

ABB BALDOR RELIANCE III

Customer information packet

CDPWD3575

1.5HP, 1750RPM, DC, 145TC, 3536P, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Armature Voltage	180 V
Base Speed	1750 rpm
Enclosure	TEFC
Frame	145TC
Frame Material	Steel
Haz Area Class and Group	None
Output Power	1.500 HP
Agency Approvals	CE
	CSA
	UR
	WEEE
Ambient Temperature	40 °C
Armature Current	7.7 a
Armature Inertia	30.342 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
Haz Area Division	Not Applicable
Heater Indicator	No Heater
Insulation Class	F
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	17.17 IN
Product Family	Wash Down
Pulley End Bearing Type	Sealed Bearing
RoHS Status	ROHS COMPLIANT

Part Detail

Revision	AP
Type	DC
Mech. spec.	35P523
Base	
Status	PRD/A
Elec. spec.	35WGZ164
Layout	35LYP523
Eff. date	07-07-2025
CD Diagram	CD0194
Poles	00
Leads	2#14 A Y
Proprietary	False
Created date	01-01-0001

Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible: Connected Standard
Shaft Slinger Indicator	Shaft Slinger

Nameplate

NP1509			
CAT.NO.	CDPWD3575		
SPEC.	35P523Z164		
HP	1.5	ENCL	TEFC
RPM	1750		
FRAME	145TC	TYPE	3536P
ARM V	180	ARM A	7.7
FLD V		FLD A	
INSUL	F	AMB.	40
DUTY	CONT	SUPPLY	K
BRG/DE	6205	BRG/ODE	6205
BRUSHES	2/BP5000T15		
	IC411	BLANK	1/MIN
SER.			
BLANK	IP55 KW 1.12 KG 29		
APRV-CSA		APRV-UL	APRV-CE

DC Motor Performance Data

Record # 388

Typical performance - not guaranteed values

Winding: 35WGZ164-R001		Type: 3536P	Enclosure: TEFC
Nameplate Data		General Characteristics	
Rated Output (HP)	1.5	Armature Resistance @ 25°C	0.965 Ω
R.P.M.	1750		
Armature Volts	180	Voltage Constant	97.47 v/krpm
Armature Amps	7.7		
Field Volts		Armature Inductance	12.959 mH
Field Amps		Armature Inertia	30.342 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	0.5	3.6	5.4	7	8.5	10.2	12
R.P.M.	1819	1762	1727	1701	1682	1661	1632
Torque (LB-FT)	0	2.25	3.375	4.5	5.625	6.75	7.875

