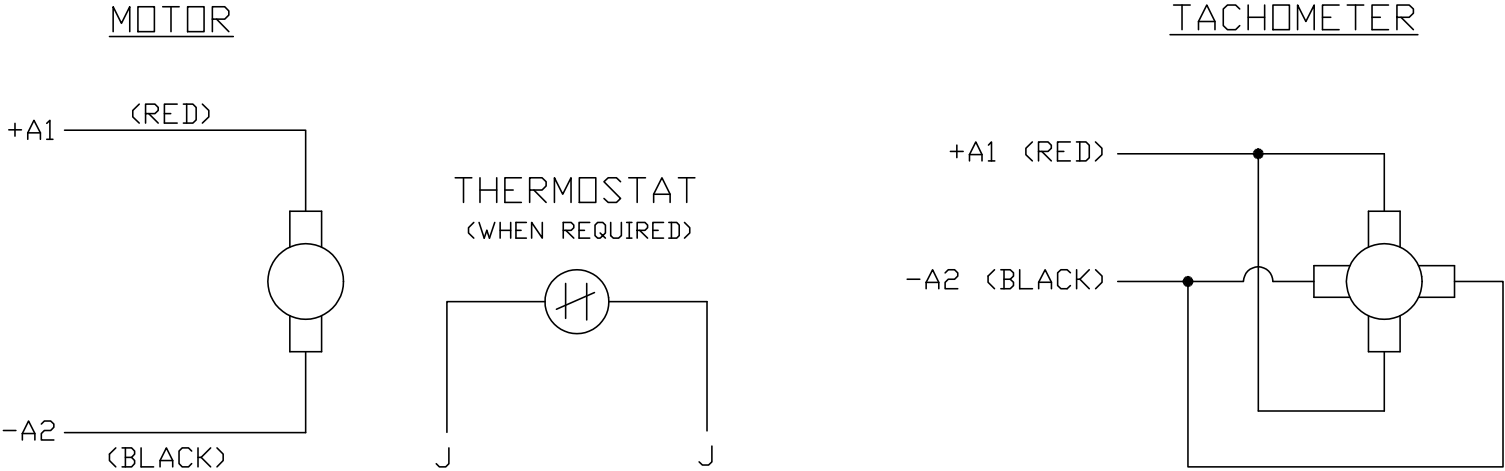
2 HP DC 3000 RPM 180 V 3536P

ENCL: TEFC DUTY: CONT CL: F





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 &..."	
CD0194		SCALE: -	BY: CK
		FILE: AAA00004503	TDR: 0078737

BALDOR ELECTRIC Co.

CD TYPE P DC PERMANENT MAGNET MOTORS AND TACHOMETERS

CD0194