ABB BALDOR RELIANCE

Customer information packet

VP3428D

.37/.50KW, 3000RPM, DC, D71D, 3416P, TEFC, F2
Class - None
Division -

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Specifications

Armature Voltage	180 V
Base Speed	3000 rpm
Enclosure	TEFC
Frame	D71D
Frame Material	Steel
Haz Area Class and Group	None
Output Power	0.373 HP
Agency Approvals	CE
	CSA
	UR
Ambient Temperature	40 °C
Armature Current	2.5 a
Armature Inertia	6.243 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
Motor Lead Termination	Flying Leads
Motor Standards	IEC
Mounting Arrangement	B35
Overall Length	13.15 IN
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	0.552 IN

Part Detail

Revision	AG
Type	DC
Mech. spec.	34-6173
Base	
Status	PRD/A
Elec. spec.	34WGZ132
Layout	34LY6173
Eff. date	10-25-2024
CD Diagram	CD0194
Poles	00
Leads	
Proprietary	False
Created date	01-01-0001

Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger

Nameplate

NP1049L					
CAT.NO.	VP3428D				
SPEC.	34-6173Z132				
KW/HP	.37/.50 TE		**I.P.**	54	
RPM	3000 1/MIN IP411 15KG TE				
IEC FRAME	D71D	**TYPE**	3416P		
ARM V	180		**ARM A**	2.5	
FLD V			**FLD A**		
INSUL	F	**AMB.**	40		
DUTY	CONT		**SUPPLY**	1.5	
BRG/DE	6203	**BRG/ODE**	6203		
BRUSHES	2/BP5000AW14				
			BLANK		
SER.					
BLANK					
APRV-CE		**APRV-CSA**		**APRV-UL**	

Accessories

Part number	Description	Multiplier
TK3400	TACHO MOUNTING KIT FOR TK3400	A8
TK3400-HPU	HPU10 MOUNTING KIT 34P/35P TEFC	

DC Motor Performance Data
Record # 1439
Typical performance - not guaranteed values

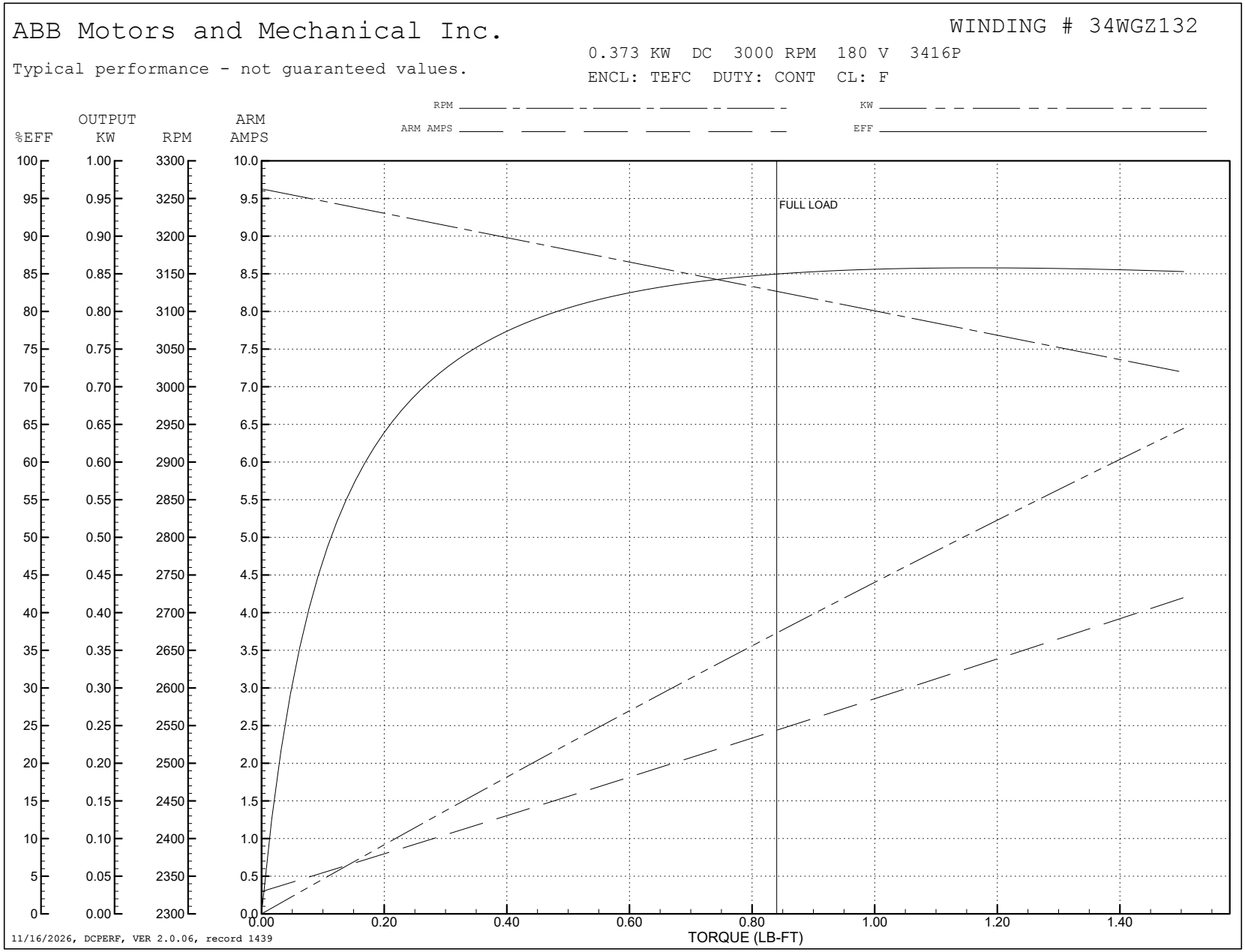
Winding: 34WGZ132-R003	**Type:** 3416P	**Enclosure:** TEFC

