ABB BALDOR RELIANCE

Customer information packet

VP3605D

3.7KW, 1750RPM, DC, D112D, 3681P, TEFC, F1
Class - None
Division -

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Specifications

Armature Voltage	180 V
Base Speed	1750 rpm
Enclosure	TEFC
Frame	D112D
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
Frame Prefix	D
Heater Indicator	No Heater
Lifting Lugs	Standard Lifting Lugs
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	2 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	IEC
Mounting Arrangement	B35
Overall Length	28.56 IN
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Service Factor	1.00
Shaft Diameter	1.103 IN
Shaft Extension Location	Pulley End

Part Detail

Revision	AB
Type	DC
Mech. spec.	36P184
Base	
Status	PRD/A
Elec. spec.	36WGZ509
Layout	36LYP184
Eff. date	03-19-2026
CD Diagram	CD0194
Poles	00
Leads	
Proprietary	False
Created date	01-01-0001

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

Nameplate

NP0891L					
CAT.NO.	VP3605D				
SPEC.	36P184Z509				
HP	3.7KW	**ENCL**	TEFC		
RPM	1750 1/MIN				
FRAME	D112D	**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	IP44		
SER.					
BLANK	IC411 30KG				
APRV-CE	Y	**APRV-CSA**	Y	**APRV-UL**	Y

Accessories

Part number	Description	Multiplier
TK3600PM	TACHO MOUNTING KIT FOR TK3600PM	A8

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

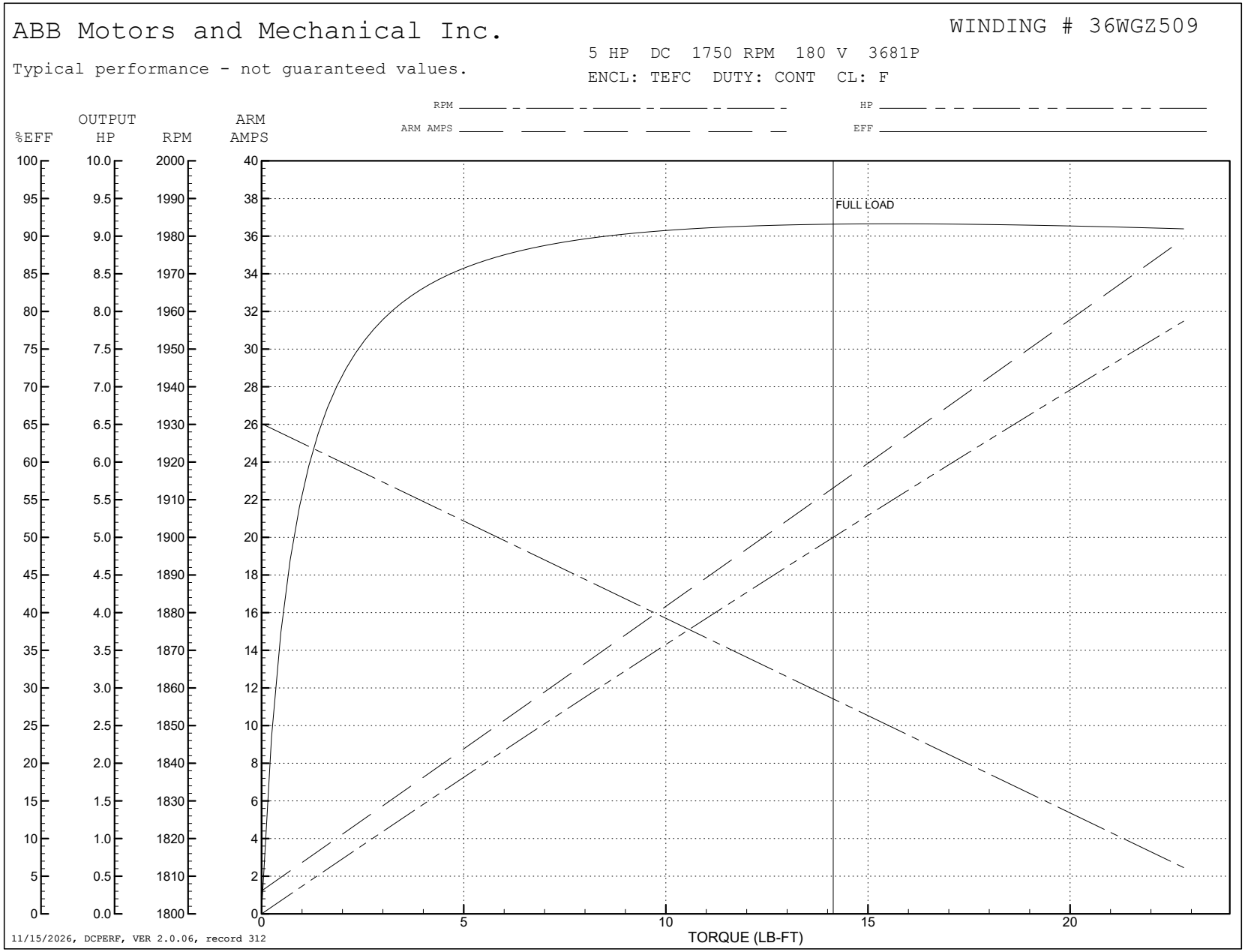
Winding: 36WGZ509-R001	**Type:** 3681P	**Enclosure:** TEFC

