

ABB BALDOR RELIANCE III

Customer information packet

CDP3450

1HP, 2500RPM, DC, 56C, 3428P, TEFC, F1

Class - None

Division -

Specifications

Armature Voltage	90 V
Base Speed	2400 rpm
Enclosure	TEFC
Frame	56C
Frame Material	Steel
Haz Area Class and Group	None
Output Power	1.000 HP
Agency Approvals	CE CSA UR
Ambient Temperature	40 °C
Armature Current	9.7 a
Armature Inertia	10.926 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	14.59 IN
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Service Factor	1.00
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding

Part Detail

Revision	AE
Type	DC
Mech. spec.	34-5990
Base	
Status	PRD/A
Elec. spec.	34WG3763
Layout	34LY5990
Eff. date	10-25-2024
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.	CDP3450				
SPEC.	34-5990-3763				
HP	1/.75KW	ENCL		TEFC	
RPM	2500 1/MIN				
FRAME	56C	TYPE		3428P	
ARM V	90	ARM A		9.7	
FLD V		FLD A			
INSUL	F	AMB.		40	
DUTY	S1 CONT	SUPPLY		1.5	
BRG/DE	6203	BRG/ODE		6203	
BRUSHES	2/BP5000BK08				
		BLANK		IP44	
SER.					
BLANK	IC411 13KG				
APRV-CE	Y	APRV-CSA	Y	APRV-UL	Y

Accessories

Part number	Description	Multiplier
TK3400	TACHO MOUNTING KIT FOR TK3400	A8
TK3400-HPU	HPU10 MOUNTING KIT 34P/35P TEFC	

DC Motor Performance Data

Record # 353

Typical performance - not guaranteed values

Winding: 34WG3763-R001		Type: 3428P	Enclosure: TEFC
Nameplate Data		General Characteristics	
Rated Output (HP)	1	Armature Resistance @ 25°C	0.425 Ω
R.P.M.	2500		
Armature Volts	90		
Armature Amps	9.7		
Field Volts			
Field Amps			
Rating - Duty	40C AMB-CONT		
Form Factor	1.5		

Load Characteristics at 90 Armature Volts

Load Point	1	2	3	4	5	6	7
Armature Amps	0.7	4.7	9.8	14.7	19.7	24.8	29.3
R.P.M.	2699	2621	2547	2447	2363	2291	2204
Torque (LB-FT)	0	1	2.125	3.25	4.375	5.5	6.5

