ABB BALDOR RELIANCE

Customer information packet

CDPWD3603

3HP, 1750RPM, DC, 184TC, 3649P, TEFC, F1
Class - None
Division -

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11/14/2026 12:12:01 PM

Specifications

Armature Voltage	180 V
Base Speed	1750 rpm
Enclosure	TEFC
Frame	184TC
Frame Material	Steel
Haz Area Class and Group	None
Output Power	3.000 HP
Agency Approvals	CE
	CSA
	UR
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	NO FEEDBACK
Heater Indicator	No Heater
Lifting Lugs	Standard Lifting Lugs
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	2 @ 12 AWG, A
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	24.33 IN
Product Family	Wash Down
Pulley End Bearing Type	Sealed Bearing
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End

Part Detail

Revision	BC
Type	DC
Mech. spec.	36P126
Base	
Status	PRD/A
Elec. spec.	36WGZ507
Layout	36LYP126
Eff. date	03-19-2026
CD Diagram	CD0194
Poles	00
Leads	2#12 A Y
Proprietary	False
Created date	01-01-0001

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

Nameplate

NP1509							
CAT.NO.	CDPWD3603						
SPEC.	36P126Z507						
HP	3/KW2.24	**ENCL**	TEFC				
RPM	1750						
FRAME	184TC	**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**	6206				
BRUSHES	2/BP5031A01						
		BLANK					
SER.							
BLANK	IP55 KG 51						
APRV-CSA	Y	**APRV-UL**	Y	**APRV-CE**	Y		

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

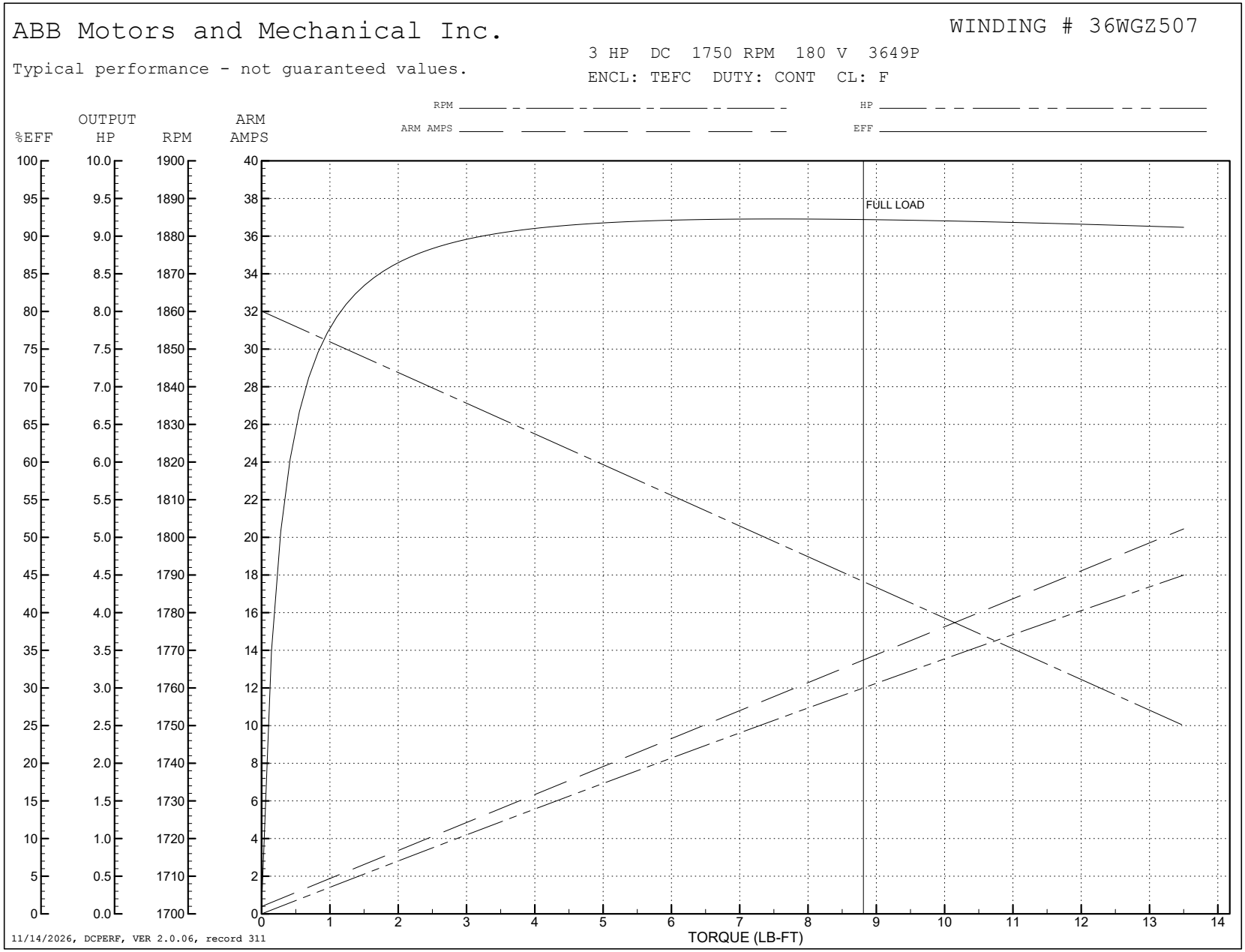
Winding: 36WGZ507-R001	**Type:** 3649P	**Enclosure:** TEFC

