ABB BALDOR RELIANCE

Customer information packet

CDPT3585

2HP, 1750RPM, DC, 143TC, 3548P, TEFC, F1, N
Class - None
Division - Not Applicable

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Specifications

Armature Voltage	180 V
Base Speed	1750 rpm
Enclosure	TEFC
Frame	143TC
Frame Material	Steel
Haz Area Class and Group	None
Output Power	2.000 HP
Agency Approvals	CE
	CSA
	UR
	WEEE
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	TACHOMETER
Haz Area Division	Not Applicable
Heater Indicator	No Heater
Insulation Class	F
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	2 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	20.25 IN
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
RoHS Status	ROHS COMPLIANT
Service Factor	1.00

Part Detail

Revision	E
Type	DC
Mech. spec.	35P1188
Base	
Status	PRD/A
Elec. spec.	35WGZ170
Layout	35LYP1188
Eff. date	10-28-2024
CD Diagram	CD0194
Poles	00
Leads	
Proprietary	False
Created date	06-18-2019

Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger

Nameplate

NP0891L					
CAT.NO.	CDPT3585				
SPEC.	35P1188Z170				
HP	2/KW1.5	**ENCL**	TEFC		
RPM	1750 1/MIN				
FRAME	143TC	**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	IP44		
SER.					
BLANK	IC411 KG35				
APRV-CE	Y	**APRV-CSA**	Y	**APRV-UL**	Y

E

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

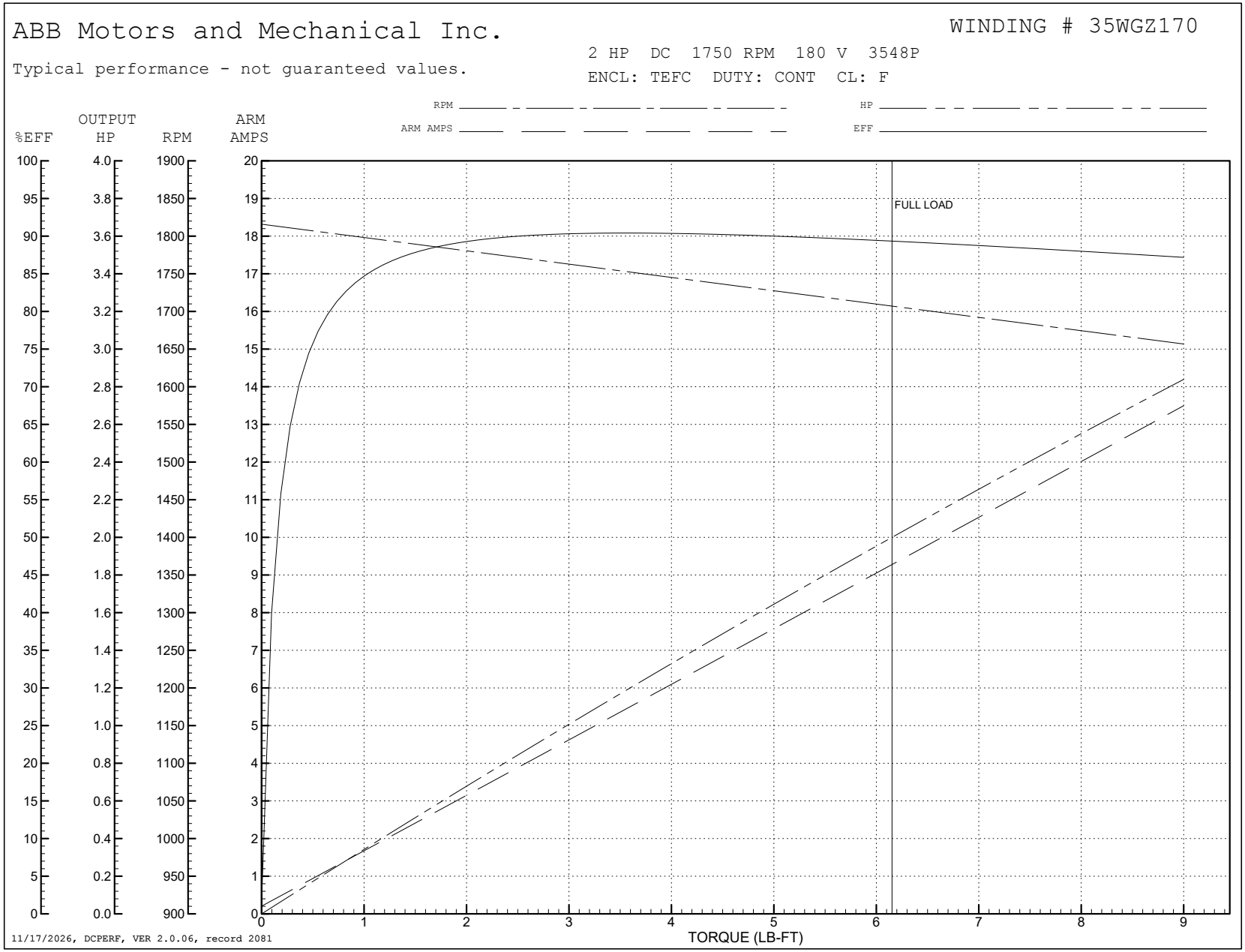
Winding: 35WGZ170-R001	**Type:** 3548P	**Enclosure:** TEFC

