

# **ABB BALDOR RELIANCE III**

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## **Customer information packet** CD2007P-2

7.5HP, 1750/2300RPM, DC, 1810ATC, DPGF, TOD

**Specifications**

<b>Armature Voltage</b>	240 V
<b>Base Speed</b>	1750 rpm
<b>Enclosure</b>	DPFG
<b>Field Voltage</b>	120 V
	240 V
<b>Frame</b>	1810ATC
<b>Output Power</b>	7.500 HP
<b>Agency Approvals</b>	CSA
<b>Ambient Temperature</b>	40 °C
<b>Armature Current</b>	27.8 a
<b>Drip Cover</b>	No Drip Cover
<b>Duty Rating</b>	CONT
<b>Feedback Device</b>	NO FEEDBACK
<b>Field Winding Type</b>	STR. SHUNT
<b>Heater Indicator</b>	No Heater
<b>Insulation Class</b>	F
<b>Lifting Lugs</b>	Standard Lifting Lugs
<b>Motor Standards</b>	NEMA
<b>Mounting Arrangement</b>	F3
<b>Overall Length</b>	23.78 IN
<b>Service Factor</b>	1.00
<b>Shaft Diameter</b>	1.125 IN
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Slinger Indicator</b>	No Slinger
<b>Thermal Device - Bearing</b>	None

**Part Detail**

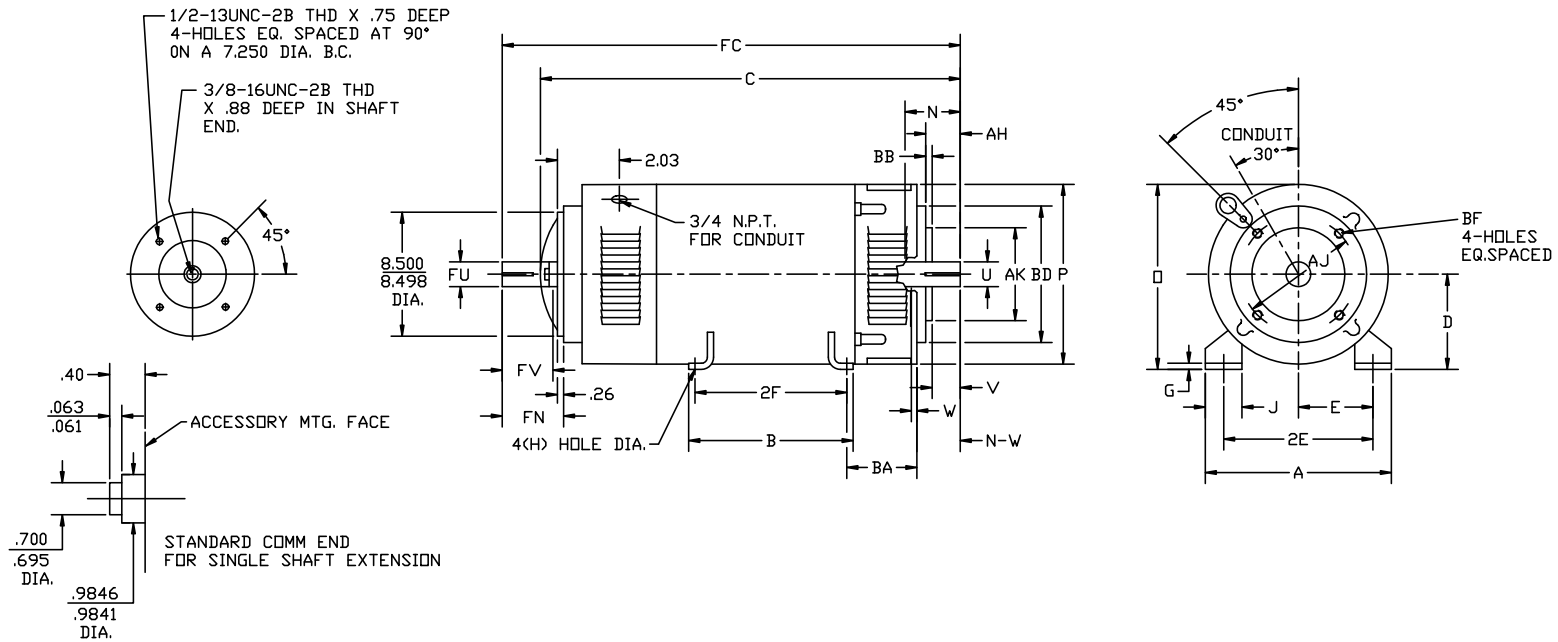
<b>Revision</b>	-
<b>Type</b>	DC
<b>Mech. spec.</b>	
<b>Base</b>	
<b>Status</b>	PRD/A
<b>Elec. spec.</b>	K0009B A
<b>Layout</b>	879
<b>Eff. date</b>	12-26-2019
<b>CD Diagram</b>	15209
<b>Poles</b>	00
<b>Leads</b>	
<b>Proprietary</b>	False
<b>Created date</b>	12-26-2019

