Customer information packet

CDPT3603

3HP, 1750RPM, DC, 184ATC, 3649P, TEFC, F1, N
Class - None
Division - Not Applicable

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9/7/2026 10:51:22 AM

Specifications

Armature Voltage	180 V
Base Speed	1750 rpm
Enclosure	TEFC
Frame	184ATC
Frame Material	Steel
Haz Area Class and Group	None
Output Power	3.000 HP
Agency Approvals	CE
	CSA
	UR
	WEEE
Ambient Temperature	40 °C
Armature Current	14.0 a
Armature Inertia	107.110 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	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	2 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	27.37 IN
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Service Factor	1.00
Shaft Diameter	1.125 IN

Part Detail

Revision	K
Type	DC
Mech. spec.	36P332
Base	
Status	PRD/A
Elec. spec.	36WGZ507
Layout	36LYP332
Eff. date	03-19-2026
CD Diagram	CD0194
Poles	00
Leads	
Proprietary	False
Created date	06-18-2019

Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger

Nameplate

NP0891L							
CAT.NO.	CDPT3603						
SPEC.	36P332Z507						
HP	3/2.2KW		**ENCL**	TEFC			
RPM	1750 1/MIN						
FRAME	184ATC		**TYPE**	3649P			
ARM V	180		**ARM A**	14			
FLD V			**FLD A**				
INSUL	F		**AMB.**	40			
DUTY	CONT		**SUPPLY**	K			
BRG/DE	6206		**BRG/ODE**				
BRUSHES	2/BP5031A01						
			BLANK				
SER.							
BLANK	IP44 KG54 IC411						
APRV-CE	Y	**APRV-CSA**	Y	**APRV-UL**	Y		

DC Motor Performance Data
Record # 311
Typical performance - not guaranteed values

Winding: 36WGZ507-R001	**Type:** 3649P	**Enclosure:** TEFC

Nameplate Data	
Rated Output (HP)	3
R.P.M.	1750
Armature Volts	180
Armature Amps	14
Field Volts	
Field Amps	
Rating - Duty	40C AMB-CONT
Power Supply Code	K

General Characteristics	
Armature Resistance @ 25ºC	0.3209 Ω

Load Characteristics at 180 Armature Volts

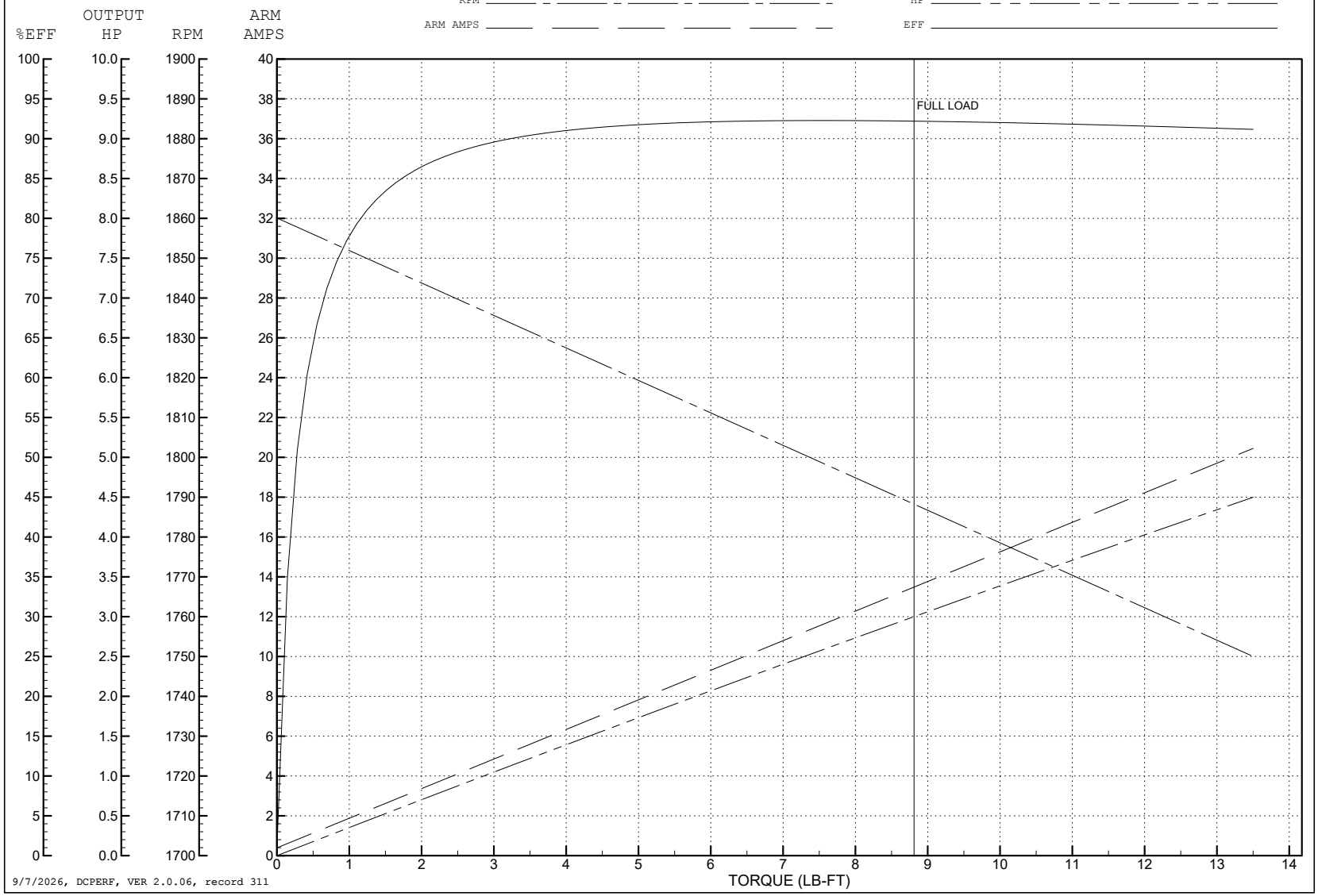
Load Point	**1**	**2**	**3**	**4**	**5**	**6**	**7**
Armature Amps	0.4	3.37	6.34	9.01	12.28	13.51	20.45
R.P.M.	1860	1844	1827	1813	1795	1788	1750
Torque (LB-FT)	0	2	4	5.8	8	8.83	13.5

