

ABB BALDOR RELIANCE III

Customer information packet

CDPT3585

2HP, 1750RPM, DC, 143TC, 3548P, TEFC, F1, N

Class - None

Division - Not Applicable

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-ft ²
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

DC Motor Performance Data

Record # 2081

Typical performance - not guaranteed values

Winding: 35WGZ170-R001		Type: 3548P	Enclosure: TEFC
Nameplate Data		General Characteristics	
Rated Output (HP)	2	Armature Resistance @ 25°C	0.8093 Ω
R.P.M.	1750		
Armature Volts	180	Voltage Constant	98.25 v/krpm
Armature Amps	9.6		
Field Volts		Armature Inductance	11.508 mH
Field Amps		Armature Inertia	40.456 LI ²
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	0.2	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

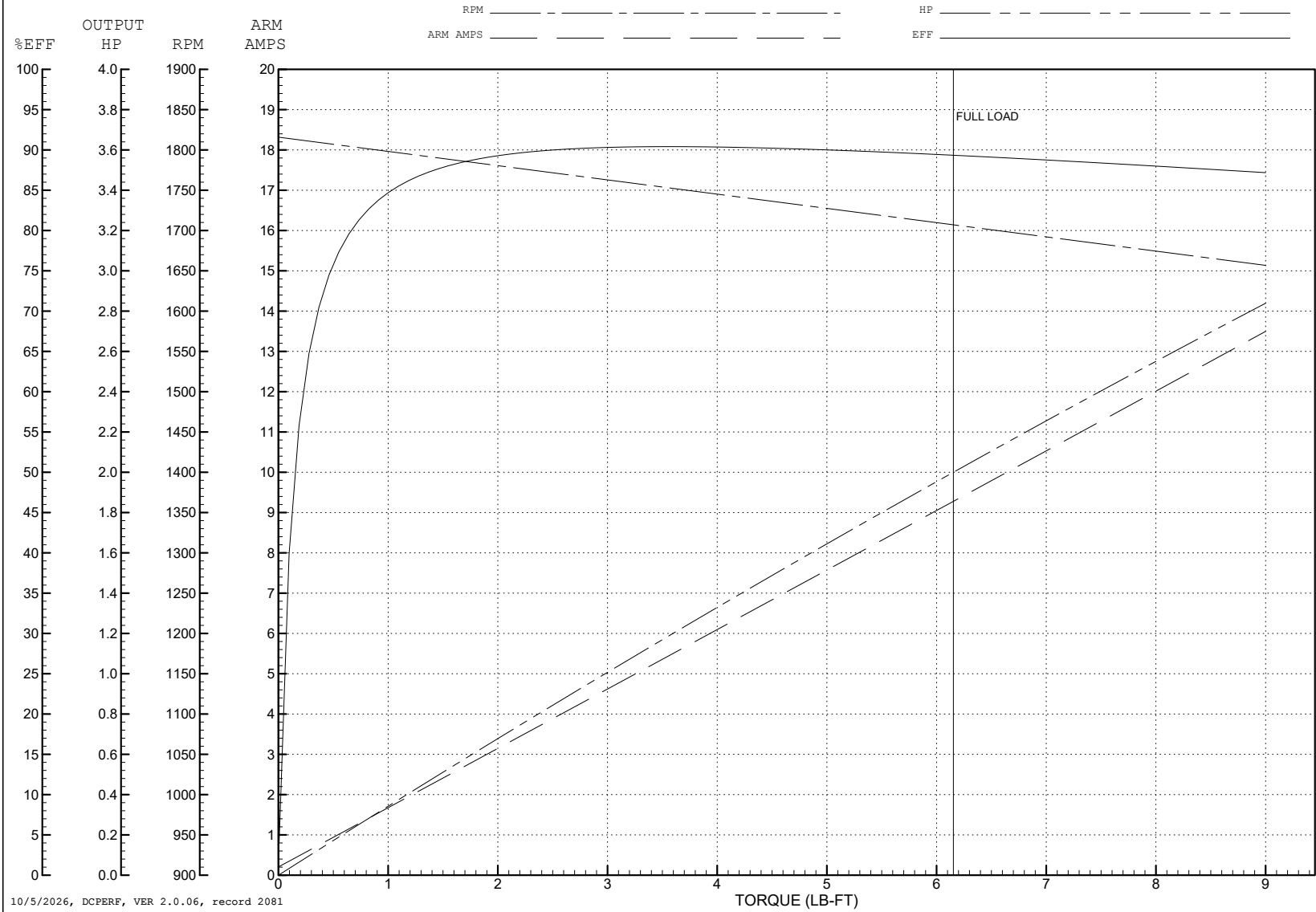
ABB Motors and Mechanical Inc.

