

ABB BALDOR RELIANCE III

Customer information packet D50200P

200HP, 1750/1900RPM, DC, 504AT, DPFG, F1, N

Specifications

Armature Voltage	500 V
Base Speed	1750 rpm
Enclosure	DPFG
Field Voltage	150 V
	300 V
Frame	504AT
Frame Material	Steel
Output Power	200.000 HP
Agency Approvals	CSA
Ambient Temperature	40 °C
Armature Current	320.0 a
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Drip Cover	No Drip Cover
Duty Rating	CONT
Feedback Device	NO FEEDBACK
Field Winding Type	STR. SHUNT
Heater Indicator	No Heater
Insulation Class	F
Lifting Lugs	Standard Lifting Lugs
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	51.00 IN
Service Factor	1.00
Shaft Diameter	3.249 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Slinger Indicator	No Slinger
Thermal Device - Bearing	None

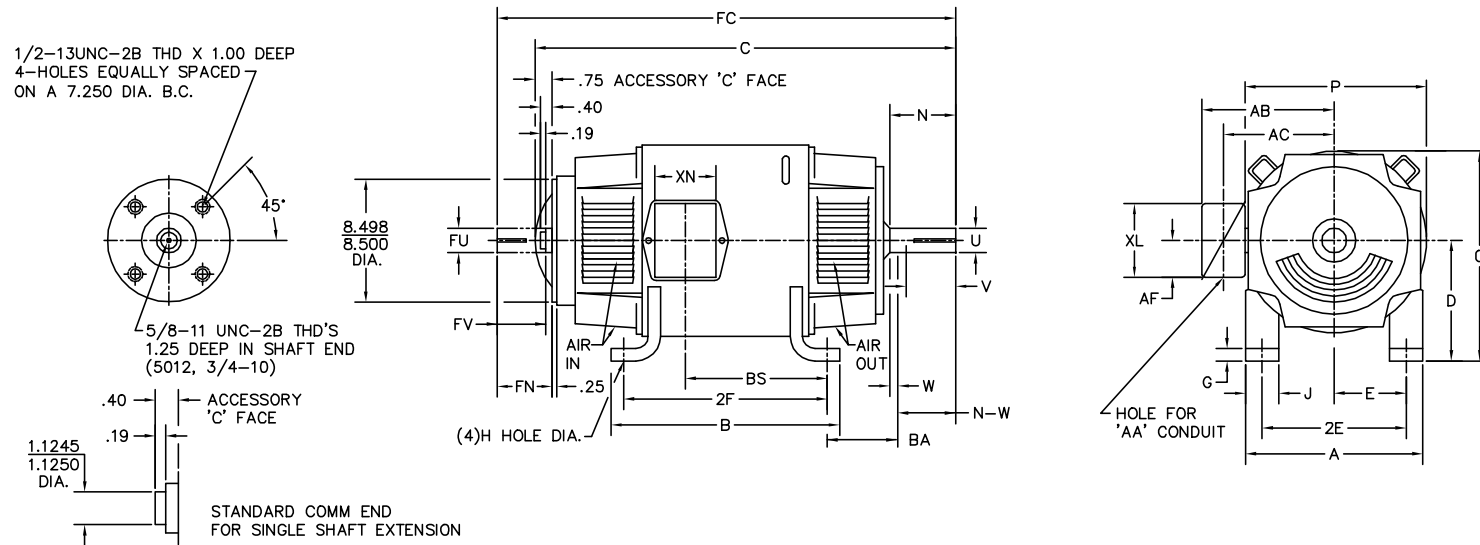
Part Detail

Revision	B
Type	DC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	K0070A A
Layout	877-3
Eff. date	03-22-2022
CD Diagram	15209
Poles	00
Leads	
Proprietary	False
Created date	04-09-2015

