ABB BALDOR RELIANCE

Customer information packet

CDPWD3585

2HP, 1750RPM, DC, 145TC, 3548P, TEFC, F1
Class - None
Division -

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Specifications

Armature Voltage	180 V
Base Speed	1750 rpm
Enclosure	TEFC
Frame	145TC
Frame Material	Steel
Haz Area Class and Group	None
Output Power	2.000 HP
Agency Approvals	CE
	CSA
	UR
Ambient Temperature	40 °C
Armature Current	9.6 a
Armature Inertia	40.456 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	No Lifting Lugs
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	2 @ 14 AWG, A
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	18.17 IN
Product Family	Wash Down
Pulley End Bearing Type	Sealed Bearing
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End

Part Detail

Revision	AP
Type	DC
Mech. spec.	35P523
Base	
Status	PRD/A
Elec. spec.	35WGZ170
Layout	35LYP523
Eff. date	07-07-2025
CD Diagram	CD0194
Poles	00
Leads	2#14 A Y
Proprietary	False
Created date	01-01-0001

Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible: Connected Standard
Shaft Slinger Indicator	Shaft Slinger

Nameplate

NP1509							
CAT.NO.	CDPWD3585						
SPEC.	35P523Z170						
HP	2/KW1.4	**ENCL**	TEFC				
RPM	1750 1/MIN						
FRAME	145TC	**TYPE**	3548P				
ARM V	180	**ARM A**	9.6				
FLD V		**FLD A**					
INSUL	F	**AMB.**	40				
DUTY	CONT	**SUPPLY**	K				
BRG/DE	6205	**BRG/ODE**	6205				
BRUSHES	2/BP5000T15						
		BLANK					
SER.							
BLANK	IP55 KG33 IC411						
APRV-CSA	Y	**APRV-UL**	Y	**APRV-CE**	Y		

DC Motor Performance Data
Record # 2081
Typical performance - not guaranteed values

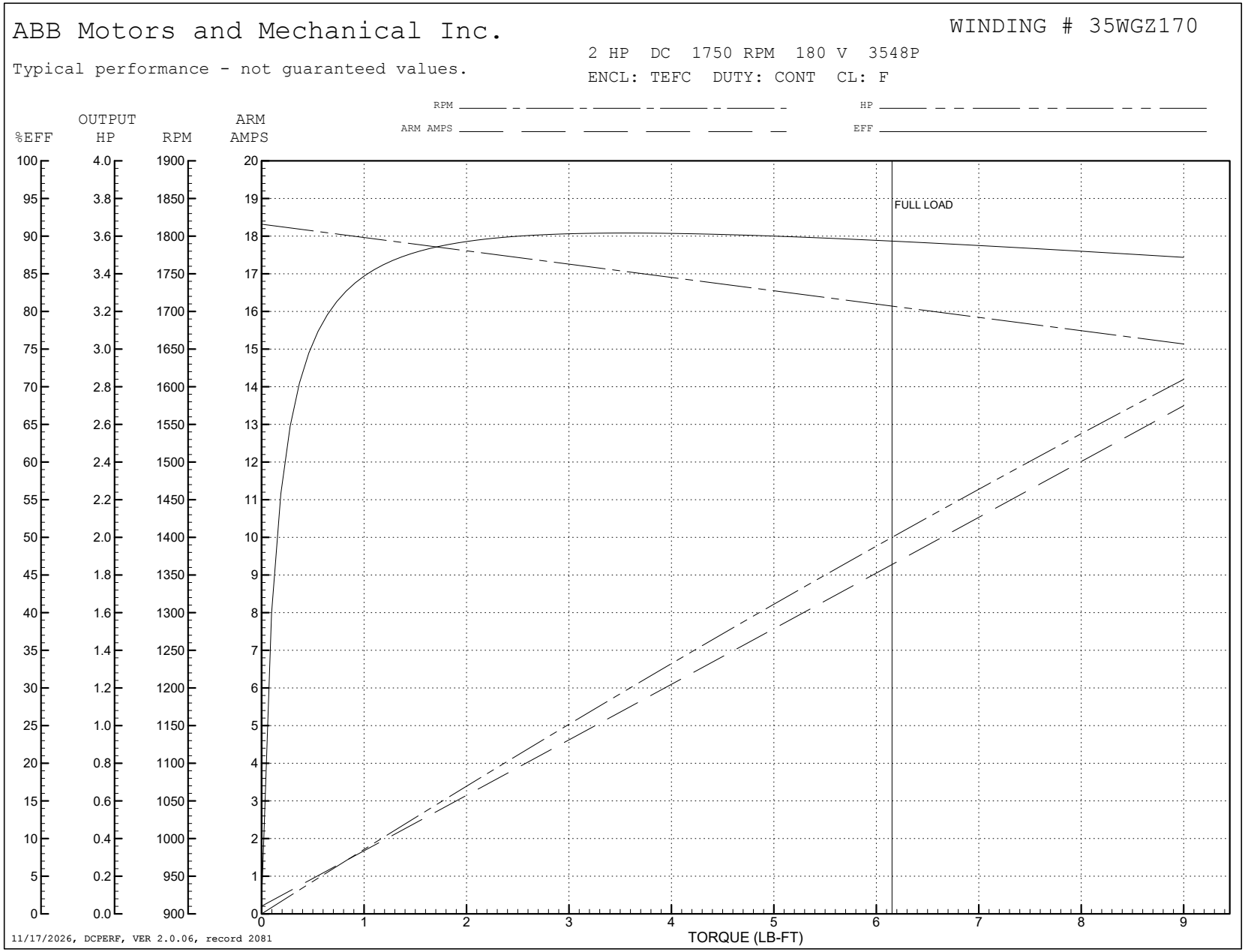
Winding: 35WGZ170-R001	**Type:** 3548P	**Enclosure:** TEFC

