ABB BALDOR RELIANCE

Customer information packet

CDPWD3605

5HP, 1750RPM, DC, 1810ATC, 3681P, TEFC, F1
Class - None
Division -

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Specifications

Armature Voltage	180 V
Base Speed	1750 rpm
Enclosure	TEFC
Frame	1810ATC
Frame Material	Steel
Haz Area Class and Group	None
Output Power	5.000 HP
Agency Approvals	CE
	CSA
	UR
Ambient Temperature	40 °C
Armature Current	24.5 a
Armature Inertia	177.060 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	27.83 IN
Product Family	Wash Down
Pulley End Bearing Type	Sealed Bearing
Service Factor	1.00
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding

Part Detail

Revision	AX
Type	DC
Mech. spec.	36P128
Base	
Status	PRD/A
Elec. spec.	36WGZ509
Layout	36LYP128
Eff. date	05-22-2026
CD Diagram	CD0194
Poles	00
Leads	2#12 A Y
Proprietary	False
Created date	01-01-0001

Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger

Nameplate

NP1509						
CAT.NO.	CDPWD3605					
SPEC.	36P128Z509					
HP	5/KW3.73	**ENCL**	TEFC			
RPM	1750					
FRAME	1810ATC	**TYPE**	3681P			
ARM V	180	**ARM A**	24.5			
FLD V		**FLD A**				
INSUL	F	**AMB.**	40			
DUTY	CONT	**SUPPLY**	K			
BRG/DE	6206	**BRG/ODE**	6206			
BRUSHES	2/BP5027A01					
		BLANK				
SER.						
BLANK	IP55 KG 71					
APRV-CSA	Y	**APRV-UL**	Y	**APRV-CE**	Y	

DC Motor Performance Data
Record # 312
Typical performance - not guaranteed values

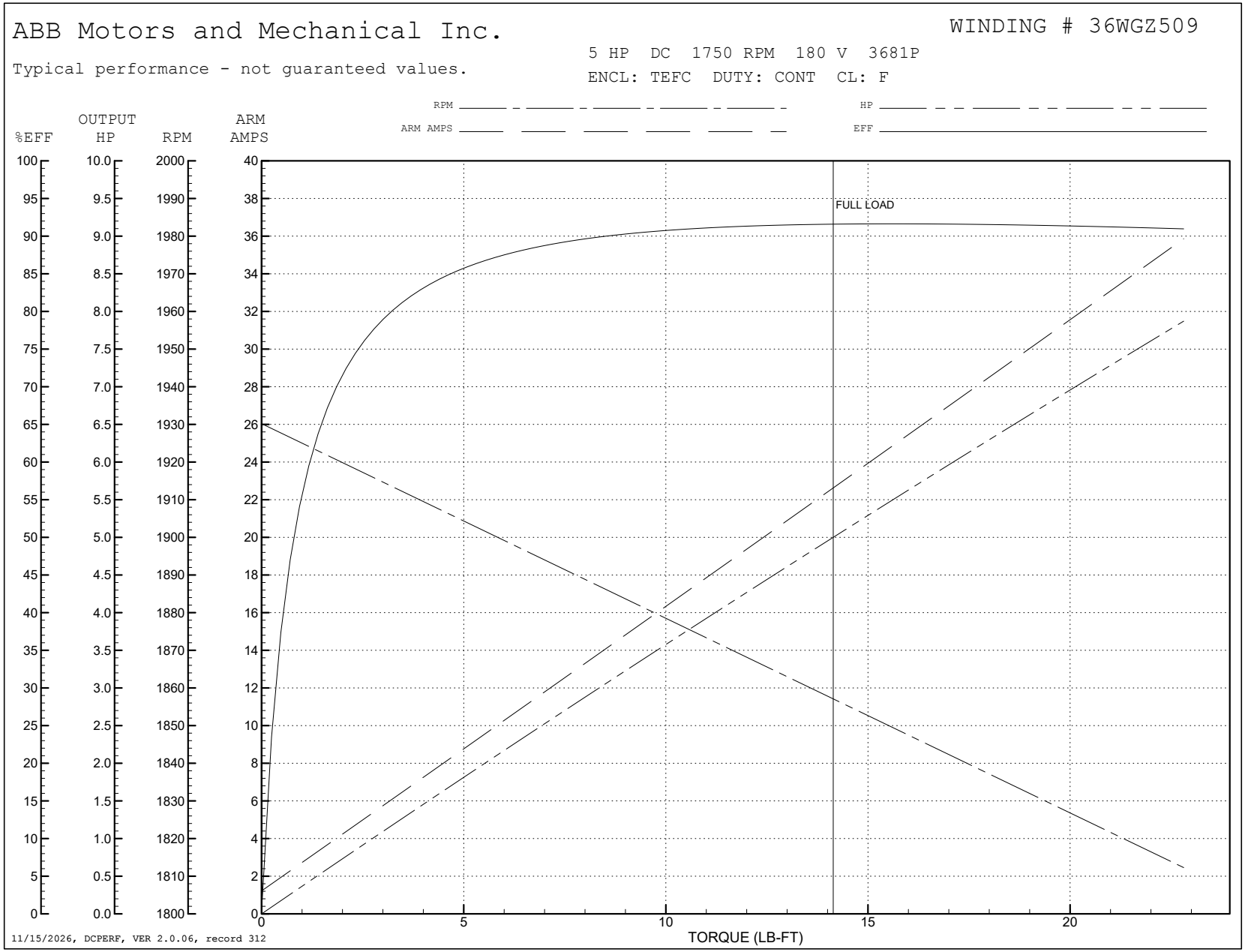
Winding: 36WGZ509-R001	**Type:** 3681P	**Enclosure:** TEFC

