

ABB BALDOR RELIANCE III

Customer information packet

CDP3580

1.5HP, 2500RPM, DC, 145TC, 3524P, TEFC, F1

Class - None

Division -

Specifications

Armature Voltage	180 V
Base Speed	2500 rpm
Enclosure	TEFC
Frame	145TC
Frame Material	Steel
Haz Area Class and Group	None
Output Power	1.500 HP
Agency Approvals	CE CSA UR
Ambient Temperature	40 °C
Armature Current	7.0 a
Armature Inertia	20.228 lb-ft ²
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
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	14.50 IN
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding

Part Detail

Revision	X
Type	DC
Mech. spec.	35P432
Base	
Status	PRD/A
Elec. spec.	35WGZ183
Layout	35LYP432
Eff. date	09-02-2026
CD Diagram	CD0194
Poles	00
Leads	
Proprietary	False
Created date	01-01-0001

Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger

Nameplate

NP0891L					
CAT.NO.	CDP3580				
SPEC.	35P432Z183				
HP	1.5/KW1.1	ENCL		TEFC	
RPM	2500 1/MIN				
FRAME	145TC	TYPE		3524P	
ARM V	180	ARM A		7	
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 KG28				
APRV-CE	Y	APRV-CSA	Y	APRV-UL	Y

Accessories

Part number	Description	Multiplier
TK3500	TACHO MOUTING KIT TK3500	A8

DC Motor Performance Data

Record # 355

Typical performance - not guaranteed values

Winding: 35WGZ183-R003		Type: 3524P	Enclosure: TEFC
Nameplate Data		General Characteristics	
Rated Output (HP)	1.5	Armature Resistance @ 25°C	1.04 Ω
R.P.M.	2500		
Armature Volts	180		
Armature Amps	7		
Field Volts		Armature Inductance	12.01 mH
Field Amps			
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	0.4	1.7	3.2	5	6.4	7.9	9.4
R.P.M.	2485	2445	2407	2378	2345	2305	2264
Torque (LB-FT)	0	0.75	1.5	2.375	3.125	3.875	4.625

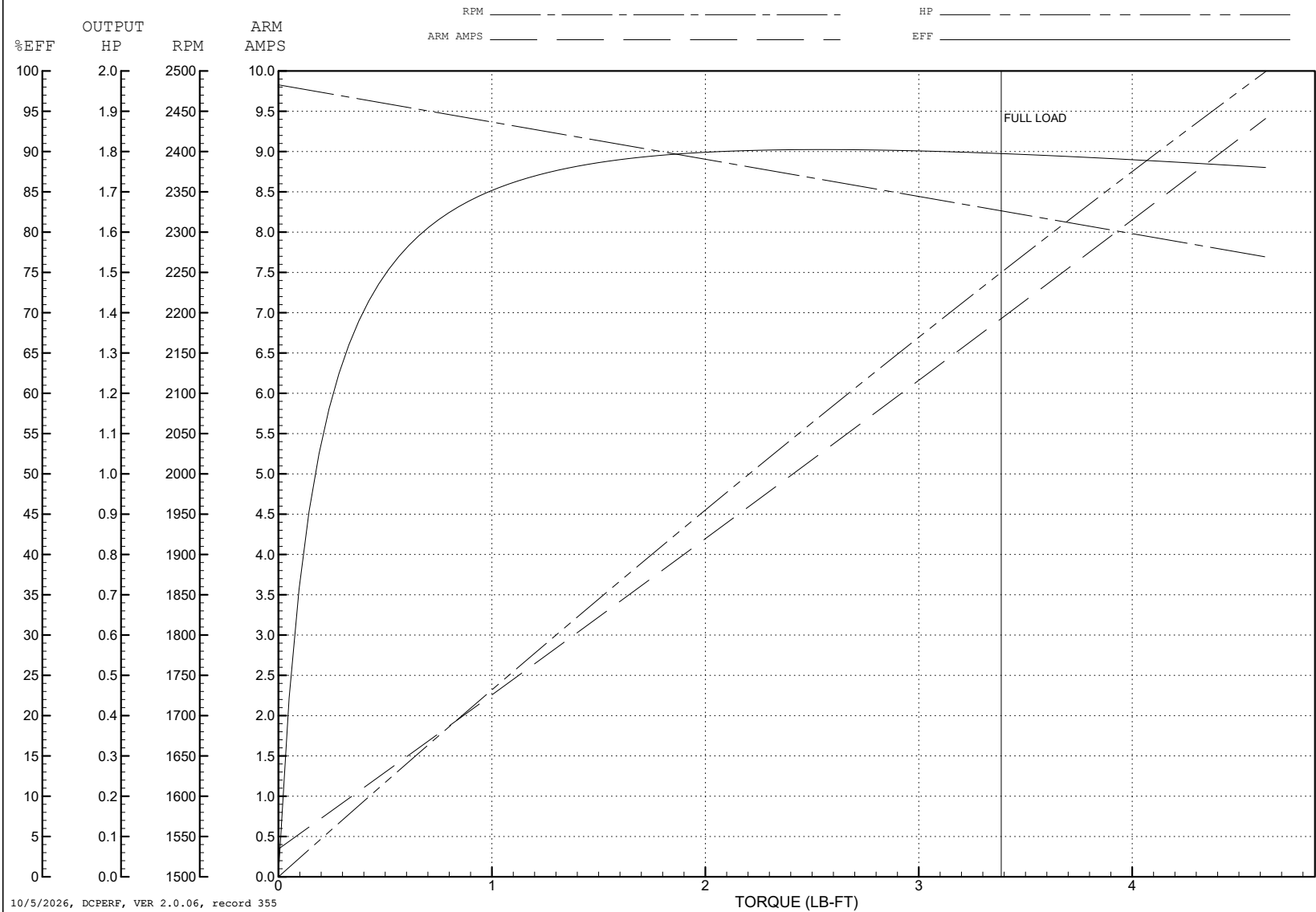
ABB Motors and Mechanical Inc.