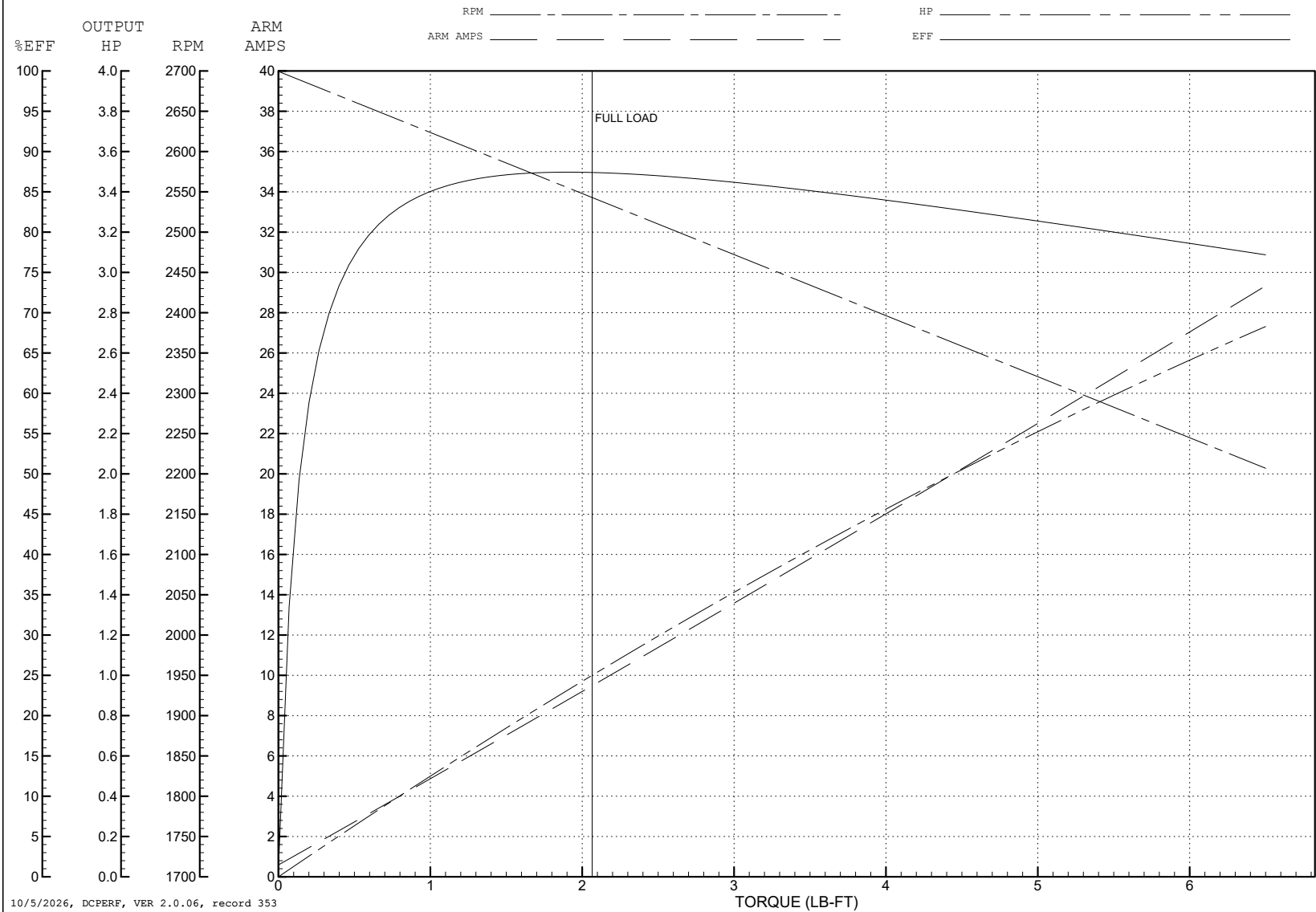
ABB Motors and Mechanical Inc.

