

ABB BALDOR RELIANCE III

Customer information packet

CDPT3575

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

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-ft2
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	19.25 IN
Product Family	General Purpose
Pulley End Bearing Type	Ball
RoHS Status	ROHS COMPLIANT
Service Factor	1.00

Part Detail

Revision	E
Type	DC
Mech. spec.	35P1188
Base	
Status	PRD/A
Elec. spec.	35WGZ164
Layout	35LYP1188
Eff. date	10-28-2024
CD Diagram	CD0194
Poles	00
Leads	
Proprietary	False
Created date	06-19-2019

Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger

Nameplate

NP0891L					
CAT.NO.	CDPT3575				
SPEC.	35P1188Z164				
HP	1.5/KW1.1	ENCL		TEFC	
RPM	1750 1/MIN				
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				
		BLANK		IP44	
SER.					
BLANK	IC411 KG32				
APRV-CE	Y	APRV-CSA	Y	APRV-UL	Y

Parts List

Part number	Description	Quantity
SA371002	SA 35P1188Z164	1.000 ea
AA018061	AA 35P1188Z164	1.000 ea
BP5000T15	CARBON BRUSH-35P,180VOLTS	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
35EP3110B01	SPL FR. ENDPLATE TEFC 35PM FOR TACH ADAP	1.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
35EP3301A01	PU ENDPLATE, MACH	1.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 ea
BP5201A14SP	BRUSH HOLDER ASSY	1.000 ea
80XN1032J03	10-32 X 3/16 SET SCREW, HEX SOC, CUP PT	2.000 ea
MJ5004A05	#242-21 LOCTITE GENERAL PURPOSE MED. STR	0.001 ea
35FN3002A05SP	EXFN, PLASTIC, 6.376 OD, .638 ID	1.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
HA6342A01	TG-300 TACH. ADAPTER MACH'D FOR 35 FRAME	1.000 ea
84XN2520J12	1/4-20 X 3/4 SOC.HD CAP SCR	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
35CB4508	COVER- 35 TACH. ADAP(CLOWTDR 10478	1.000 ea
35GS5002	GASKET-COVER 35 TACH ADAPTER	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	3.000 ea
HA6345A02	SHAFT ADAPTER,34 & 35 MTRTG200 & TG300 T	1.000 ea
HW1005W01	LOCKWASHER, 201 BEARING MO	1.000 ea
18XN0632A16	FLAT HEAD SCREW	2.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
WD4102A01	SR-6L-1 HEYCO STRN RELIEF OR 23MPO6L10 M	1.000 ea
WD4100A26	HEYCO UNIVERSAL BUSHING P/N 2089, MTG HO	1.000 ea
35CB4506	CONDUIT BOX LID, STAMPED	1.000 ea
35GS1010A01	GASKET, CONDUIT BOX LID TDR 11640	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 ea
WD4100A17	PLUG STIMPSON D4036	1.000 ea

HW3001B02	BRASS CUP WASHER W/GROUND SYMBOL TAB,	1.000 ea
M35000-523	TACH CALLAN 50V .625 BORE CCW	1.000 ea
35FH4005A01SP	IEC FH NO GREASER W/PRIMED	1.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.017 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
HA3101A46	THRUBOLT 1/4-20 X 10.00	4.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LC0194	CONNECTION LABEL	1.000 ea
NP0891L	NP STD LASER ENGRAVED DC MTRS, UL CSA CE	1.000 ea
35PA1005	PKG GRP, BLANK PK1012	1.000 ea