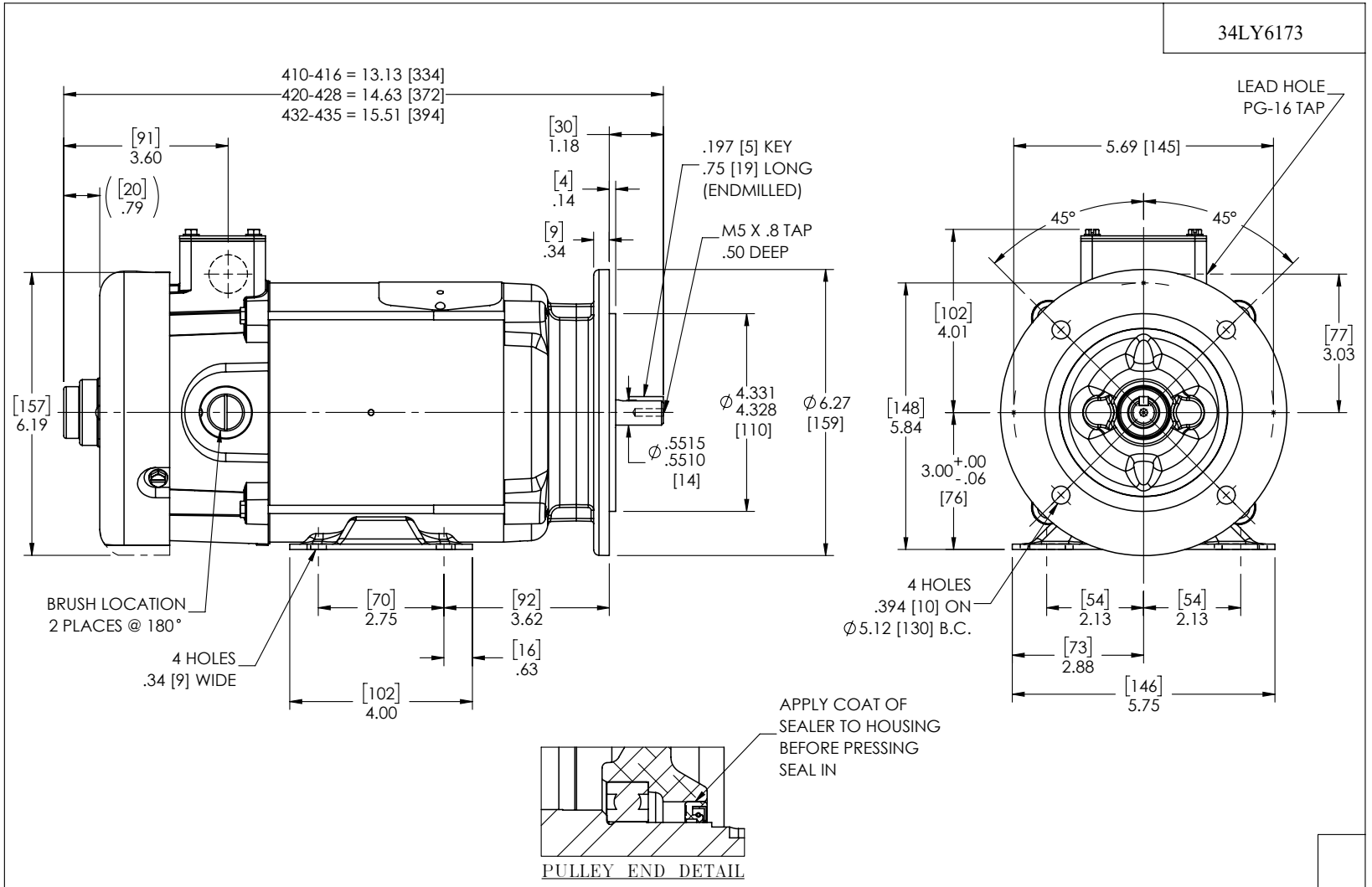
Nameplate Data	
Rated Output (KW)	0.373
R.P.M.	3000
Armature Volts	180
Armature Amps	2.5
Field Volts	
Field Amps	
Rating - Duty	40C AMB-CONT
Form Factor	1.5