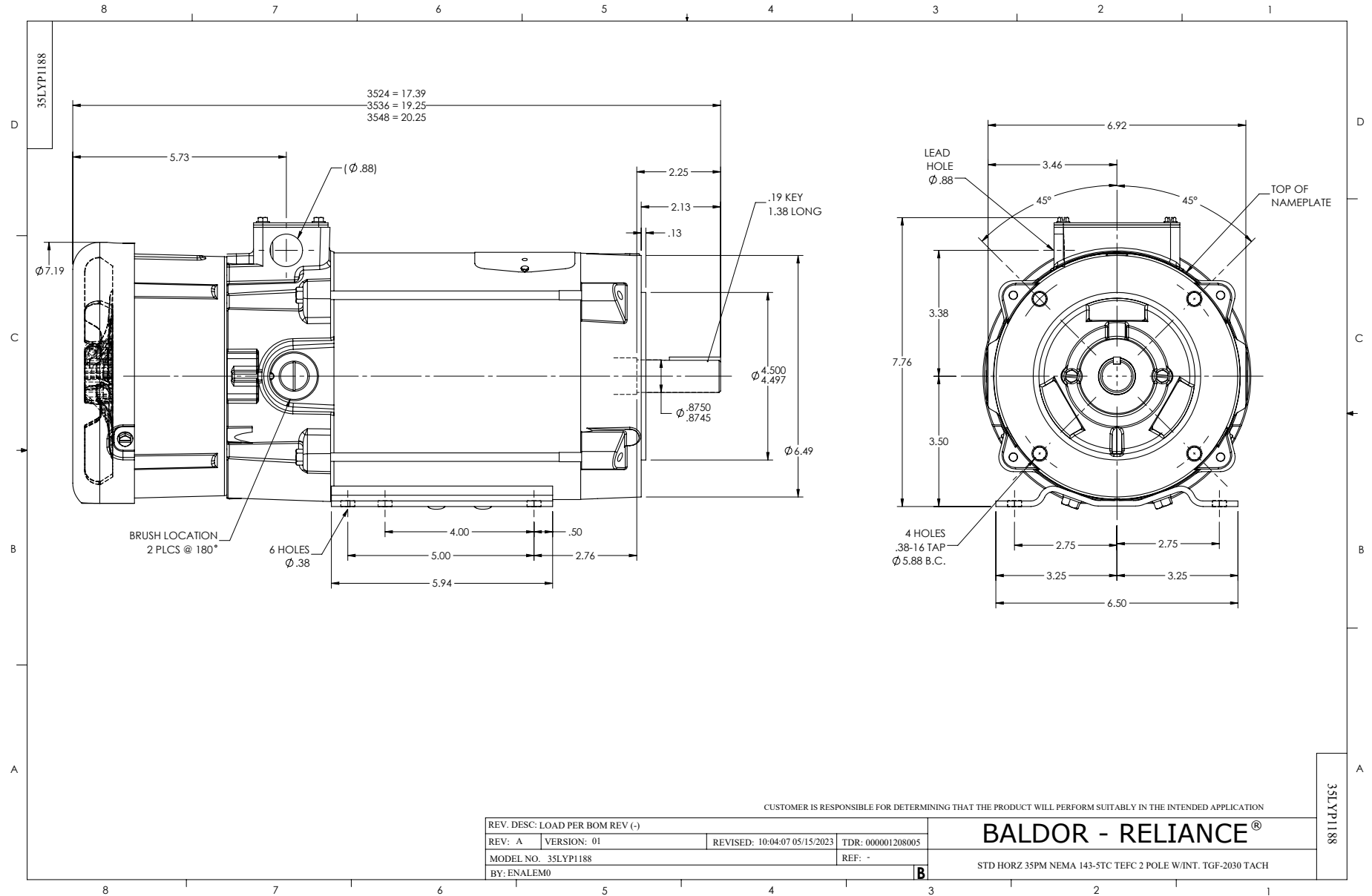
WINDING # 35WGZ170

Typical performance - not guaranteed values.

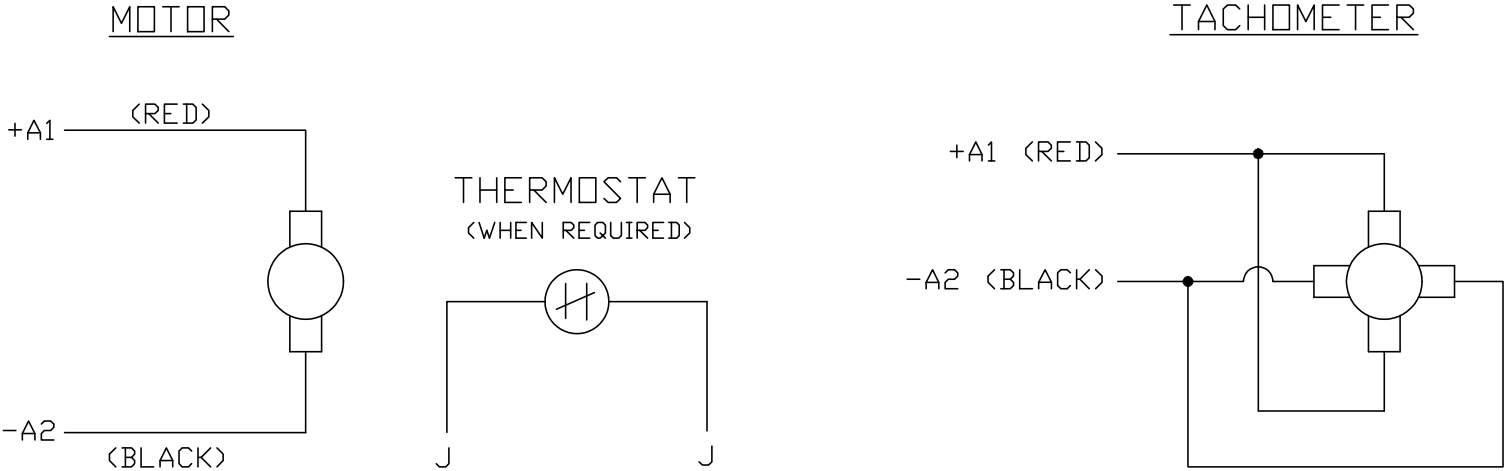
2 HP DC 1750 RPM 180 V 3548P

ENCL: TEFC DUTY: CONT CL: F





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
		FILE: AAA00004503	TDR: 0078737

BALDOR ELECTRIC Co.

CD TYPE P DC PERMANENT MAGNET MOTORS AND TACHOMETERS

CD0194