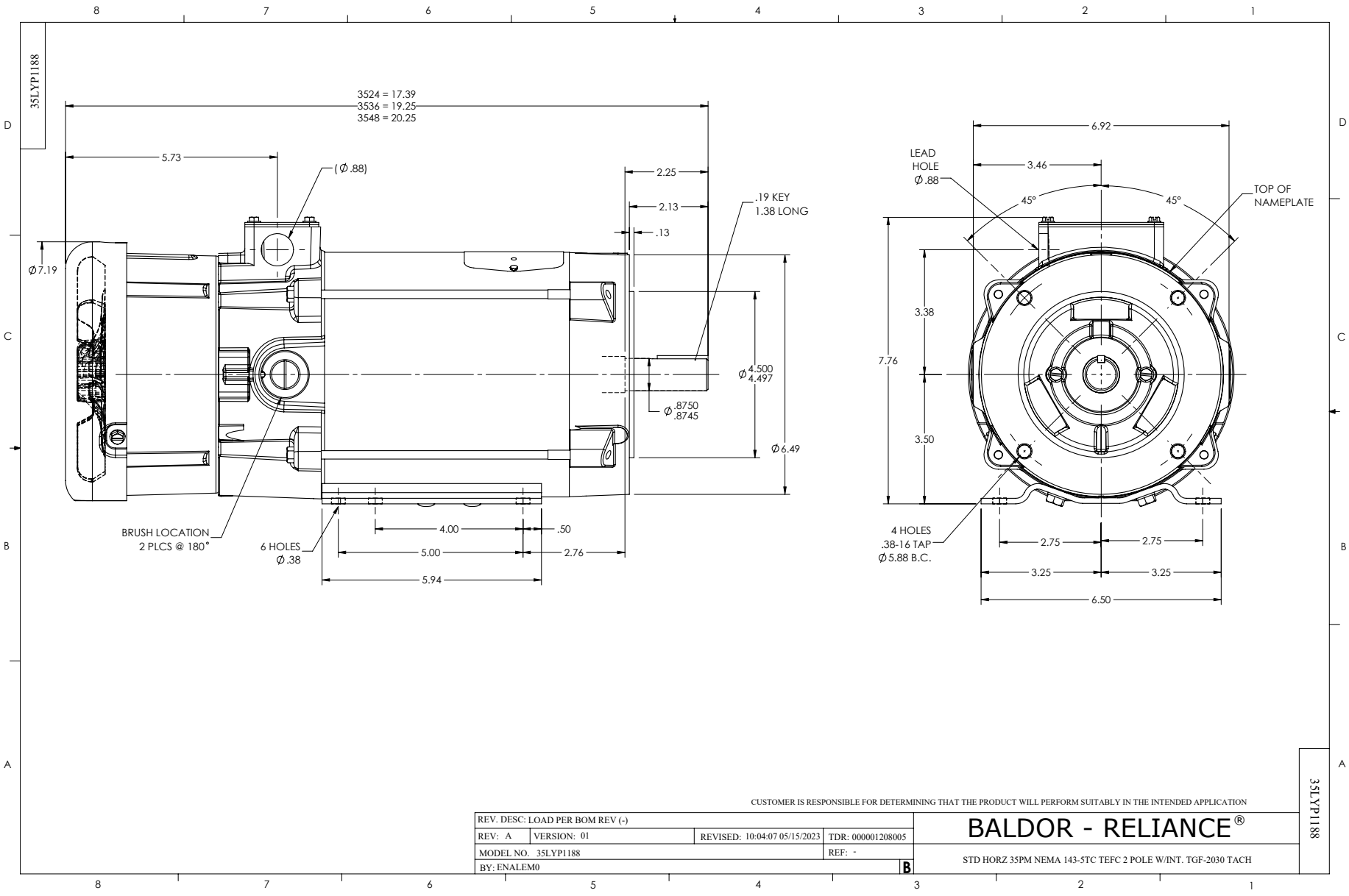
Nameplate Data	
Rated Output (HP)	2
R.P.M.	1750
Armature Volts	180
Armature Amps	9.6
Field Volts	
Field Amps	
Rating - Duty	40C AMB-CONT
Power Supply Code	K

