

BALDOR® • RELIANCE™

Customer information packet

CDPWD3603

3HP, 1750RPM, DC, 184TC, 3649P, TEFC, F1

Class - None

Division -

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-ft ²
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	BB
Type	DC
Mech. spec.	36P126
Base	
Status	PRD/A
Elec. spec.	36WGZ507
Layout	36LYP126
Eff. date	10-09-2023
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			General Characteristics		
Rated Output (HP)	3	Armature Resistance @ 25°C	0.3209 Ω		
R.P.M.	1750				
Armature Volts	180				
Armature Amps	14				
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	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

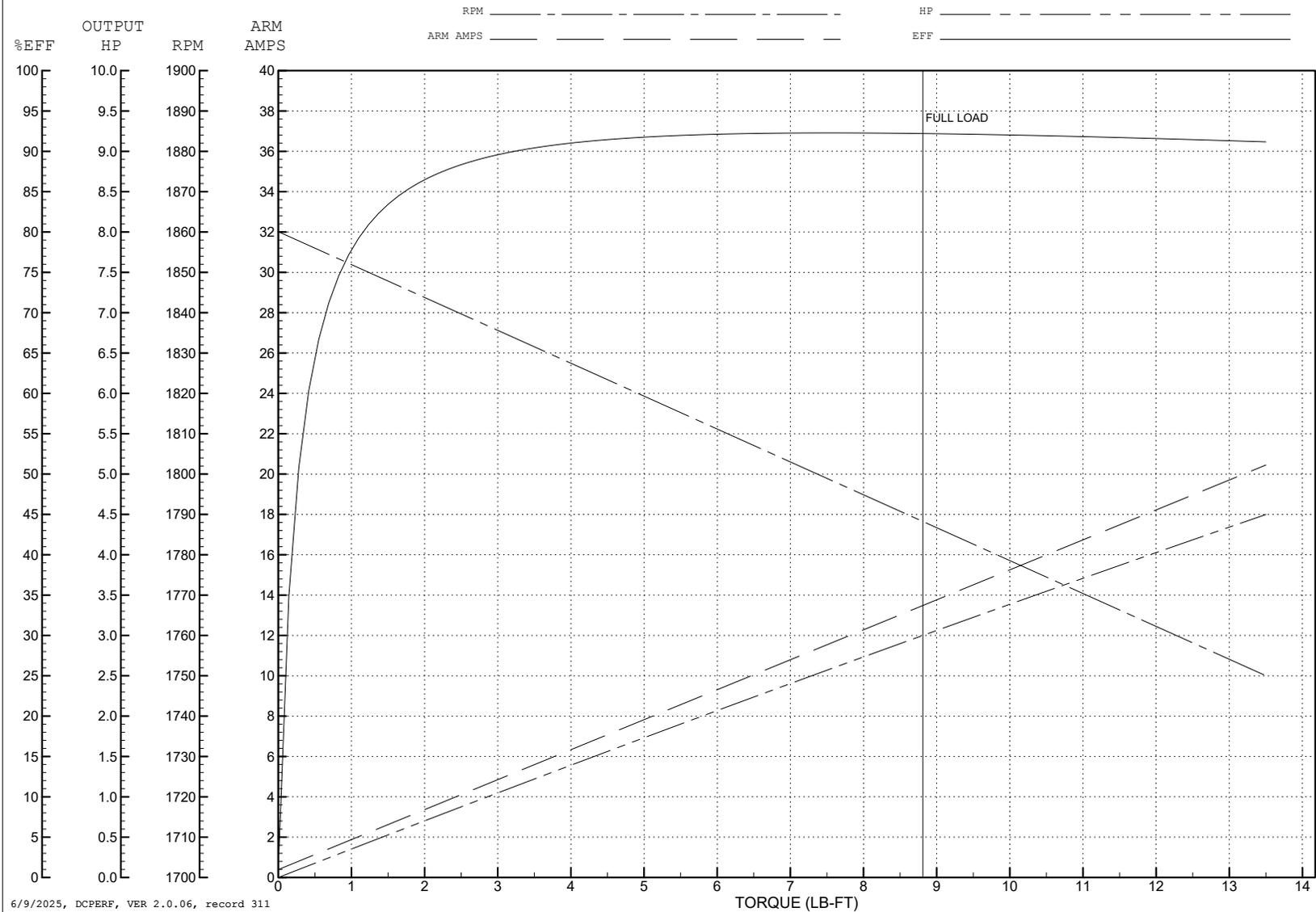
ABB Motors and Mechanical Inc.