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

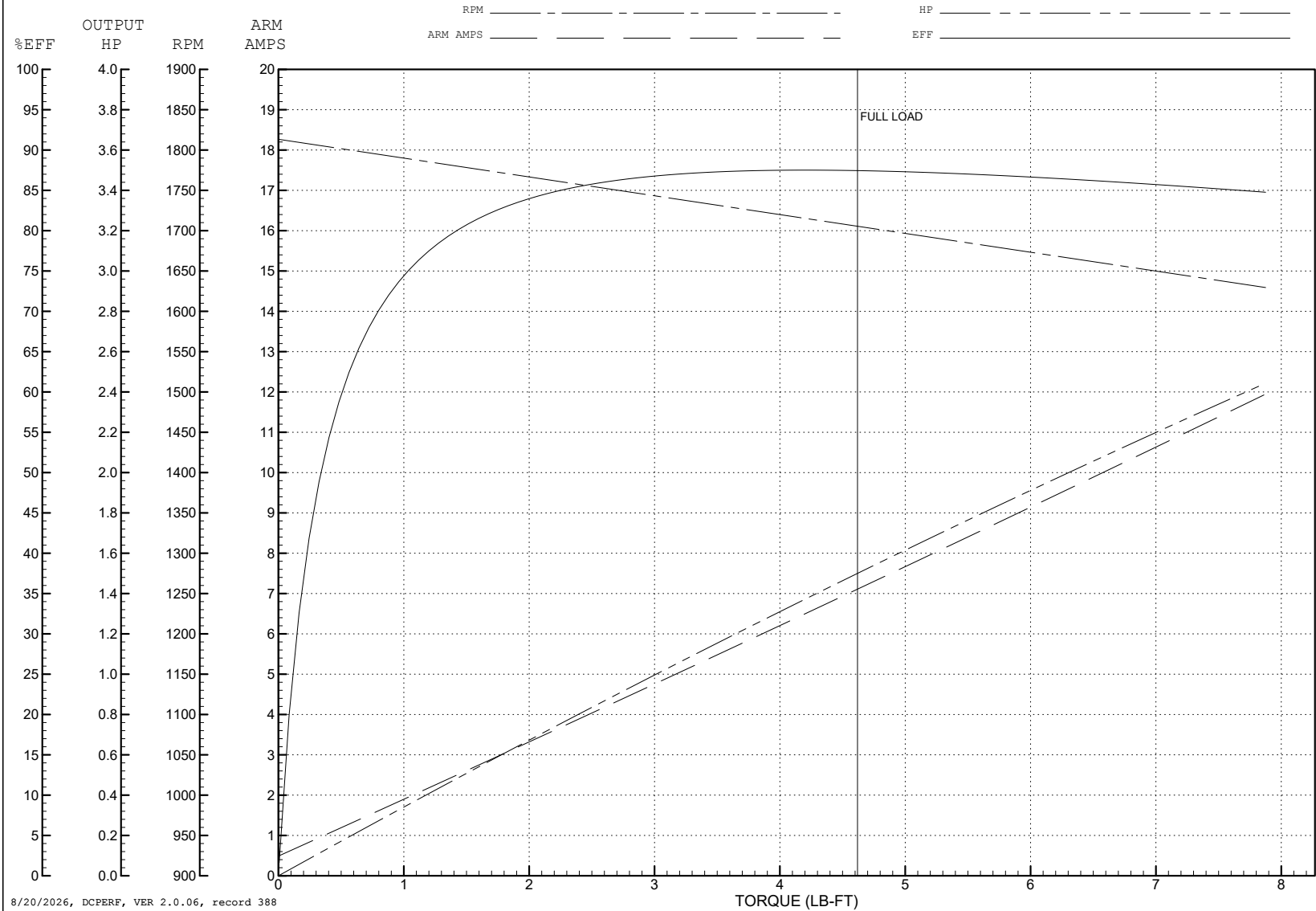
ABB Motors and Mechanical Inc.