General Characteristics	
Armature Resistance @ 25ºC	2.069 Ω

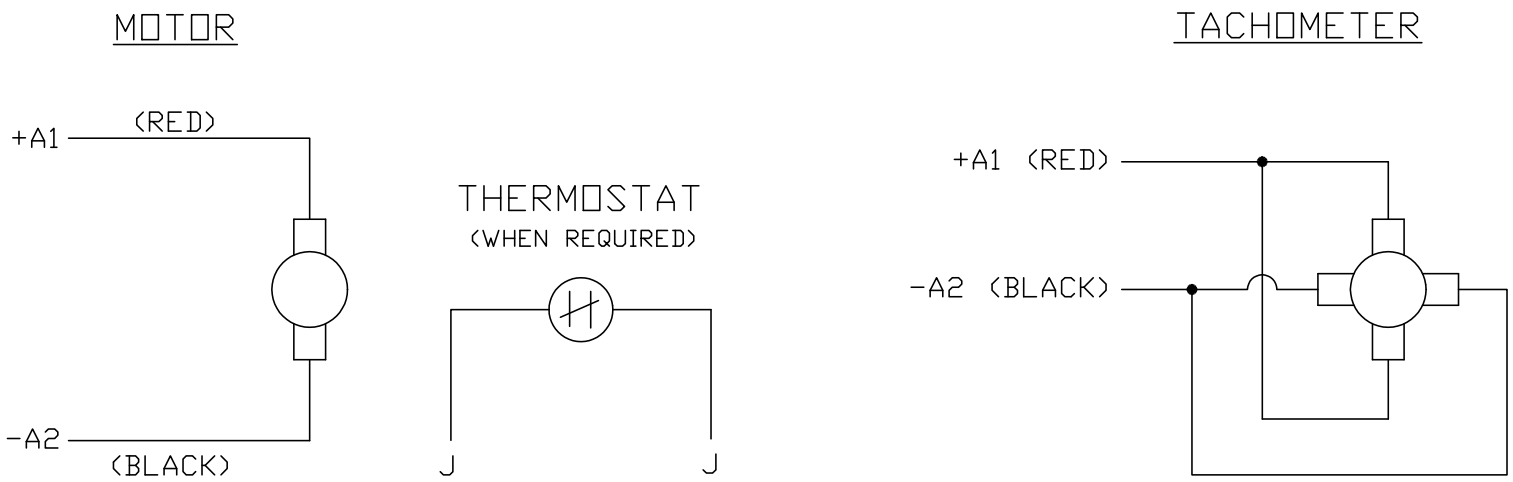
Load Characteristics at 180 Armature Volts

Load Point	**1**	**2**	**3**	**4**	**5**	**6**
Armature Amps	0.3	1.6	2.2	2.9	3.5	4.2
R.P.M.	3262	3177	3144	3099	3064	3016
Torque (LB-FT)	0	0.516	0.752	1.01	1.246	1.504


ABB Motors and Mechanical Inc.
WINDING # 34WGZ132
Typical performance - not guaranteed values.
0.373 KW DC 3000 RPM 180 V 3416P
ENCL: TEFC DUTY: CONT CL: F
RPM
ARM AMPS
KW
EFF
%EFF
OUTPUT KW
RPM
ARM AMPS
FULL LOAD
TORQUE (LB-FT)
11/16/2026, DCPERF, VER 2.0.06, record 1439


34LY6173
410-416 = 13.13 [334]
420-428 = 14.63 [372]
432-435 = 15.51 [394]
[91] 3.60
[20] .79
[30] 1.18
[4] .14
[9] .34
.197 [5] KEY
.75 [19] LONG
(ENDMILLED)
M5 X .8 TAP
.50 DEEP
[157] 6.19
Ø 4.331
4.328
[110]
Ø 6.27
[159]
Ø .5515
.5510
[14]
BRUSH LOCATION
2 PLACES @ 180°
4 HOLES
.34 [9] WIDE
[70] 2.75
[92] 3.62
[16] .63
[102] 4.00
LEAD HOLE
PG-16 TAP
5.69 [145]
45°
45°
[102] 4.01
[77] 3.03
[148] 5.84
3.00 +.00 -.06
[76]
4 HOLES
.394 [10] ON
Ø 5.12 [130] B.C.
[54] 2.13
[54] 2.13
[73] 2.88
[146] 5.75
APPLY COAT OF
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: LOAD TO SOLIDWORKS - REV K
REV: L
VERSION: 03
REVISED: 03:45:19 12/22/2022
TDR: 000001201165
BALDOR - RELIANCE®
34LY6173
MODEL NO. 34LY6173
REF: -
BY: ENFRAJ0
STD HORZ MODEL 34PM TEFC IEC D71D-B35 2 POLE F2 W/M.F.T.K.
34LY6173

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	