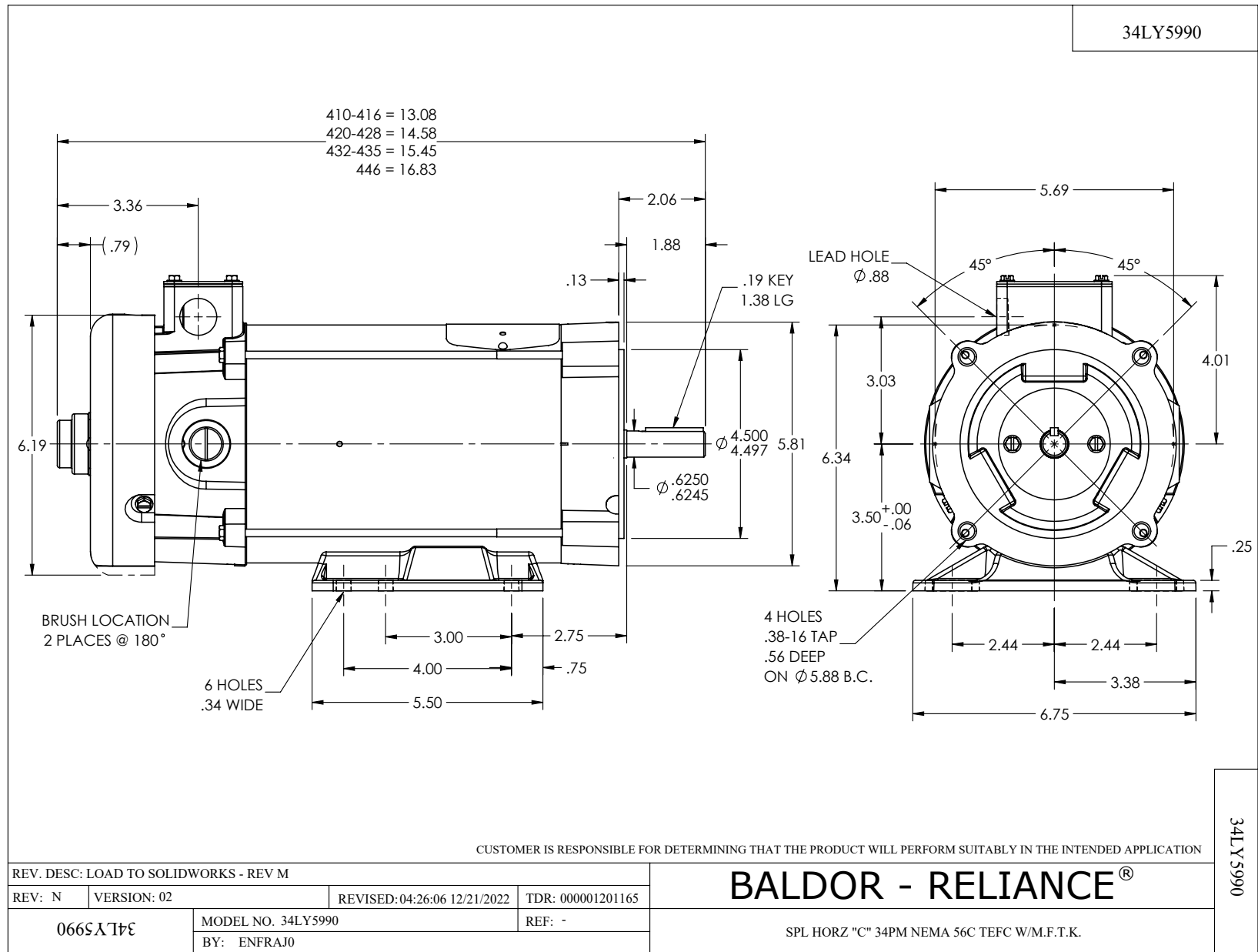
WINDING # 34WG3763

Typical performance - not guaranteed values.

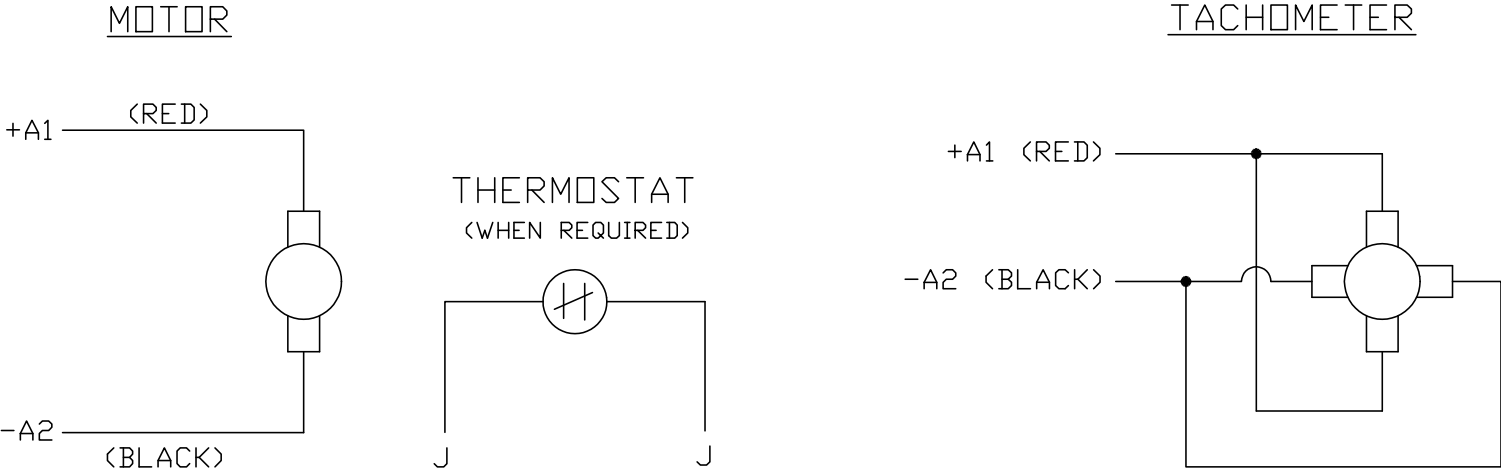
1 HP DC 2500 RPM 90 V 3428P

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