WINDING # 36WGZ507

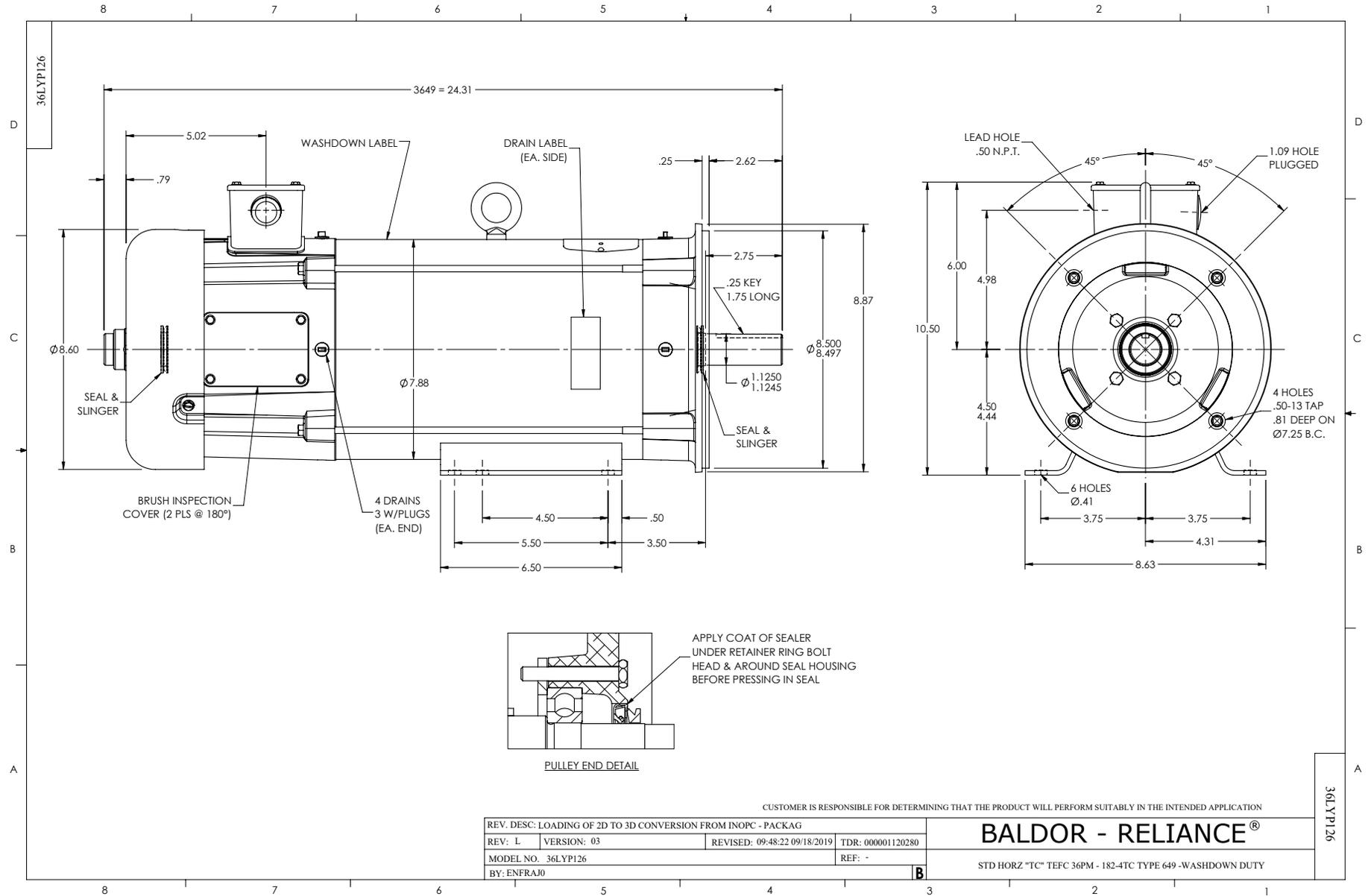
3 HP DC 1750 RPM 180 V 3649P

Typical performance - not guaranteed values.

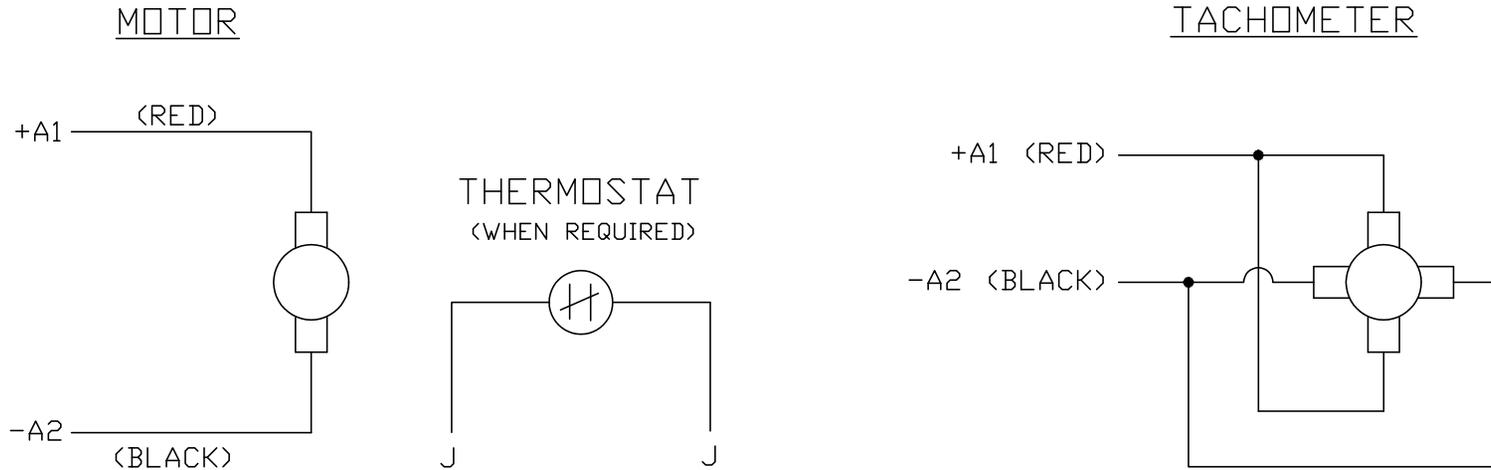
ENCL: TEFC DUTY: CONT CL: F



6/9/2025, DCPERF, VER 2.0.06, record 311



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	REVISED: 07/28/95
	FILE: AAA00004503	TDR: 0078737	

BALDOR ELECTRIC Co.

CD TYPE P DC PERMANENT MAGNET MOTORS AND TACHOMETERS

CD0194