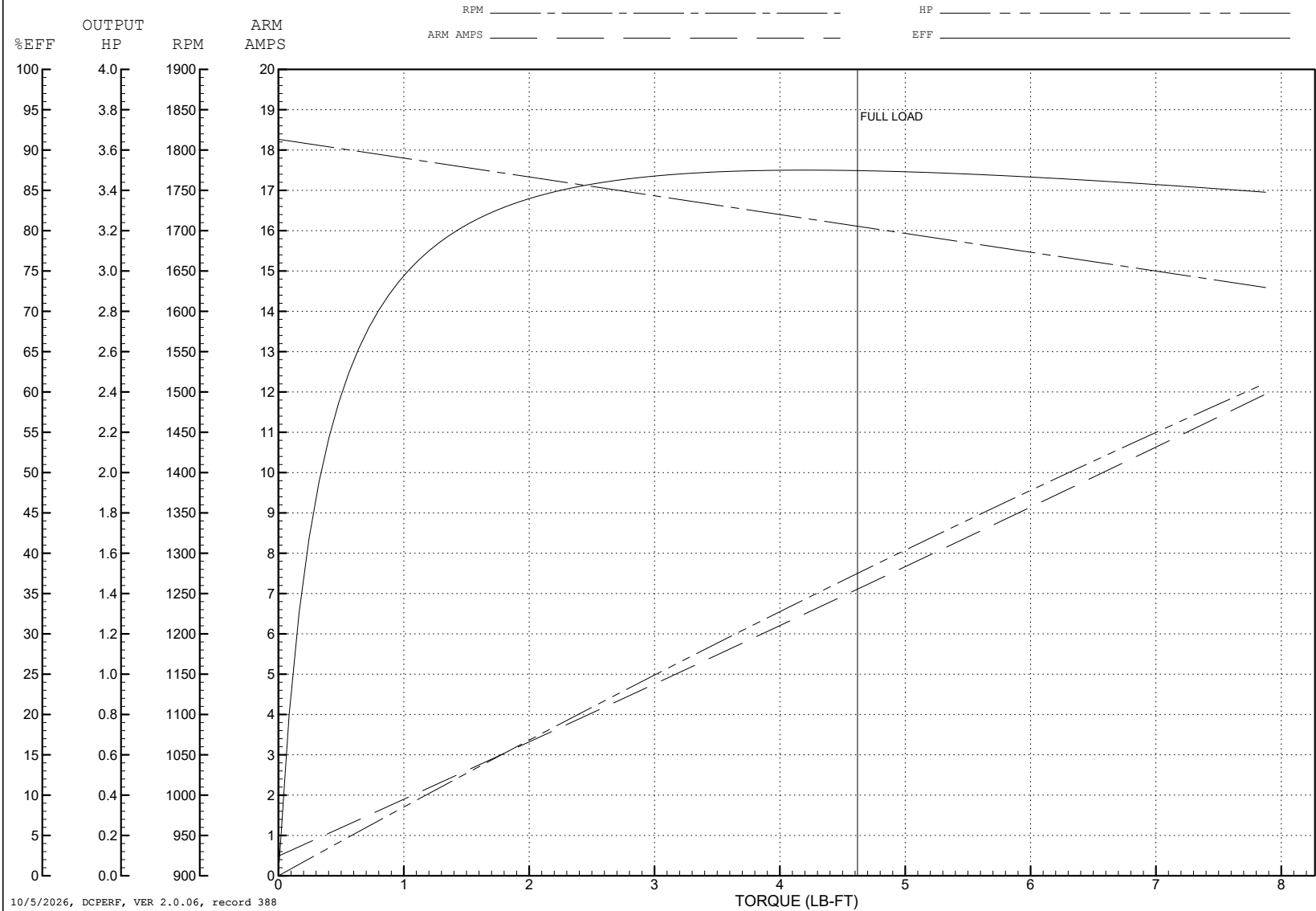
ABB Motors and Mechanical Inc.