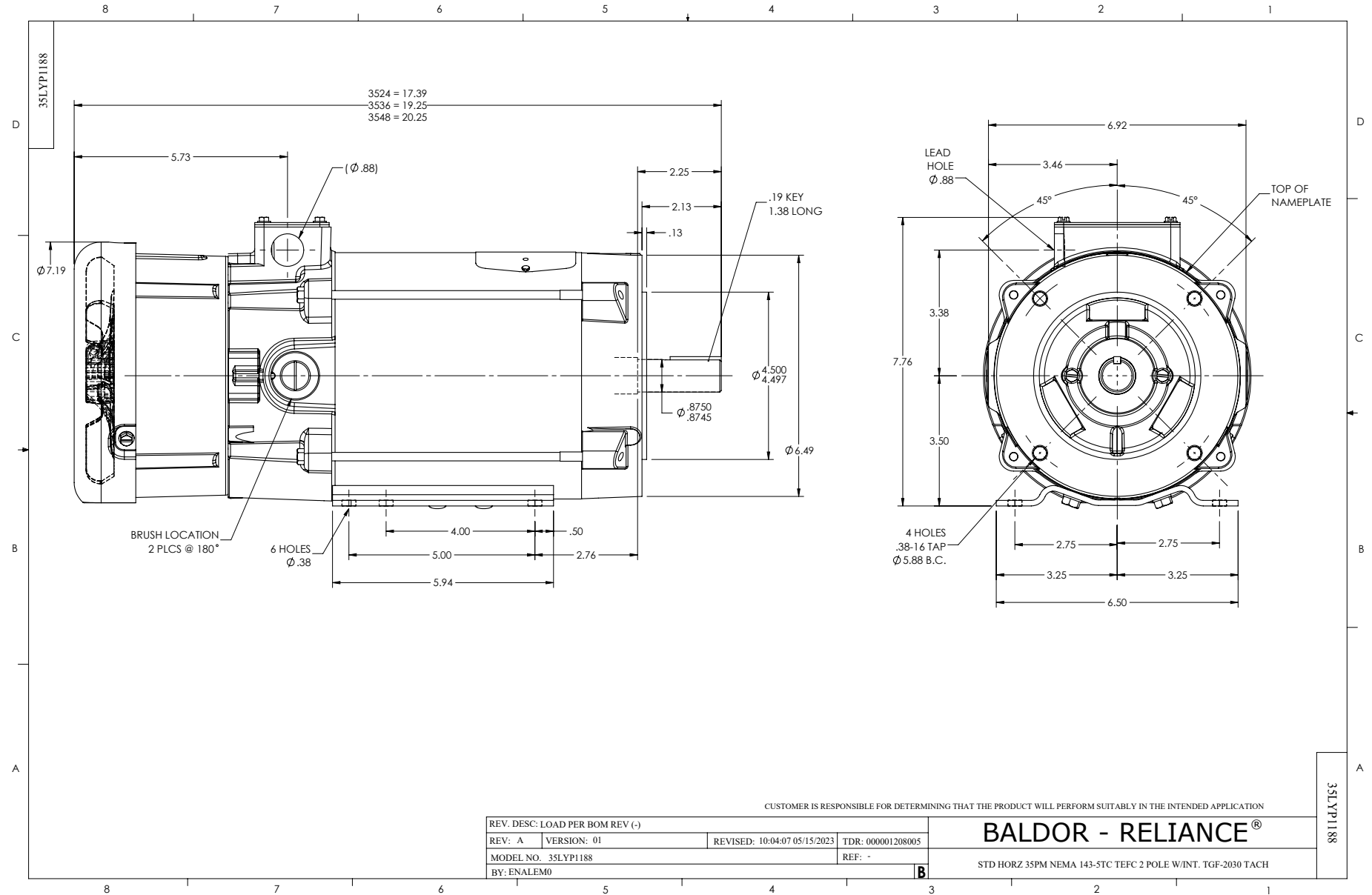
WINDING # 35WGZ164

Typical performance - not guaranteed values.

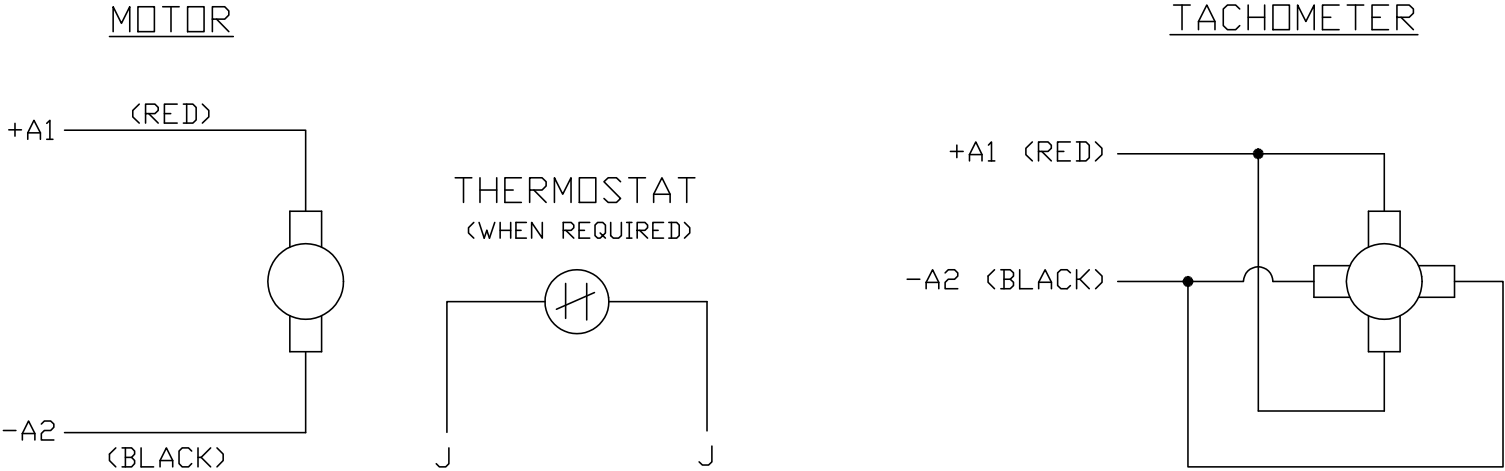
1.5 HP DC 1750 RPM 180 V 3536P

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: -			
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