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

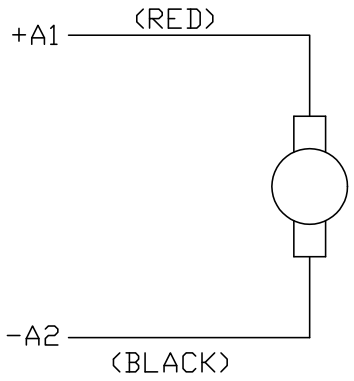
Load Point	**1**	**2**	**3**	**4**	**5**	**6**	**7**
Armature Amps	0.2	2.4	4.7	6.8	9	11.3	13.5
R.P.M.	1806	1796	1770	1741	1707	1671	1663
Torque (LB-FT)	0	1.5	3	4.5	6	7.5	9


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

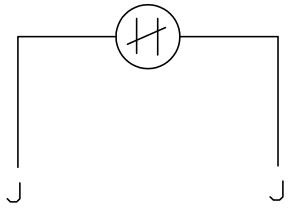

35LYP1188
3524 = 17.39
3536 = 19.25
3548 = 20.25
5.73
(Ø.88)
2.25
2.13
.13
.19 KEY
1.38 LONG
Ø7.19
Ø4.500
4.497
Ø.8750
.8745
Ø6.49
BRUSH LOCATION
2 PLCS @ 180°
6 HOLES
Ø.38
4.00
.50
5.00
2.76
5.94
6.92
LEAD
HOLE
Ø.88
3.46
45°
45°
TOP OF
NAMEPLATE
3.38
7.76
3.50
4 HOLES
.38-16 TAP
Ø5.88 B.C.
2.75
2.75
3.25
3.25
6.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD PER BOM REV (-)
REV: A
VERSION: 01
REVISED: 10:04:07 05/15/2023
TDR: 000001208005
MODEL NO. 35LYP1188
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD HORZ 35PM NEMA 143-5TC TEFC 2 POLE W/INT. TGF-2030 TACH
35LYP1188

CD0194

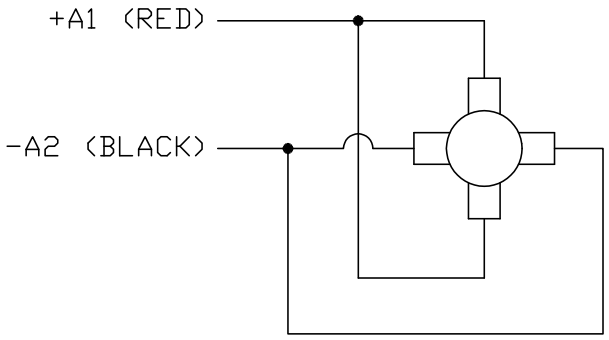
MOTOR



THERMOSTAT
(WHEN REQUIRED)



TACHOMETER



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	