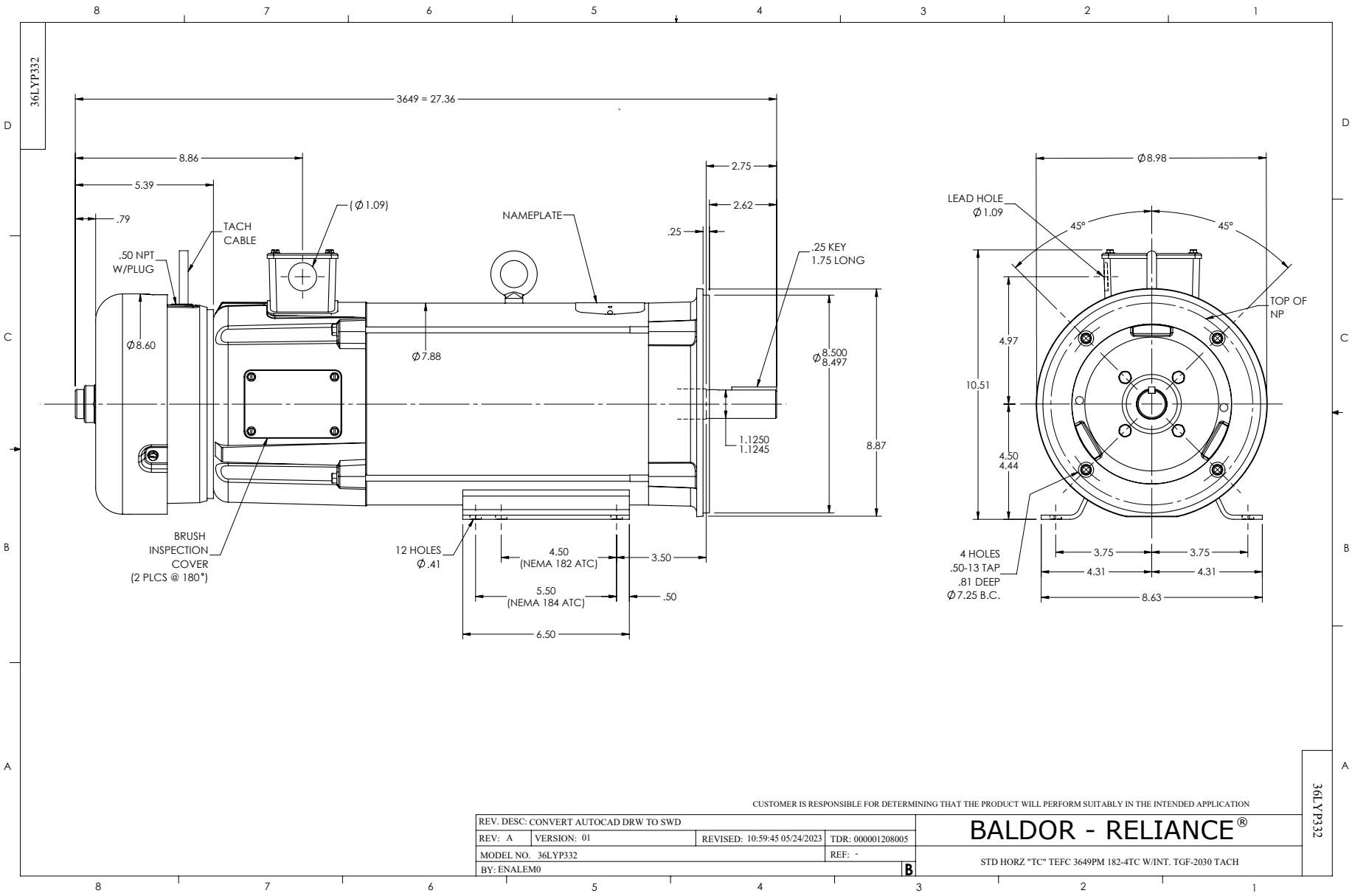
ABB Motors and Mechanical Inc.