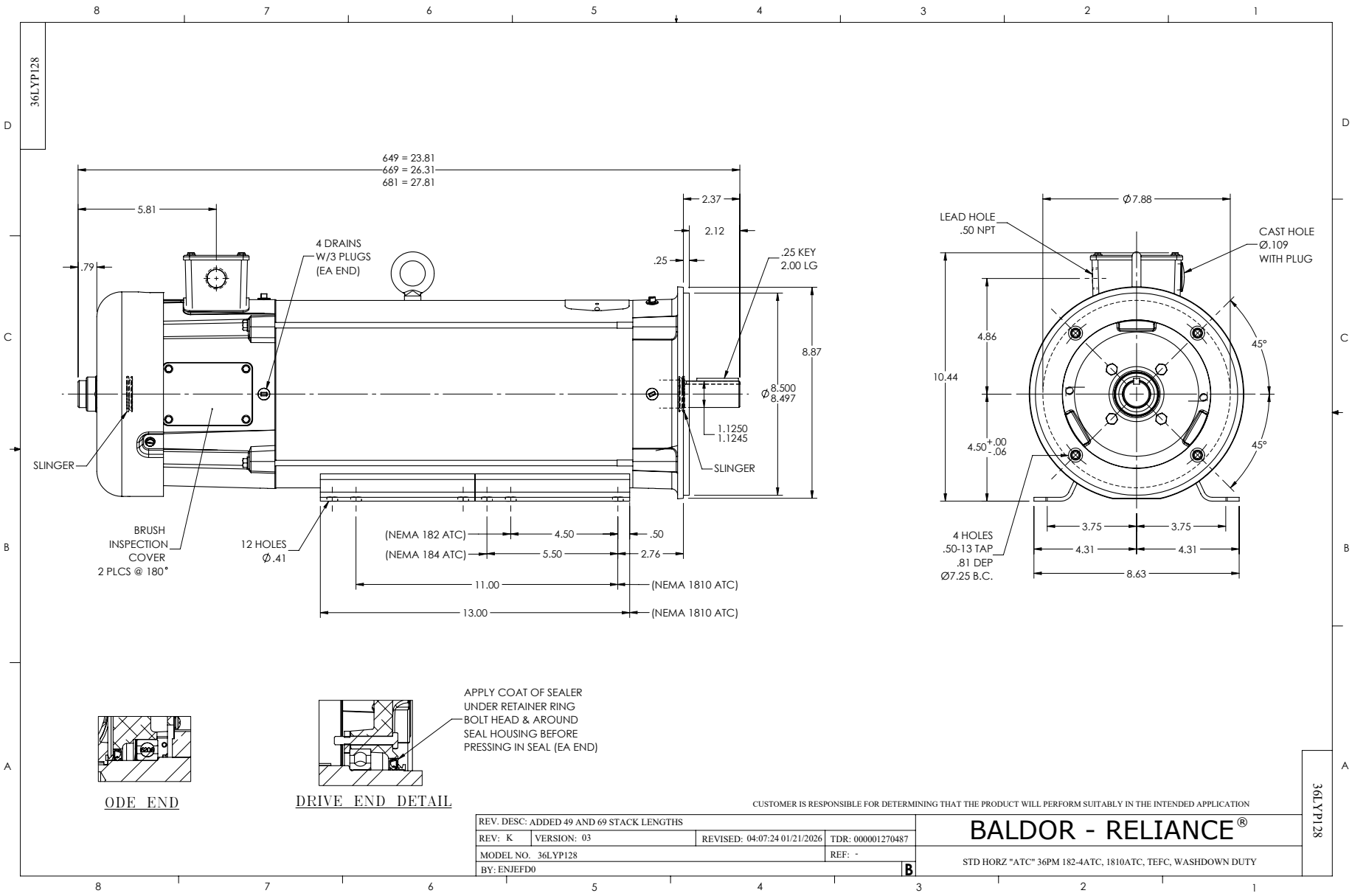
Nameplate Data	
Rated Output (HP)	5
R.P.M.	1750
Armature Volts	180
Armature Amps	24.5
Field Volts	
Field Amps	
Rating - Duty	40C AMB-CONT
Power Supply Code	K