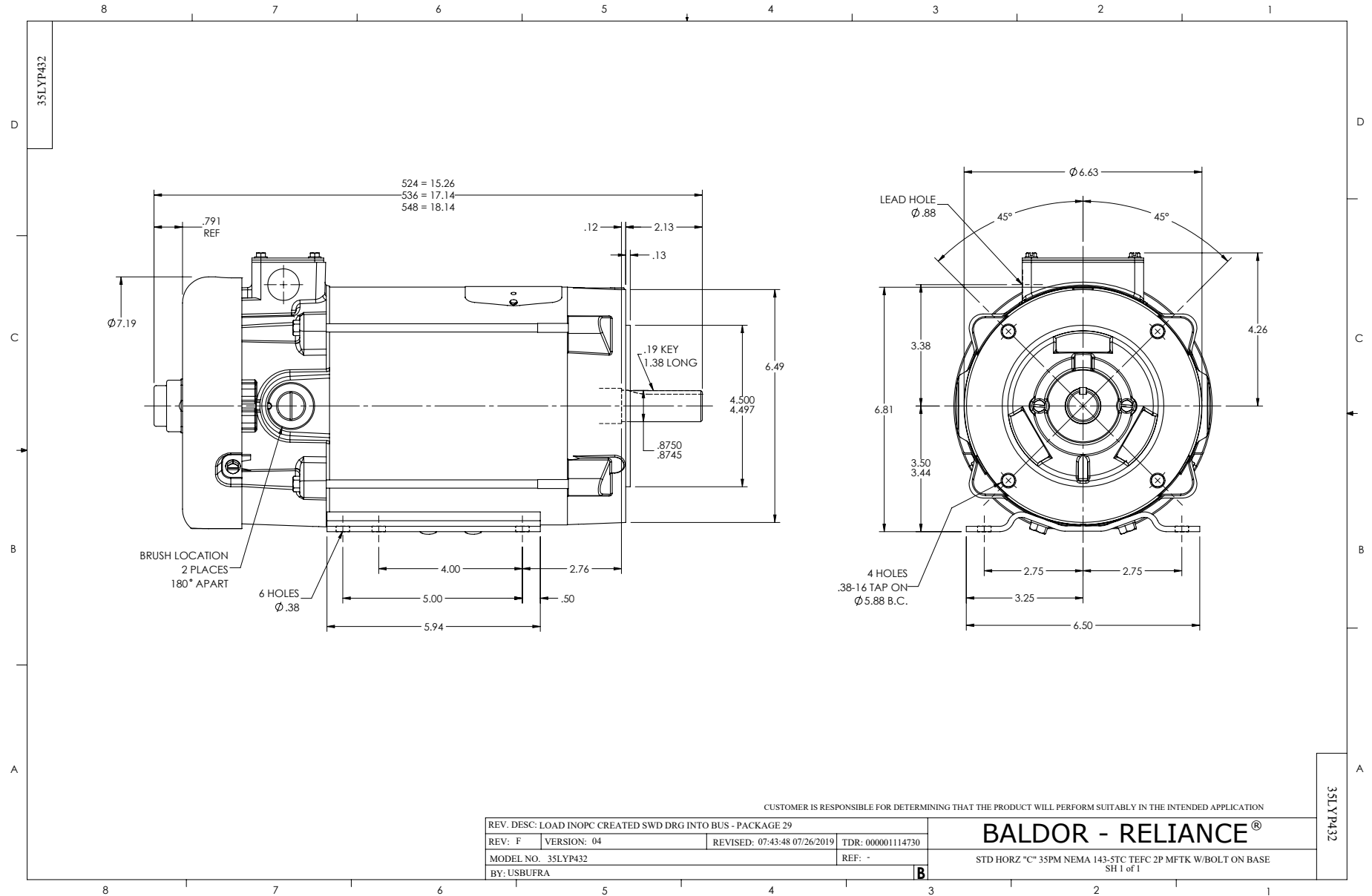
WINDING # 35WGZ183

Typical performance - not guaranteed values.