Nameplate

NP1734							
CAT.NO.			MODEL	T50R8001			
HP	200	RPM	1750/1900	FRAME		0504AT	
ARM V	500	ARM A	320.00	WOUND		STR. SHUNT	
FLD V	150/300	FLD A	11.90-7.80/5.95-3.90				
CONN		OHMS			CL	F	
ENCL	DPFG	DUTY	CONT		MX AMB	40	
P CODE	D	CTSR			SER.F.	1.0	
S/N			E/S	K0070A A			
	BRUSH:50034-2						
O.D.E. BRG.	6216	D.E. BRG.	6218	BRUSH			QTY

877-3



FOOT MOUNTING										D.E. SHAFT EXTENSION		DRIVE KEY		ACC SHAFT EXTENSION		ACC KEY		FRAME							
FRAME	BA	E	2F	G	H	J	N	N-W	U	V	W	KEY-SQ.	KEY-LONG	FN	FU	FV	KEY-SQ.	KEY-LONG	A	B	C	FC	D	O	P
504AT	8.50	10.00	16.00	1.18	1.188	4.50	6.76	6.57	3.250	6.32 ³	.19	.750	5.25	5.95	2.875	5.70	.750	5.00	24.88	18.88	45.75	51.00	12.50 ²	24.91	24.81
506AT	8.50	10.00	20.00	1.18	1.188	4.50	6.76	6.57	3.250	6.32 ³	.19	.750	5.25	5.95	2.875	5.70	.750	5.00	24.88	22.88	49.75	55.00	12.50 ²	24.91	24.81
508AT	8.50	10.00	25.00	1.18	1.188	4.50	6.76	6.57	3.250	6.32 ³	.19	.750	5.25	5.95	2.875	5.70	.750	5.00	24.88	27.88	54.75	60.00	12.50 ²	24.91	24.81
5010AT	8.50	10.00	32.00	1.18	1.188	4.50	6.76	6.57	3.250	6.32 ³	.19	.750	5.25	5.95	2.875	5.70	.750	5.00	24.88	34.88	61.75	67.00	12.50 ²	24.91	24.81
5011AT	8.50	10.00	36.00	1.18	1.188	4.50	6.76	6.57	3.375	6.32 ³	.19	.875	5.25	5.95	2.875	5.70	.750	5.00	24.88	38.88	65.75	71.00	12.50 ²	24.91	24.81
5012AT	8.50	10.00	43.00	1.18	1.188	4.50	7.06	6.87	4.250	6.62 ³	.19	1.000	5.25	5.95	2.875	5.70	1.000	5.00	24.88	45.88	73.75	79.75	12.50 ²	24.91	24.91

CONDUIT BOX								ARM APPROX. LBS.FT. ²	APPROXIMATE WEIGHT
FRAME	AA	AB	AC	AF	BS	XL	XN		
504AT	3	20.65	16.81	2.62	13.25	11.63	7.76	79.10	1910 ⁵
506AT	3	20.65	16.81	2.62	17.25	11.63	7.76	98.76	2290 ⁵
508AT	3	20.65	16.81	2.62	22.25	11.63	7.76	121.87	2820 ⁵
5010AT	4 ⁴	21.20	16.81	2.84	30.12	13.40	13.50	156	3450 ⁵
5011AT	4 ⁴	21.20	16.81	2.84	34.12	13.40	13.50	161	3810 ⁵
5012AT	4 ⁴	21.20	17.19	2.84	41.12	13.40	13.50	170	4887 ⁵

- 1) SHAFT DIAMETERS TO 1.500 TOLERANCE +.0000 -.0005
SHAFT DIAMETERS ABOVE 1.500 TOLERANCE +.0000 -.0010
SHAFT DIAMETERS TO 1.625 RUNOUT .002 T.I.R. MAX.
SHAFT DIAMETERS ABOVE 1.625 RUNOUT .003 T.I.R. MAX.

- 2) 'D' DIMENSION TOLERANCE +.000 - .060.
3) 'V' DIMENSION IS MAX. HUB LENGTH ON SHAFT
4) THERE ARE TWO HOLES FOR 4" CONDUIT, SECOND HOLE IS 6" TOWARD DRIVE END.
5) TOTAL WEIGHT OF MOTOR.
6) ALL DIMENSIONS NOT NOTED ARE NOMINAL DIMENSIONS CONSULT FACTORY FOR TOLERANCES.