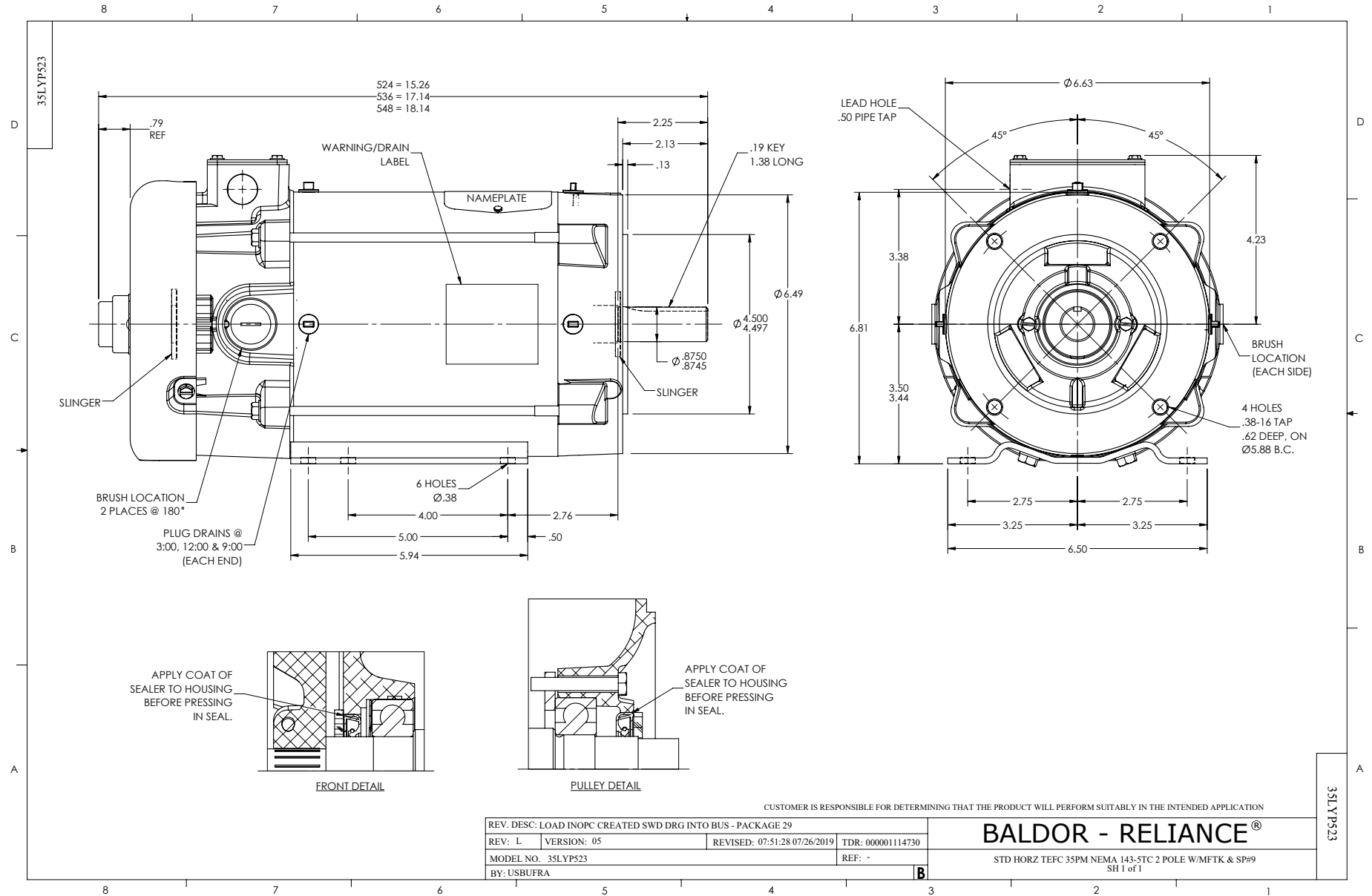
WINDING # 35WGZ164

Typical performance - not guaranteed values.

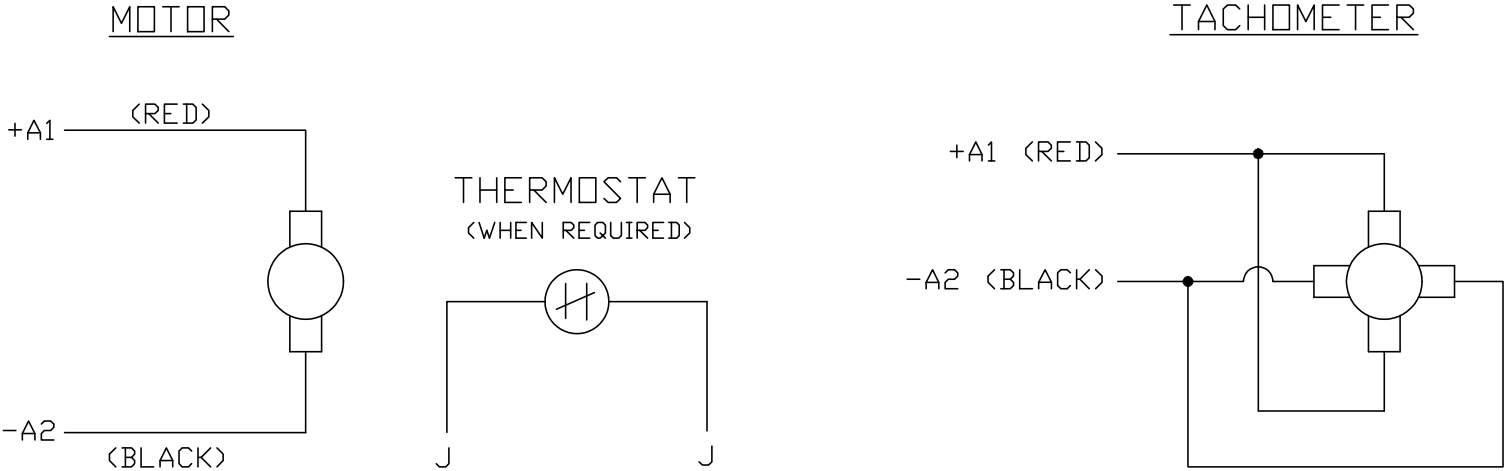
1.5 HP DC 1750 RPM 180 V 3536P

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: -					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		

CD0194