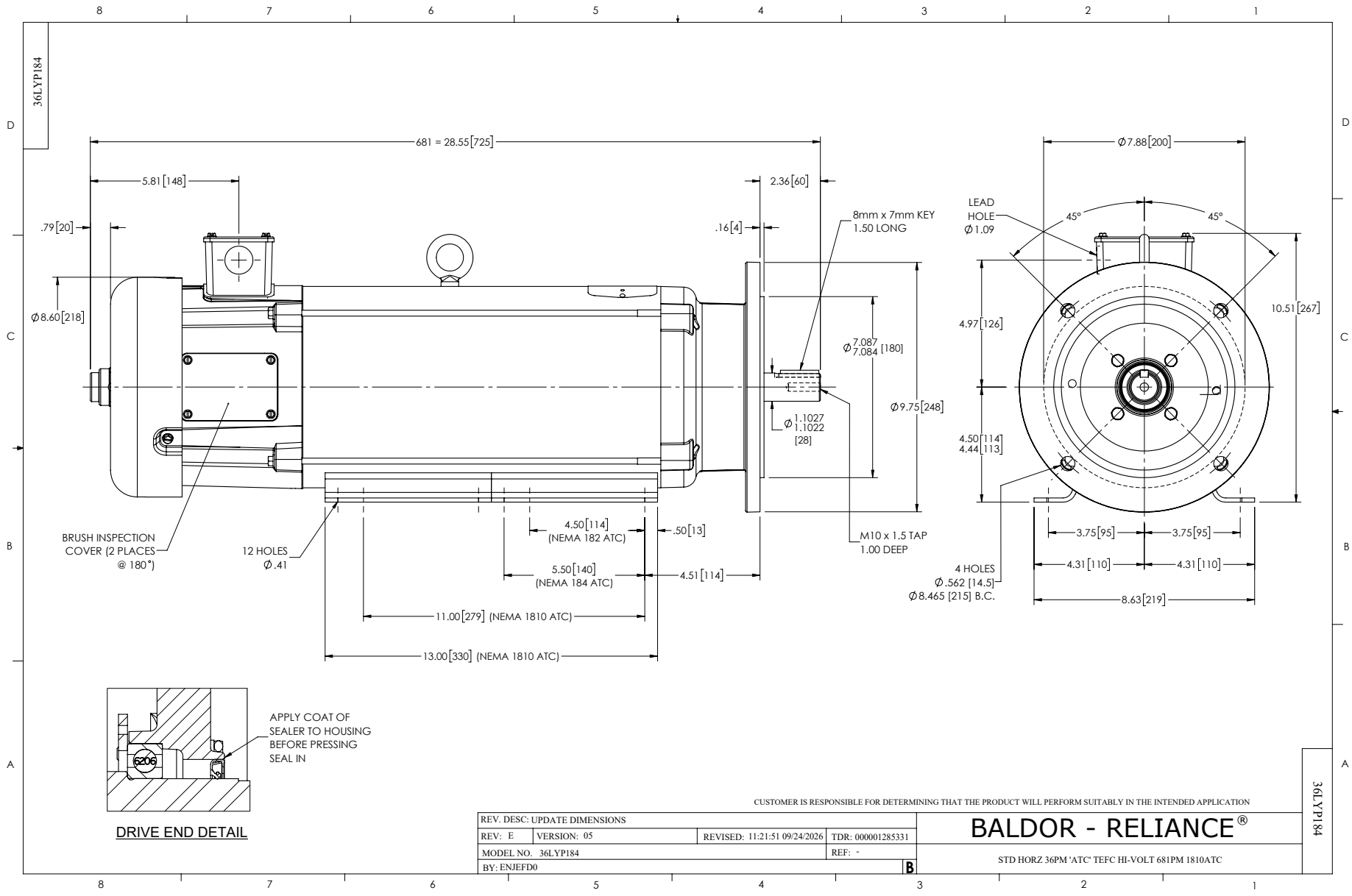
Nameplate Data	
Rated Output (HP)	5
R.P.M.	1750
Armature Volts	180
Armature Amps	24.5
Field Volts	
Field Amps	
Rating - Duty	40C AMB-CONT
Power Supply Code	K