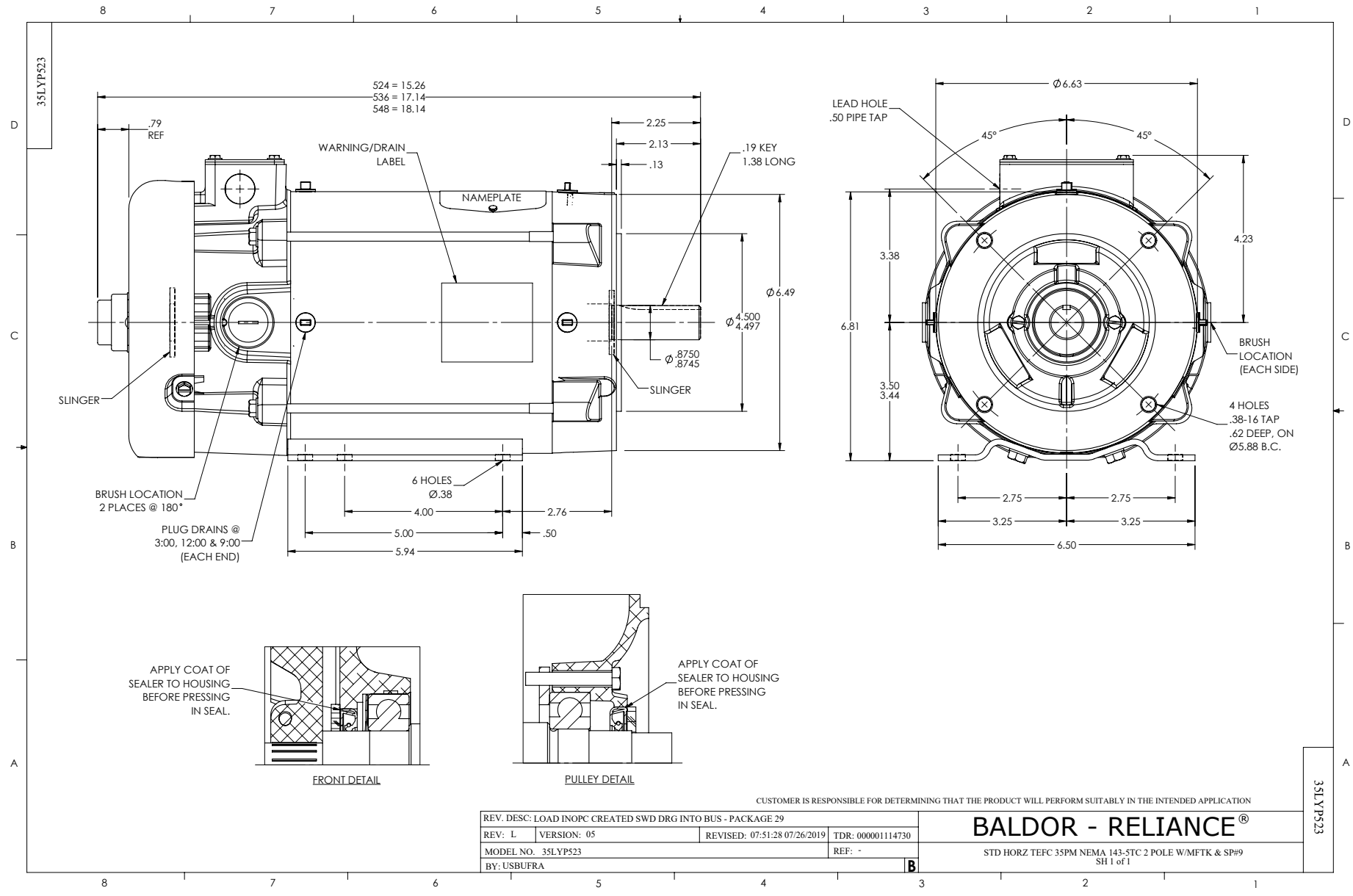
Nameplate Data	
Rated Output (HP)	2
R.P.M.	1750
Armature Volts	180
Armature Amps	9.6
Field Volts	
Field Amps	
Rating - Duty	40C AMB-CONT
Power Supply Code	K

