

ABB BALDOR RELIANCE III

Customer information packet

CDPX3545

1HP, 1750RPM, DC, 56C, X3536P, XPFC, F1

Class - CLI GP D; CLII GP F,G

Division -

Specifications

Armature Voltage	90 V
Base Speed	1750 rpm
Enclosure	XPFC
Frame	56C
Frame Material	Steel
Haz Area Class and Group	CLI GP D; CLII GP F,G
Output Power	1.000 HP
Agency Approvals	CSA UL UR
Ambient Temperature	40 °C
Armature Current	9.6 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 Temp Code	T3C
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	18.36 IN
Product Family	Hazardous Location Motor
Pulley End Bearing Type	Sealed Bearing
Service Factor	1.00
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End

Part Detail

Revision	AH
Type	DC
Mech. spec.	35P565
Base	
Status	PRD/A
Elec. spec.	35WGZ235
Layout	35LYP565
Eff. date	06-18-2026
CD Diagram	CD0194
Poles	00
Leads	
Proprietary	False
Created date	01-01-0001

Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger

Nameplate

NP0727XPSL				
NO.				
SER.				
SPEC.	35P565Z235G1			
CAT.NO.	CDPX3545	T. CODE		T3C
HP	1	ENCL	XPFC	
RPM	1750			
FRAME	56C	TYPE	3536P	
ARM V	90	ARM A	9.6	
FLD V		FLD A		
INSUL	F	AMB.	40	
DUTY	CONT	SUPPLY	K	
BRG/DE	6205	BRG/ODE	6203	
BRUSHES	2/BP5035C01			
BLANK				

DC Motor Performance Data

Record # 1414

Typical performance - not guaranteed values

Winding: 35WGZ235-R011		Type: 3536P		Enclosure: TEFC	
Nameplate Data		General Characteristics			
Rated Output (HP)	1	Armature Resistance @ 25°C		0.245 Ω	
R.P.M.	1750				
Armature Volts	90	Voltage Constant		50.01 v/krpm	
Armature Amps	9.6				
Field Volts		Armature Inductance		3.789 mH	
Field Amps		Armature Inertia		30.3419 LI²	
Rating - Duty	40C AMB-CONT				
Power Supply Code	K				

Load Characteristics at 90 Armature Volts

Load Point	1	2	3	4	5	6	7
Armature Amps	1	3.3	4.5	8	10.1	12.3	14.8
R.P.M.	1930	1926	1919	1865	1850	1756	1745
Torque (LB-FT)	0	0.75	1.15	2.25	3	3.75	4.5

