

ABB BALDOR RELIANCE III

Customer information packet

CDPT3445

1HP, 1750RPM, DC, 56C, 3435P, TEFC, F1, N

Class - None

Division - Not Applicable

Specifications

Armature Voltage	90 V
Base Speed	1750 rpm
Enclosure	TEFC
Frame	56C
Frame Material	Steel
Haz Area Class and Group	None
Output Power	1.000 HP
Agency Approvals	CE
	CSA
	UR
	WEEE
Ambient Temperature	40 °C
Armature Current	10.0 a
Armature Inertia	13.657 lb-ft ²
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	17.52 IN
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
RoHS Status	ROHS COMPLIANT
Service Factor	1.00

Part Detail

Revision	D
Type	DC
Mech. spec.	34-7842
Base	
Status	PRD/A
Elec. spec.	34WG3675
Layout	34LY7842
Eff. date	10-25-2024
CD Diagram	CD0194
Poles	00
Leads	
Proprietary	False
Created date	06-19-2019

Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger

Nameplate

NP0891L				
CAT.NO.	CDPT3445			
SPEC.	34-7842-3675			
HP	1/KW .74	ENCL	TEFC	
RPM	1750 1/MIN			
FRAME	56C	TYPE	3435P	
ARM V	90	ARM A	10	
FLD V		FLD A		
INSUL	F	AMB.	40	
DUTY	CONT	SUPPLY	1.5	
BRG/DE	6203	BRG/ODE	6203	
BRUSHES	2/BP5000BK08			
		BLANK		
SER.				
BLANK	IP44 KG22 IC411			
APRV-CE	Y	APRV-CSA	Y	APRV-UL Y

Parts List

Part number	Description	Quantity
SA371001	SA 34-7842-3675	1.000 ea
AA018060	AA 34-7842-3675	1.000 ea
BP5000BK08SP	CARBON BRUSH - GRADE SA-35	1.000 ea
HA3210B66	.125 DIA X .281 (AUTO)	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B02	BRASS CUP WASHER W/GROUND SYMBOL TAB,	1.000 ea
34EP3103B03	FR. ENDPLATE, MACH	1.000 ea
HA6341A01	TG-300 TACH. ADAPTER MACH'D FOR 34 FRAME	1.000 ea
84XN2520J12	1/4-20 X 3/4 SOC.HD CAP SCR	4.000 ea
HW1002A25	WASHER, 1/4 HI-COLLAR LCKWSHR	4.000 ea
WD4100A26	HEYCO UNIVERSAL BUSHING P/N 2089, MTG HO	1.000 ea
34CB4510	COVER- 34 TACH. ADAP(CLOWTDR10478 ORDER	1.000 ea
34GS5002	GASKET-COVER 34 TACH ADAPTER	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	3.000 ea
18XN0632A16	FLAT HEAD SCREW	2.000 ea
WD4100A17	PLUG STIMPSON D4036	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
34EP3300A29	PU ENDPLATE, MACH	1.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 ea
BP5201A11SP	BRUSH HOLDER ASSY W/BP4511A01, BP3000A01	1.000 ea
80XN1032J03	10-32 X 3/16 SET SCREW, HEX SOC, CUP PT	2.000 ea
34FN3002A01SP	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 ea
34FH4002A01SP	IEC FH NO GREASER PRIMED	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
34CB4504SP	CONDUIT BOX LID, STAMPED	1.000 ea
34GS1011SP	GASKET, CONDUIT BOX LID	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
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 ea
M35000-523	TACH CALLAN 50V .625 BORE CCW	1.000 ea
WD4102A01	SR-6L-1 HEYCO STRN RELIEF OR 23MPO6L10 M	1.000 ea

MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.014 ga
MJ5004A05	#242-21 LOCTITE GENERAL PURPOSE MED. STR	0.001 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
HA6345A02	SHAFT ADAPTER,34 & 35 MTRTG200 & TG300 T	1.000 ea
HW1005W01	LOCKWASHER, 201 BEARING MO	1.000 ea
ML14A1B14	14 AWG,A1,BLACK	8.500 in
ML14A2B14	14 AWG,A2,BLACK	8.500 in
HA3100A37	THRUBOLT 10-32 X 8.500	4.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0194	CONNECTION LABEL	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
NP0891L	NP STD LASER ENGRAVED DC MTRS, UL CSA CE	1.000 ea
36PA1001	PKG GRP, PRINT PK1017A07	1.000 ea

DC Motor Performance Data

Record # 325

Typical performance - not guaranteed values

Winding: 34WG3675-R001		Type: 3435P	Enclosure: TEFC
Nameplate Data		General Characteristics	
Rated Output (HP)	1	Armature Resistance @ 25°C	0.537 Ω
R.P.M.	1750		
Armature Volts	90		
Armature Amps	10		
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
Armature Amps	0.5	5	7.2	9.65	11.7	14.2
R.P.M.	1853	1758	1727	1711	1642	1604
Torque (LB-FT)	0	1.5	2.25	3	3.75	4.5

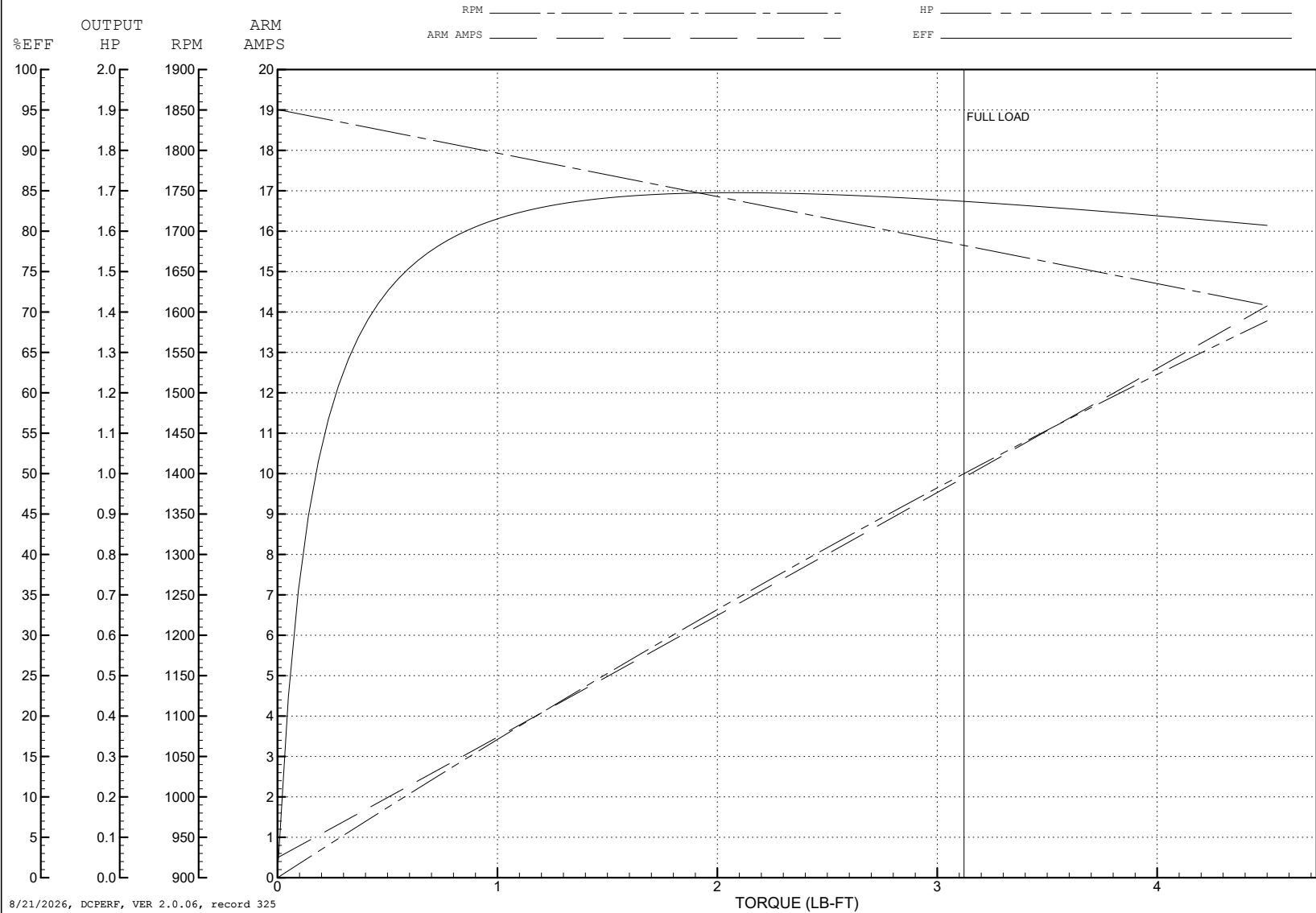
ABB Motors and Mechanical Inc.