**Nameplate**

<b>NP1734</b>						
<b>CAT.NO.</b>		<b>MODEL</b>	T18S8010			
<b>HP</b>	7.5	<b>RPM</b>	1750/2300	<b>FRAME</b>	1810ATC	
<b>ARM V</b>	240	<b>ARM A</b>	27.80	<b>WOUND</b>	STR. SHUNT	
<b>FLD V</b>	120/240	<b>FLD A</b>	1.18-.60/.59-.30			
<b>CONN</b>		<b>OHMS</b>	294.	<b>CL</b>	F	
<b>ENCL</b>	DPFG	<b>DUTY</b>	CONT	<b>MX AMB</b>	40	
<b>P CODE</b>	D	<b>CTSR</b>		<b>SER.F.</b>	1.0	
<b>S/N</b>		<b>E/S</b>	K0009B A			
	-					
<b>O.D.E. BRG.</b>	6205	<b>D.E. BRG.</b>	6206	<b>BRUSH</b>	18044-4	<b>QTY</b> 2

CUSTOMER NAME		MODEL NO.			MTG.		REMARKS:	
CUSTOMER P.O.		FRAME	R.P.M.	VOLTS	PHASE		INSUL	
CERTIFIED BY		DATE	H.P.	TYPE	ENCL		FREQ.	
							AMB.	

UNITS: INCH	SCALE: NONE	PROPORTION: NONE	PART NUMBER	879	DWG. SIZE	A
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FRAME	FOOT MOUNTING						D.E. SHAFT EXTENSION										DRIVE KEY		ACC SHAFT EXTENSION			ACC KEY			
	BA	E	2F	G	H	J	AH	AJ	AK	BB MAX	BD	THREAD	BF DEEP	N	N-W	U	V	W	KEY-SQ.	KEY-LONG	FN	FU	FV	KEY-SQ.	KEY-LONG
L182ATC	2.75	3.75	4.50	.38	.406	1.50	2.125	7.250	8.500 <sup>2</sup>	.25	8.69	1/2-13	.750	2.90	2.77	1.125	2.125 <sup>4</sup>	.13	.25	1.38	2.28	.875	2.03	.188	1.38
L186ATC	2.75	3.75	7.00	.38	.406	1.50	2.125	7.250	8.500 <sup>2</sup>	.25	8.69	1/2-13	.750	2.90	2.77	1.125	2.125 <sup>4</sup>	.13	.25	1.38	2.28	.875	2.03	.188	1.38
1810ATC	2.75	3.75	11.00	.38	.406	1.50	2.125	7.250	8.500 <sup>2</sup>	.25	8.69	1/2-13	.750	2.90	2.77	1.125	2.125 <sup>4</sup>	.13	.25	1.38	2.28	.875	2.03	.188	1.38

FRAME	FRAME						ARM APPROX. WK <sup>2</sup> LBS.FT. <sup>2</sup>	APPROXIMATE WEIGHT	
	A	B	C	FC	D	O			P
L182ATC	8.81	5.75	15.82	17.37	4.50 <sup>3</sup>	8.94	8.88	.28	89
L186ATC	8.81	8.25	19.33	20.87	4.50 <sup>3</sup>	8.94	8.88	.67	164
1810ATC	8.81	12.25	22.21	23.78	4.50 <sup>3</sup>	9.00	9.00	1.0	200

- 1) SHAFT DIAMETERS TO 1.500 TOLERANCE +.000 -.0005  
SHAFT DIAMETERS ABOVE 1.500 TOLERANCE +.000 -.0010  
SHAFT DIAMETERS TO 1.625 RUNOUT .002 T.I.R. MAX.  
SHAFT DIAMETERS ABOVE 1.625 RUNOUT .003 T.I.R. MAX.
- 2) \*AK\* DIMENSION UNDER 12.000 - DIAMETER TOLERANCE +.000 -.003  
CONCENTRIC WITH SHAFT .004 T.I.R. MAX.  
FACE RUNOUT WITHSHAFT .004 T.I.R. MAX.  
DIAMETER TOLERANCE +.000 -.005  
CONCENTRIC WITH SHAFT .007 T.I.R. MAX.  
FACE RUNOUT WITH SHAFT .007 T.I.R. MAX.
- 3) \*D\* DIMENSION TOLERANCE +.000 -.030
- 4) \*V\* DIMENSION IS MAX. HUB LENGTH ON SHAFT
- 5) CONDUIT BOX CAN BE ROTATED IN 90° STEPS ON ITS OWN AXIS.
- 6) ALL DIMENSIONS NOT NOTED ARE NOMINAL DIMENSIONS CONSULT FACTORY FOR TOLERANCES.