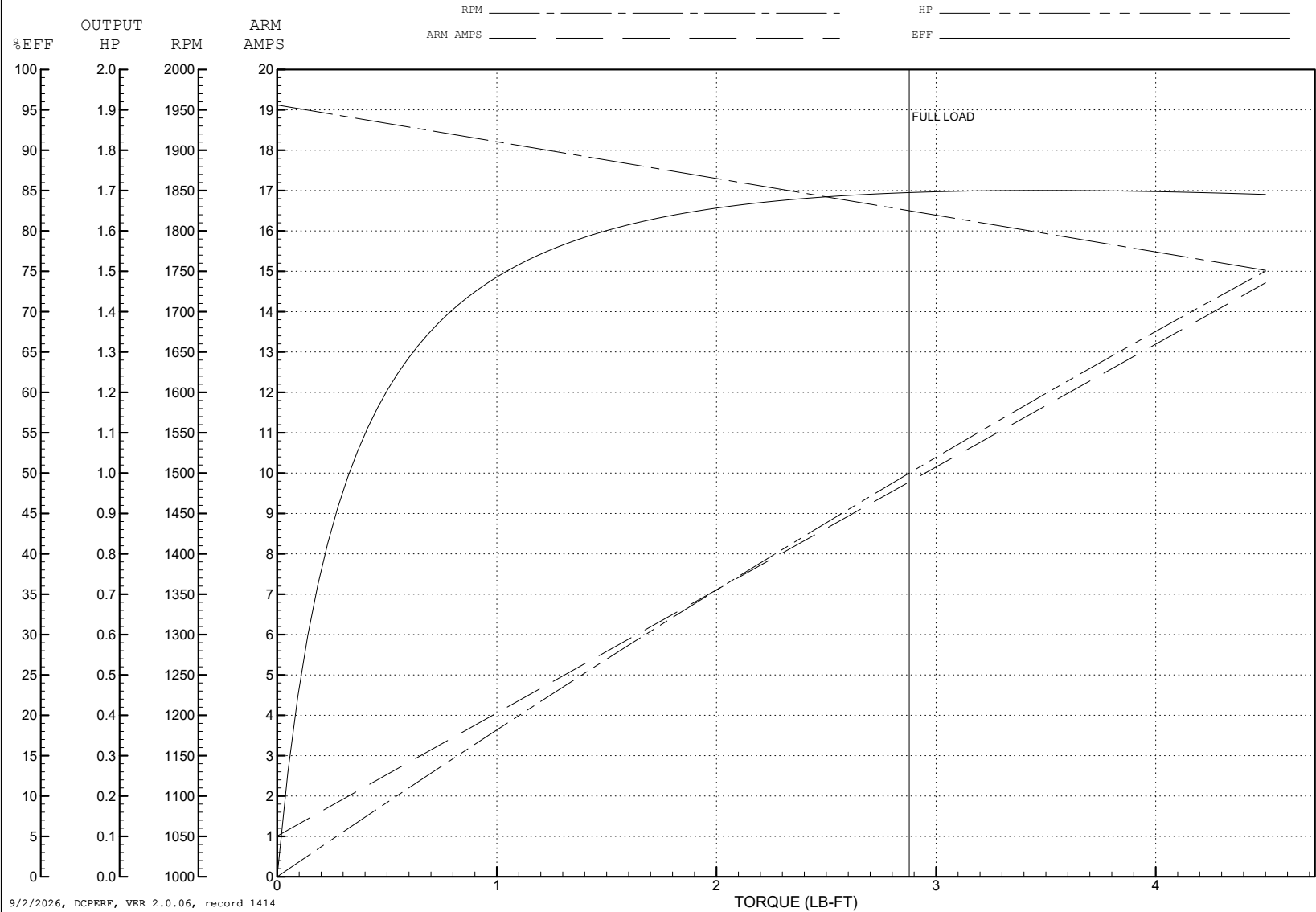
ABB Motors and Mechanical Inc.