General Characteristics	
Armature Resistance @ 25ºC	0.8093 Ω
Voltage Constant	98.25 v/krpm
Armature Inductance	11.508 mH
Armature Inertia	40.456 LI²

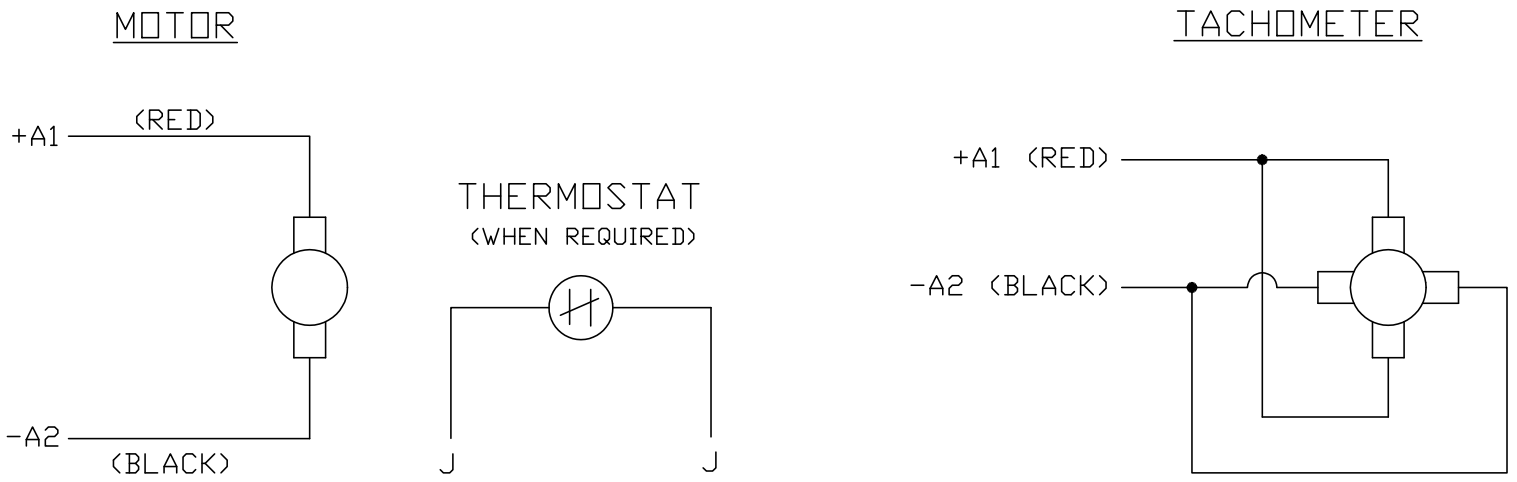
Load Characteristics at 180 Armature Volts

Load Point	**1**	**2**	**3**	**4**	**5**	**6**	**7**
Armature Amps	0.2	2.4	4.7	6.8	9	11.3	13.5
R.P.M.	1806	1796	1770	1741	1707	1671	1663
Torque (LB-FT)	0	1.5	3	4.5	6	7.5	9


ABB Motors and Mechanical Inc.
WINDING # 35WGZ170
Typical performance - not guaranteed values.
2 HP DC 1750 RPM 180 V 3548P
ENCL: TEFC DUTY: CONT CL: F
RPM
ARM AMPS
HP
EFF
%EFF
OUTPUT HP
RPM
ARM AMPS
FULL LOAD
TORQUE (LB-FT)
11/17/2026, DCPERF, VER 2.0.06, record 2081


35LYP523
524 = 15.26
536 = 17.14
548 = 18.14
.79 REF
WARNING/DRAIN LABEL
NAMEPLATE
2.25
2.13
.13
.19 KEY 1.38 LONG
Ø6.49
Ø4.500 4.497
Ø.8750 .8745
SLINGER
SLINGER
BRUSH LOCATION 2 PLACES @ 180°
PLUG DRAINS @ 3:00, 12:00 & 9:00 (EACH END)
6 HOLES Ø.38
4.00
2.76
5.00
.50
5.94
Ø6.63
LEAD HOLE .50 PIPE TAP
45°
45°
4.23
3.38
6.81
3.50 3.44
BRUSH LOCATION (EACH SIDE)
4 HOLES .38-16 TAP .62 DEEP, ON Ø5.88 B.C.
2.75
2.75
3.25
3.25
6.50
APPLY COAT OF SEALER TO HOUSING BEFORE PRESSING IN SEAL.
FRONT DETAIL
APPLY COAT OF SEALER TO HOUSING BEFORE PRESSING IN SEAL.
PULLEY DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD INOPC CREATED SWD DRG INTO BUS - PACKAGE 29
REV: L
VERSION: 05
REVISED: 07:51:28 07/26/2019
TDR: 000001114730
MODEL NO. 35LYP523
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
STD HORZ TEFC 35PM NEMA 143-5TC 2 POLE W/MFTK & SP#9
SH 1 of 1
35LYP523

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	