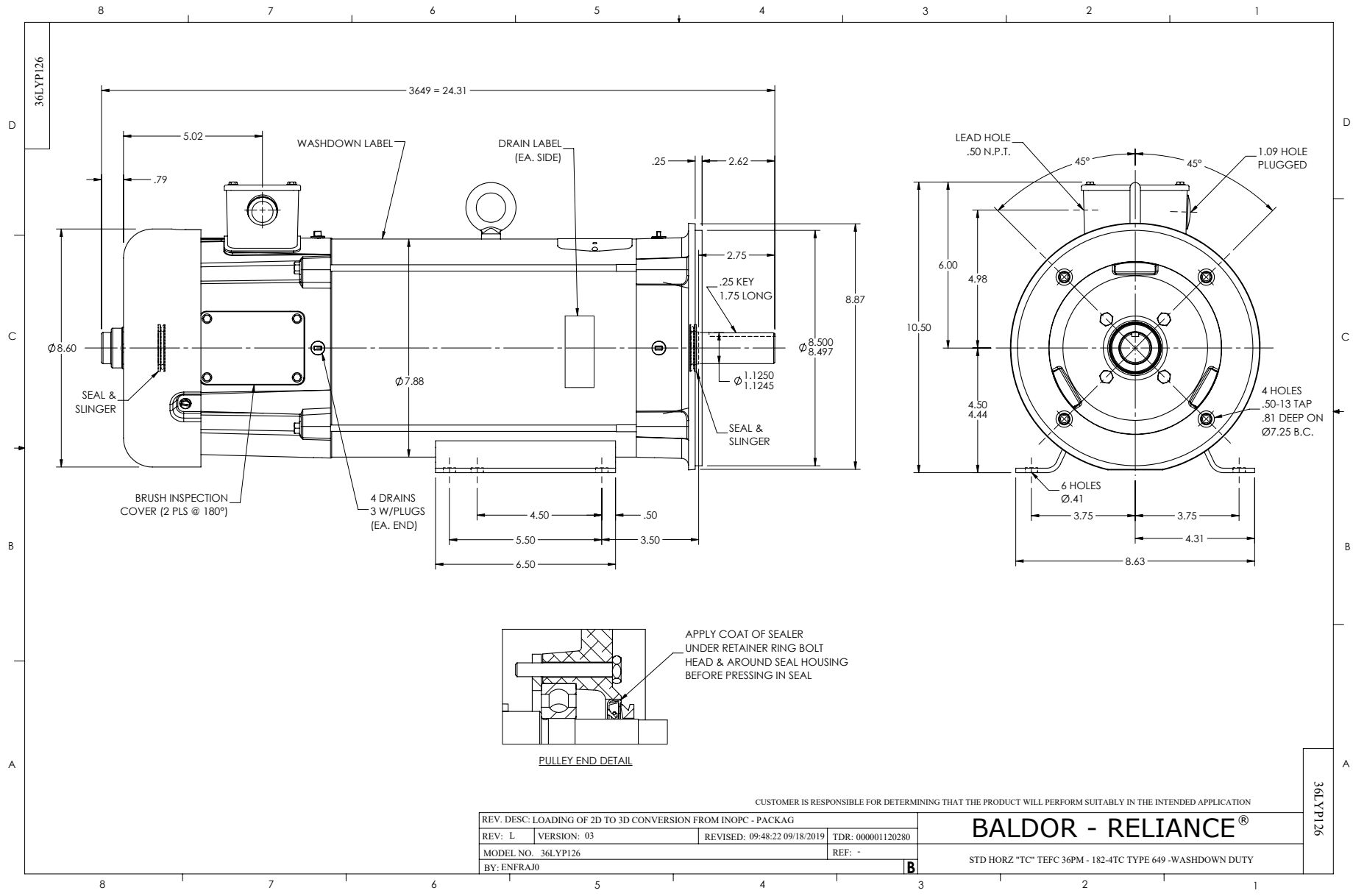
Nameplate Data	
Rated Output (HP)	3
R.P.M.	1750
Armature Volts	180
Armature Amps	14
Field Volts	
Field Amps	
Rating - Duty	40C AMB-CONT
Power Supply Code	K