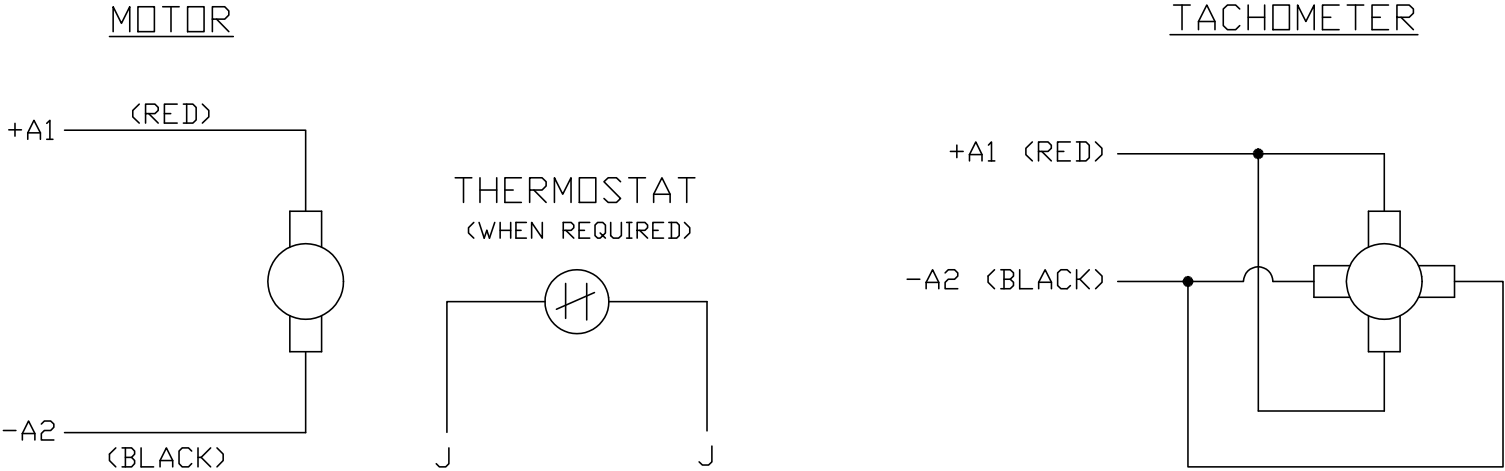
1.5 HP DC 2500 RPM 180 V 3524P

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