WINDING # 34WG3675

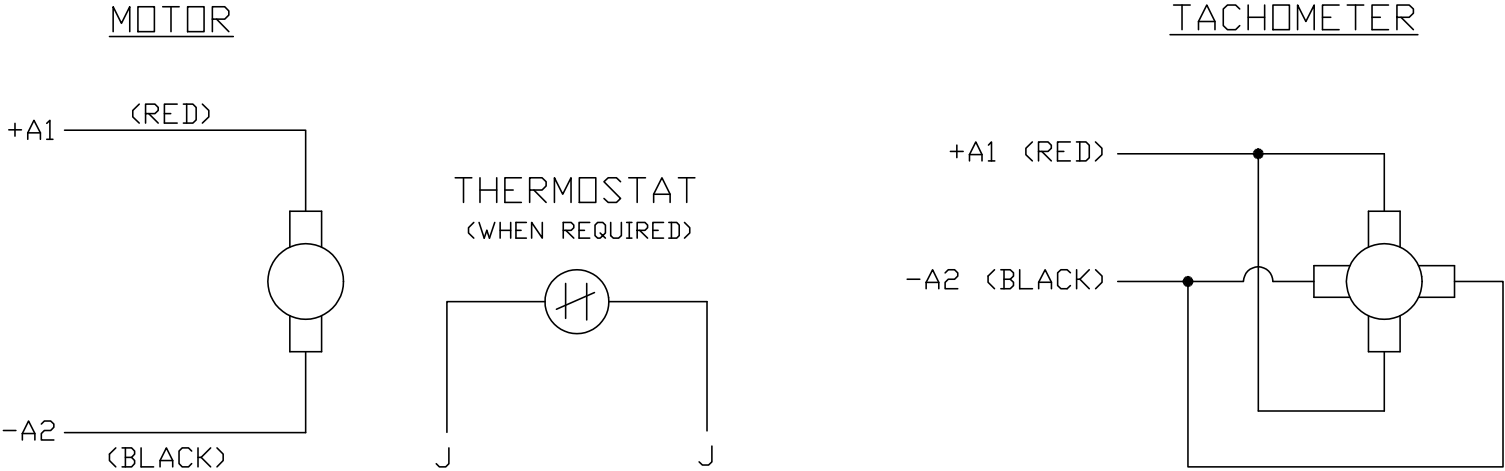
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1 HP DC 1750 RPM 90 V 3435P

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

REVISED: 07/28/95

FILE: AAA00004503

TDR: 0078737

BALDOR ELECTRIC Co.

CD TYPE P DC PERMANENT MAGNET MOTORS AND TACHOMETERS

CD0194