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

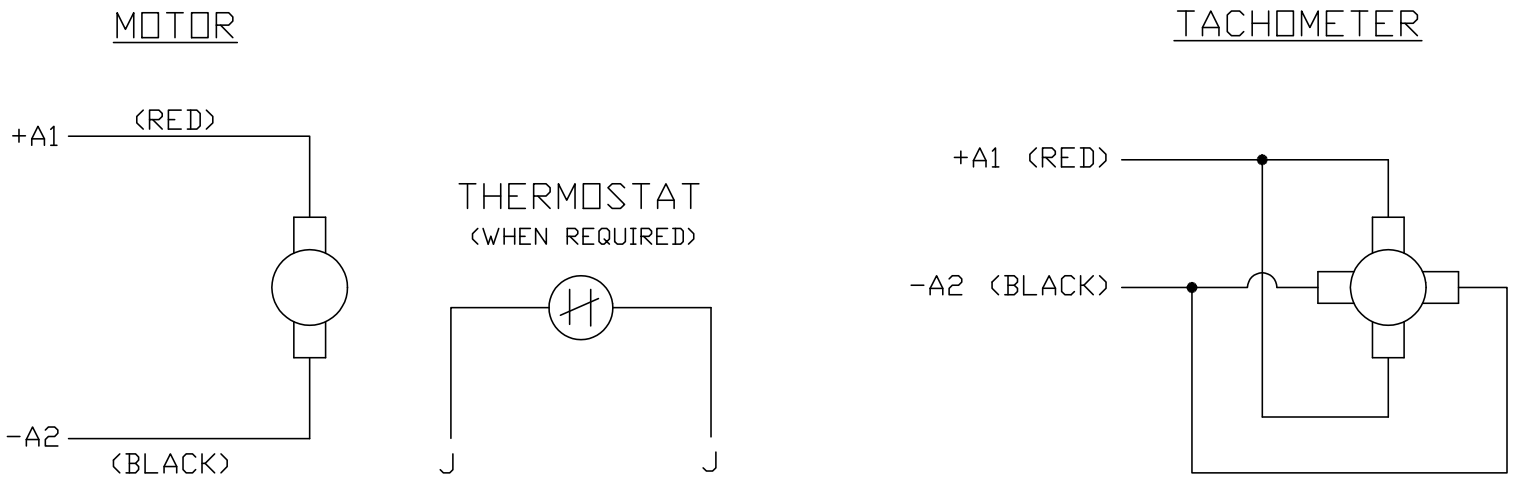
Load Characteristics at 180 Armature Volts

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
HP
ARM AMPS
EFF
%EFF
OUTPUT HP
RPM
ARM AMPS
FULL LOAD
TORQUE (LB-FT)
11/15/2026, DCPERF, VER 2.0.06, record 312


36LYP184
681 = 28.55[725]
5.81[148]
.79[20]
Ø8.60[218]
2.36[60]
.16[4]
8mm x 7mm KEY
1.50 LONG
Ø7.087
7.084 [180]
Ø9.75[248]
Ø 1.1027
1.1022
[28]
BRUSH INSPECTION
COVER (2 PLACES
@ 180°)
12 HOLES
Ø.41
4.50[114]
(NEMA 182 ATC)
.50[13]
5.50[140]
(NEMA 184 ATC)
4.51[114]
11.00[279] (NEMA 1810 ATC)
13.00[330] (NEMA 1810 ATC)
M10 x 1.5 TAP
1.00 DEEP
Ø7.88[200]
LEAD
HOLE
Ø 1.09
45°
45°
4.97[126]
10.51[267]
4.50[114]
4.44[113]
3.75[95]
3.75[95]
4.31[110]
4.31[110]
4 HOLES
Ø.562 [14.5]
Ø8.465 [215] B.C.
8.63[219]
6206
APPLY COAT OF
SEALER TO HOUSING
BEFORE PRESSING
SEAL IN
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE DIMENSIONS
REV: E
VERSION: 05
REVISED: 11:21:51 09/24/2026
TDR: 000001285331
MODEL NO. 36LYP184
REF: -
BY: ENJEFD0
B
BALDOR - RELIANCE®
STD HORZ 36PM 'ATC' TEFC HI-VOLT 681PM 1810ATC
36LYP184

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	