General Characteristics	
Armature Resistance @ 25ºC	0.16 Ω
Voltage Constant	91.78 v/krpm
Armature Inductance	3.677 mH
Armature Inertia	177.0597 LI²

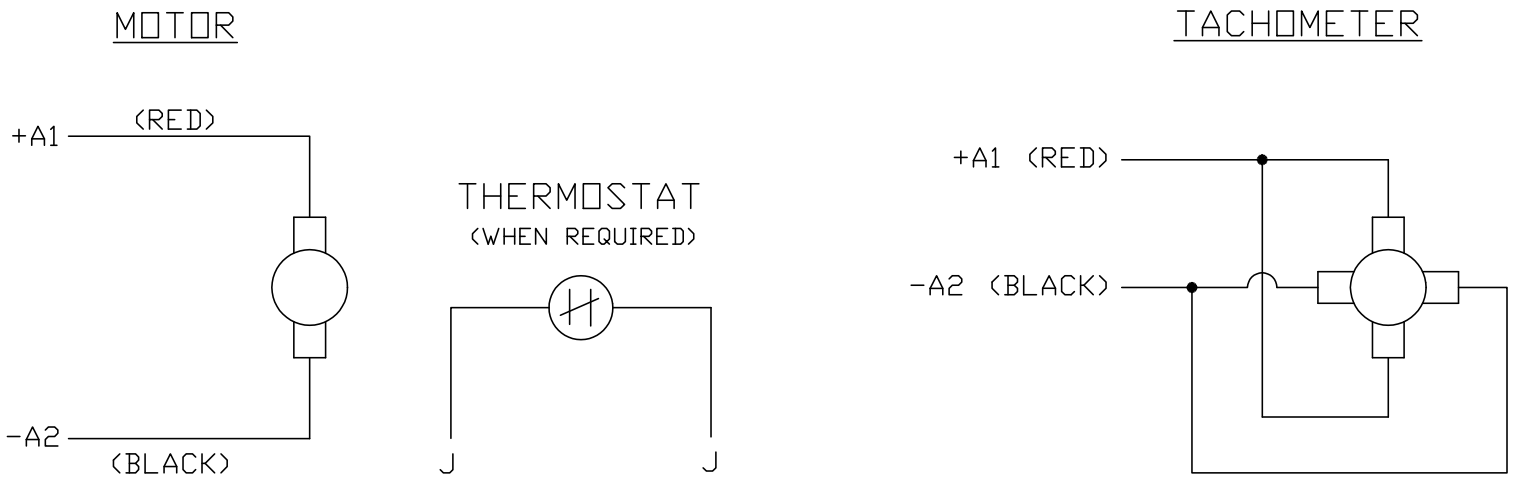
Load Characteristics at 180 Armature Volts

Load Point	**1**	**2**	**3**	**4**	**5**	**6**	**7**
Armature Amps	1.1	7.1	12.8	18.4	24.1	29.9	35.99
R.P.M.	1931	1915	1886	1870	1850	1832	1815
Torque (LB-FT)	0	3.8	7.57	11.39	15.18	19	22.81


ABB Motors and Mechanical Inc.
WINDING # 36WGZ509
Typical performance - not guaranteed values.
5 HP DC 1750 RPM 180 V 3681P
ENCL: TEFC DUTY: CONT CL: F
RPM
ARM AMPS
HP
EFF
%EFF
OUTPUT HP
RPM
ARM AMPS
FULL LOAD
TORQUE (LB-FT)
11/15/2026, DCPERF, VER 2.0.06, record 312


36LYP128
649 = 23.81
669 = 26.31
681 = 27.81
5.81
.79
4 DRAINS
W/3 PLUGS
(EA END)
2.37
2.12
.25
.25 KEY
2.00 LG
8.87
Ø8.500
8.497
1.1250
1.1245
SLINGER
SLINGER
BRUSH
INSPECTION
COVER
2 PLCS @ 180°
12 HOLES
Ø.41
(NEMA 182 ATC)
(NEMA 184 ATC)
4.50
5.50
.50
2.76
11.00
(NEMA 1810 ATC)
13.00
(NEMA 1810 ATC)
Ø7.88
LEAD HOLE
.50 NPT
CAST HOLE
Ø.109
WITH PLUG
4.86
10.44
45°
45°
4.50 +.00 -.06
4 HOLES
.50-13 TAP
.81 DEP
Ø7.25 B.C.
3.75
3.75
4.31
4.31
8.63
APPLY COAT OF SEALER
UNDER RETAINER RING
BOLT HEAD & AROUND
SEAL HOUSING BEFORE
PRESSING IN SEAL (EA END)
ODE END
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADDED 49 AND 69 STACK LENGTHS
REV: K
VERSION: 03
REVISED: 04:07:24 01/21/2026
TDR: 000001270487
MODEL NO. 36LYP128
REF: -
BY: ENJEFD0
B
BALDOR - RELIANCE®
STD HORZ "ATC" 36PM 182-4ATC, 1810ATC, TEFC, WASHDOWN DUTY
36LYP128

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	