General Characteristics	
Armature Resistance @ 25ºC	0.3209 Ω

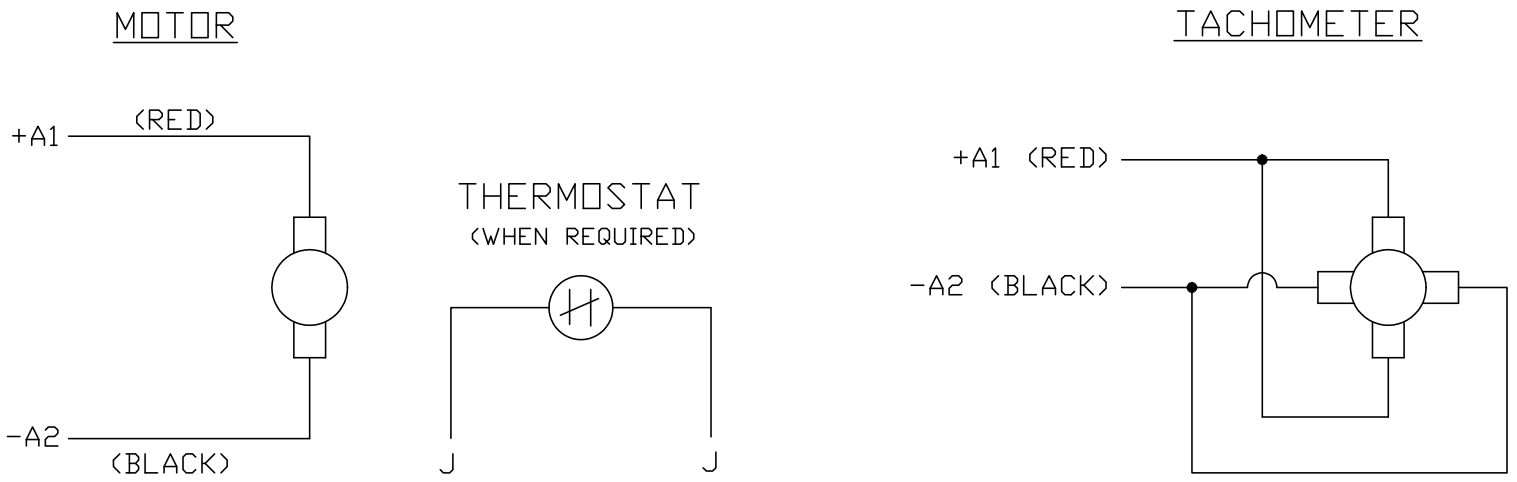
Load Characteristics at 180 Armature Volts

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
RPM
HP
ARM AMPS
EFF
%EFF
OUTPUT HP
RPM
ARM AMPS
FULL LOAD
TORQUE (LB-FT)
11/14/2026, DCPERF, VER 2.0.06, record 311


36LYP126
3649 = 24.31
5.02
.79
WASHDOWN LABEL
DRAIN LABEL
(EA. SIDE)
.25
2.62
2.75
.25 KEY
1.75 LONG
8.87
Ø8.60
Ø7.88
Ø 8.500
8.497
Ø 1.1250
1.1245
SEAL &
SLINGER
SEAL &
SLINGER
BRUSH INSPECTION
COVER (2 PLS @ 180°)
4 DRAINS
3 W/PLUGS
(EA. END)
4.50
.50
5.50
3.50
6.50
LEAD HOLE
.50 N.P.T.
45°
45°
1.09 HOLE
PLUGGED
6.00
4.98
10.50
4.50
4.44
4 HOLES
.50-13 TAP
.81 DEEP ON
Ø7.25 B.C.
6 HOLES
Ø.41
3.75
3.75
4.31
8.63
APPLY COAT OF SEALER
UNDER RETAINER RING BOLT
HEAD & AROUND SEAL HOUSING
BEFORE PRESSING IN SEAL
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOADING OF 2D TO 3D CONVERSION FROM INOPC - PACKAG
REV: L
VERSION: 03
REVISED: 09:48:22 09/18/2019
TDR: 000001120280
MODEL NO. 36LYP126
REF: -
BY: ENFRAJ0
B
BALDOR - RELIANCE®
STD HORZ "TC" TEFC 36PM - 182-4TC TYPE 649 -WASHDOWN DUTY
36LYP126

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	