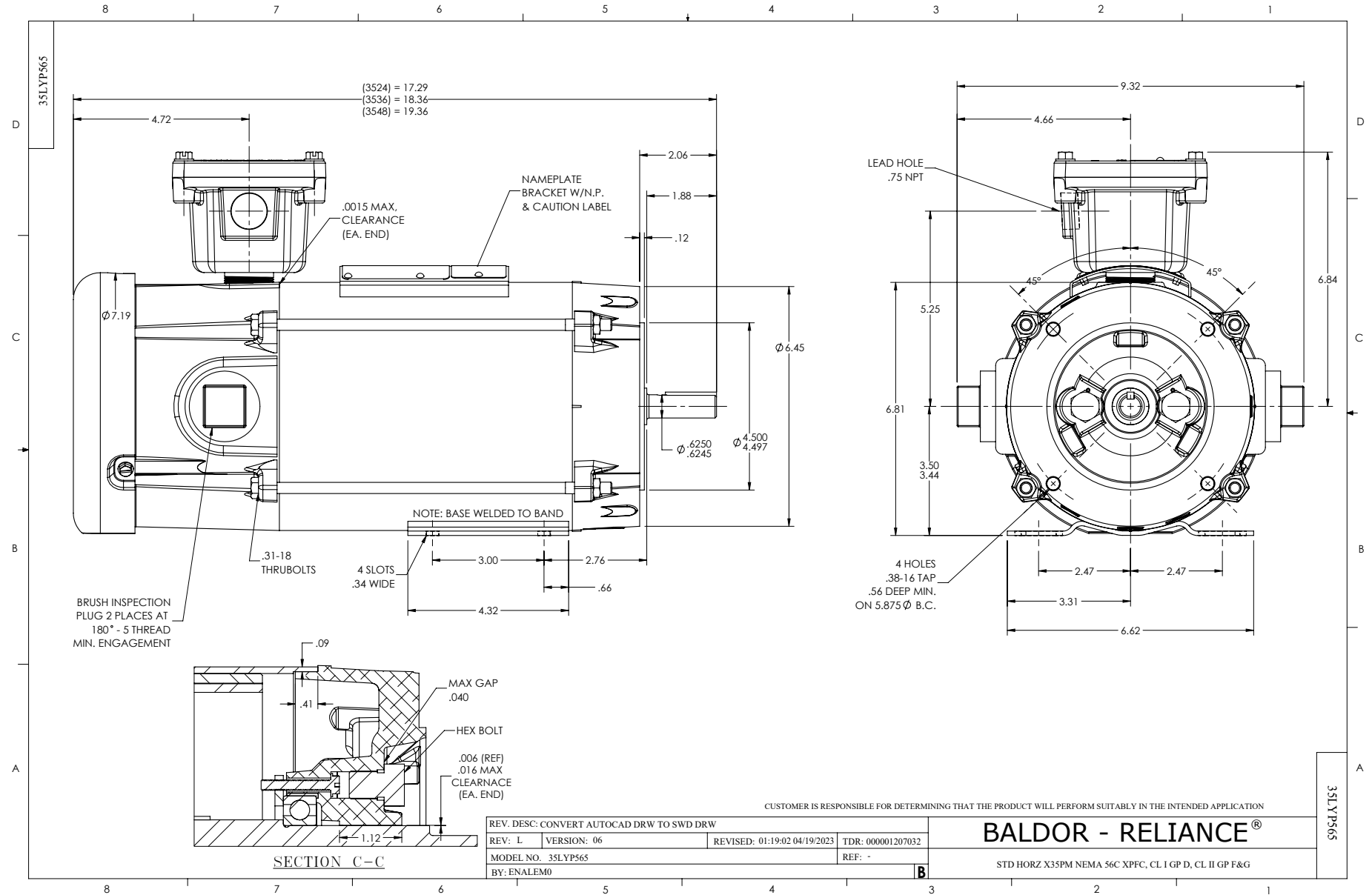
WINDING # 35WGZ235

Typical performance - not guaranteed values.

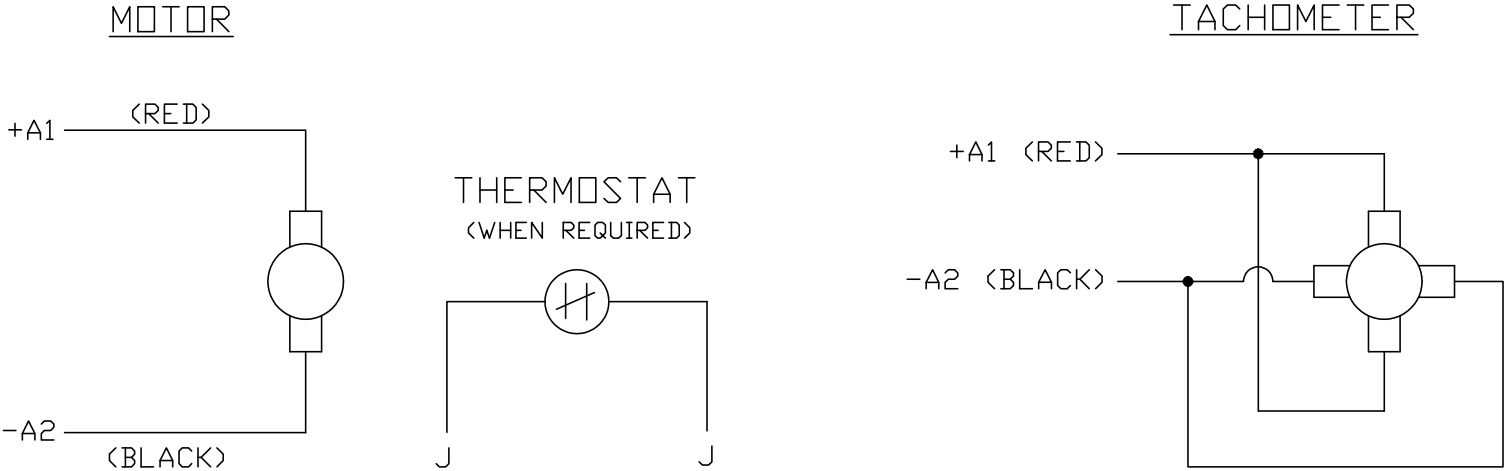
1 HP DC 1750 RPM 90 V 3536P

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: -			
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