WINDING # 36WGZ507

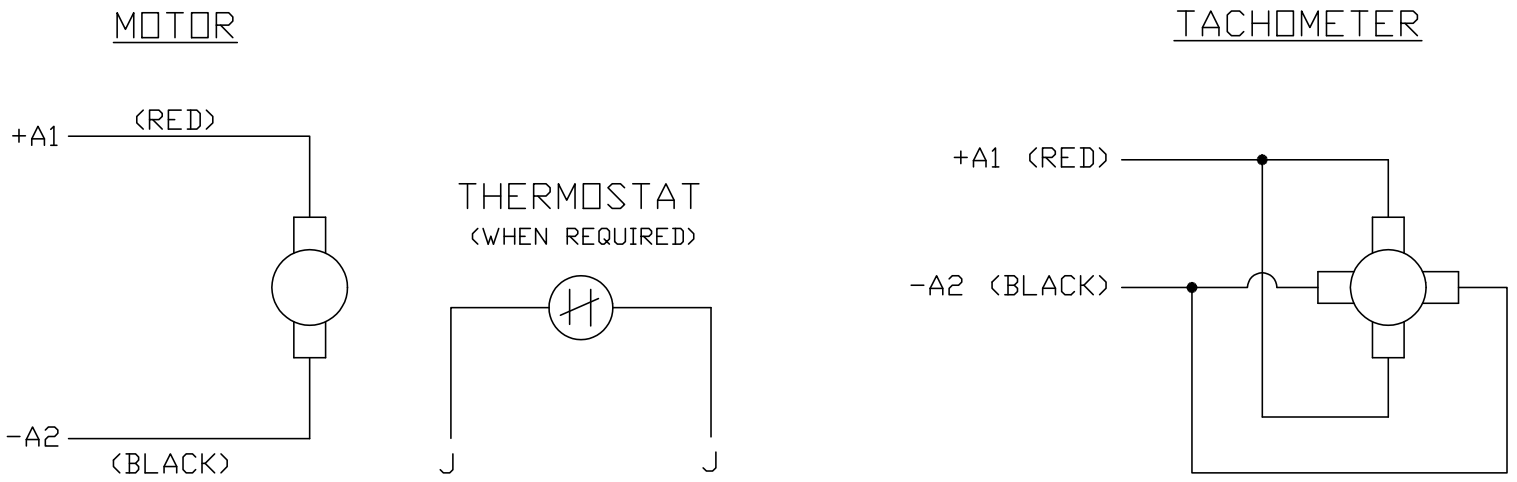
Typical performance - not guaranteed values.

3 HP DC 1750 RPM 180 V 3649P
ENCL: TEFC DUTY: CONT CL: F




36LYP332
3649 = 27.36
8.86
5.39
.79
TACH CABLE
(Ø1.09)
NAMEPLATE
2.75
2.62
.25
.25 KEY
1.75 LONG
.50 NPT
W/PLUG
Ø8.60
Ø7.88
Ø8.500
8.497
1.1250
1.1245
8.87
BRUSH
INSPECTION
COVER
(2 PLCS @ 180°)
12 HOLES
Ø.41
4.50
(NEMA 182 ATC)
3.50
5.50
(NEMA 184 ATC)
.50
6.50
Ø8.98
LEAD HOLE
Ø1.09
45°
45°
TOP OF
NP
4.97
10.51
4.50
4.44
4 HOLES
.50-13 TAP
.81 DEEP
Ø7.25 B.C.
3.75
3.75
4.31
4.31
8.63
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD
REV: A
VERSION: 01
REVISED: 10:59:45 05/24/2023
TDR: 000001208005
MODEL NO. 36LYP332
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD HORZ "TC" TEFC 3649PM 182-4TC W/INT. TGF-2030 TACH
36LYP332

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	