FOR F1 OR F2 CONDUIT BOX  
LOCATION SEE SALES ORDER

DESIGNER	CSL
7-19-91	
ENGINEER	RFL
7-19-91	
ENGINEER	DAC
7-19-91	
MANUF.	RWT
7-19-91	

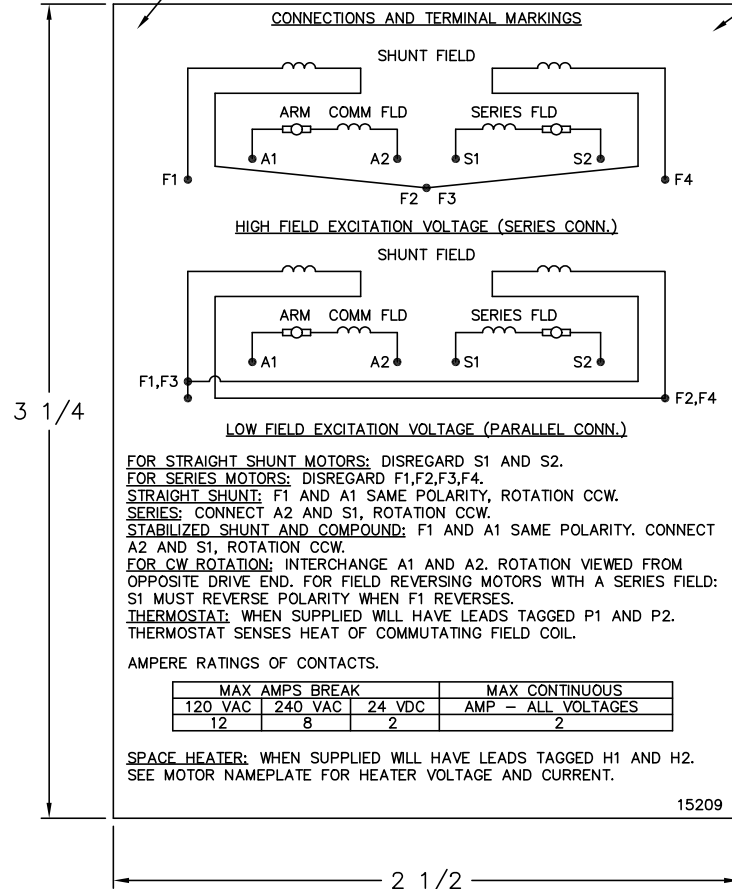
**BALDOR**  
TITLE: DIMENSION SHEET  
DPFG, STD ATC  
8 1/2 DIA. PILOT

A	19032	REDRAWN	CSL	7-19-1991	DATE	PART NUMBER	879	DWG. SIZE	REV.	A
REV.	ECO.	DESCRIPTION	BY	DATE						

15209

ALUMINUM (MATT) BACKGROUND WITH BLACK LETTERS

LABEL MANUFACTURER IDENTIFYING MARK TO APPEAR HERE



FOR STRAIGHT SHUNT MOTORS: DISREGARD S1 AND S2.  
 FOR SERIES MOTORS: DISREGARD F1, F2, F3, F4.  
 STRAIGHT SHUNT: F1 AND A1 SAME POLARITY, ROTATION CCW.  
 SERIES: CONNECT A2 AND S1, ROTATION CCW.  
 STABILIZED SHUNT AND COMPOUND: F1 AND A1 SAME POLARITY. CONNECT A2 AND S1, ROTATION CCW.  
 FOR CW ROTATION: INTERCHANGE A1 AND A2. ROTATION VIEWED FROM OPPOSITE DRIVE END. FOR FIELD REVERSING MOTORS WITH A SERIES FIELD: S1 MUST REVERSE POLARITY WHEN F1 REVERSES.  
 THERMOSTAT: WHEN SUPPLIED WILL HAVE LEADS TAGGED P1 AND P2. THERMOSTAT SENSES HEAT OF COMMUTATING FIELD COIL.

AMPERE RATINGS OF CONTACTS.

MAX AMPS BREAK			MAX CONTINUOUS	
120 VAC	240 VAC	24 VDC	AMP - ALL VOLTAGES	
12	8	2	2	

SPACE HEATER: WHEN SUPPLIED WILL HAVE LEADS TAGGED H1 AND H2. SEE MOTOR NAMEPLATE FOR HEATER VOLTAGE AND CURRENT.

NOTE:  
 MATERIAL .005 MINIMUM FULL HARD ALUMINUM DULL FINISH.  
 TEMP. RANGE -20°C TO +125°C MAXIMUM.  
 FOR INDOOR AND OUTDOOR MOUNTING BACK.  
 METAL, PRESSURE SENSITIVE BACK. MUST MEET CSA STANDARD.  
 THE CSA IDENTIFYING MARK OF THE LABEL MANUFACTURER MUST APPEAR IN THE UPPER RIGHT HAND CORNER AS INDICATED.

UNLESS OTHERWISE SPECIFIED, BREAK ALL SHARP EDGES .010/.020. REMOVE ALL BURRS.

TOLERANCES

.X ±.015	FRACTIONS ±1/32
.XX ±.010	RADI ±1/16
.XXX ±.005	ANGLES ±1°

15209

MATL: NOTED			
REV:	G	CHANGE ALL "NAMEPLATE" TEXT TO "LABEL"	
60Z91		SCALE: -	BY: BKW
		FILE: CHB00002485	REVISED: 02/19/97
		TDR: 0115147	

**BALDOR ELECTRIC Co.**

LABEL, CONNECTIONS AND TERMINAL MARKINGS DC