FOR F1 OR F2 CONDUIT BOX
LOCATION SEE SALES ORDER

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

REV. DESC: CHG (5011)U DIM TO 3.375, KEY-SQ TO .875

REV. LTR: D BY: MBT REVISED: 07:59:01 04/22/2003 TDR: 299170

Σ-LL8

FILE: CHB00001040

MTL: -

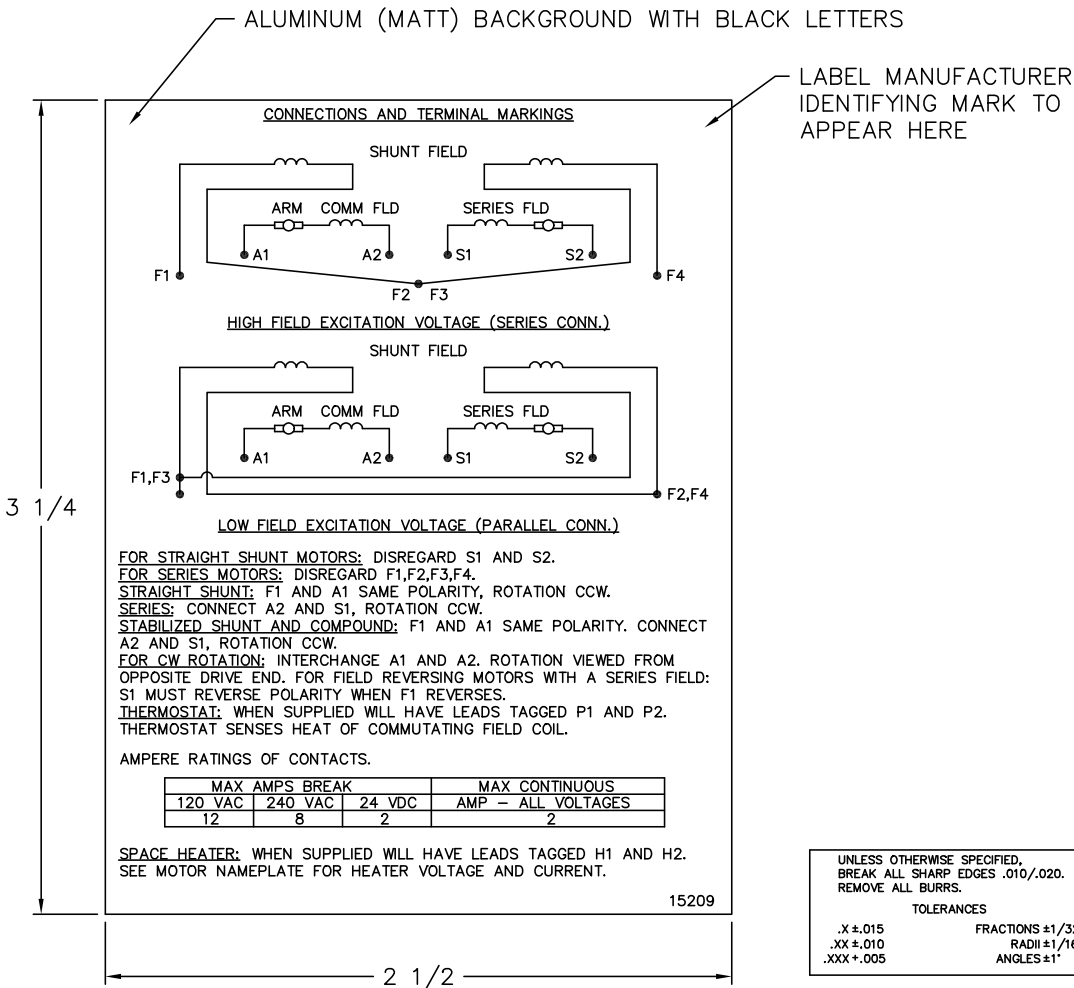
REF: 877-3

BALDOR ELECTRIC Co.

DIM SHEET: 504-5012AT,DPFG

877-3

15209



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.

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

15209