

ABB BALDOR RELIANCE III

Customer information packet

D50400P2-BV

0508AT, 400HP, 1750RPM, 500, 150, DPBV, F1

Specifications

Armature Voltage	500 V
Base Speed	1750 rpm
Enclosure	DPFG
Field Voltage	150 V
	300 V
Frame	508AT
Frame Material	Steel
Output Power	400.000 HP
Agency Approvals	CSA
Ambient Temperature	40 °C
Armature Current	624.0 a
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	54.00 IN
Service Factor	1.00
Shaft Diameter	3.250 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Slinger Indicator	No Slinger
Thermal Device - Bearing	None

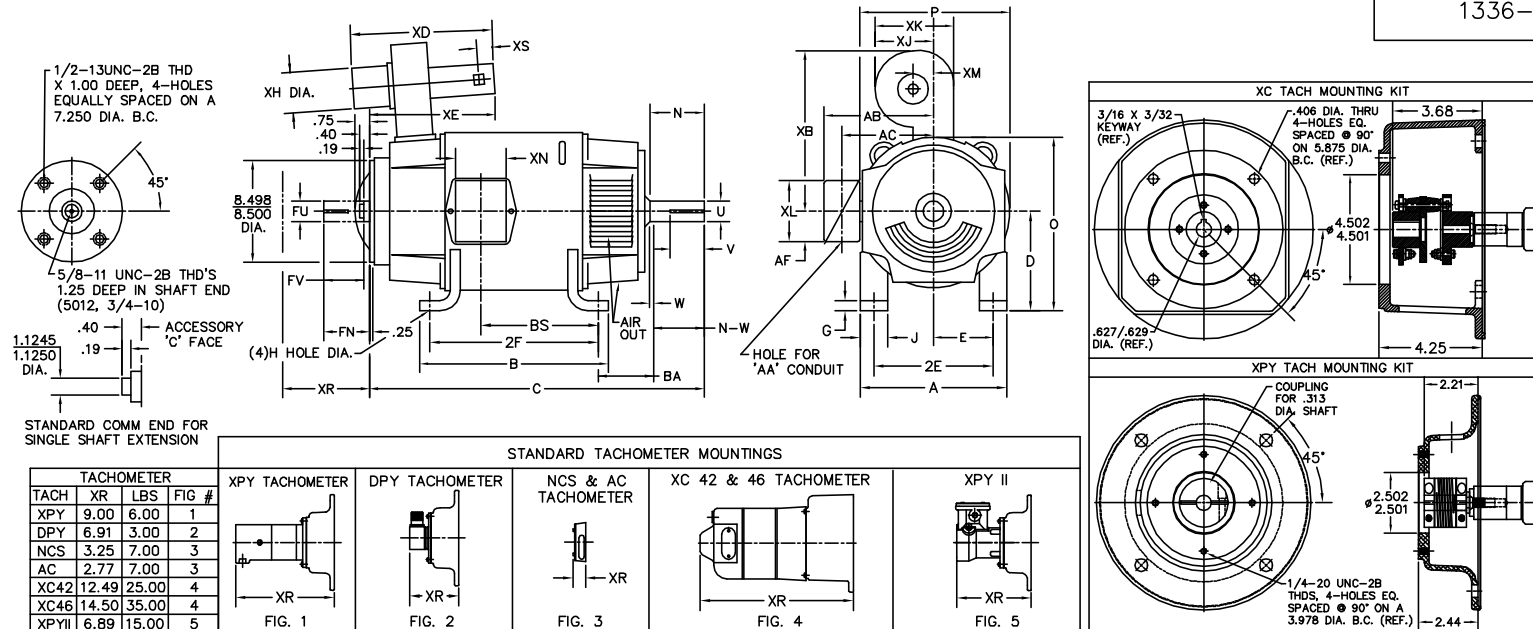
Part Detail

Revision	C
Type	DC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	K0127A A
Layout	1336-6
Eff. date	03-22-2022
CD Diagram	15209
Poles	00
Leads	
Proprietary	False
Created date	04-09-2015

Nameplate

NP1734									
CAT.NO.				MODEL	T50R8005				
HP	400	RPM	1750/1950		FRAME		0508AT		
ARM V	500		ARM A		624.00	WOUND		STR. SHUNT	
FLD V	150/300		FLD A		17.76-12.14/8.88-6.07				
CONN			OHMS				CL	F	
ENCL	DPFG		DUTY		CONT		MX AMB		40
P CODE	D		CTSR				SER.F.		1.0
S/N				E/S	K0127A A				
	BRUSH:50034-2								
O.D.E. BRG.	6216	D.E. BRG.		6218	BRUSH				
QTY									

1336-6



STANDARD COMM END FOR
SINGLE SHAFT EXTENSION

STANDARD TACHOMETER MOUNTINGS

TACHOMETER	XPY TACHOMETER	DPY TACHOMETER	NCS & AC TACHOMETER	XC 42 & 46 TACHOMETER	XPY II
TACH	XR	LBS	FIG #		
XPY	9.00	6.00	1		
DPY	6.91	3.00	2		
NCS	3.25	7.00	3		
AC	2.77	7.00	3		
XC42	12.49	25.00	4		
XC46	14.50	35.00	4		
XPYII	6.89	15.00	5		

	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	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	45.00	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	49.00	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	54.00	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	61.00	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	65.00	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	12.50 ²	24.91	24.91

FRAME	AA	AB	AC	AF	BS	XL	XN	SIZE	XB	XD	XE	XH	XM	XJ	XK	XS	ARM APPROX. WK ² LBS.FT. ²	APPROXIMATE WEIGHT
504AT	3	20.65	16.81	2.62	13.25	11.63	7.76	LM8	25.50	27.38	20.94	10.75	5.50	12.38	15.25	3.75	79.10	1957 ⁵
506AT	3	20.65	16.81	2.62	17.25	11.63	7.76	LM8	25.50	27.38	20.94	10.75	5.50	12.38	15.25	3.75	98.76	2337 ⁵
508AT	3	20.65	16.81	2.62	22.25	11.63	7.76	LM8	25.50	27.38	20.94	10.75	5.50	12.38	15.25	3.75	121.87	2867 ⁵
5010AT	4 ⁴	21.20	16.81	2.84	30.12	13.40	13.50	LM9	25.50	28.31	20.94	10.75	5.50	12.38	15.25	3.75	156	3520 ⁵
5011AT	4 ⁴	21.20	16.81	2.84	34.12	13.40	13.50	LM9	25.50	28.31	21.88	10.75	5.50	12.38	15.25	3.75	161	3680 ⁵
5012AT	4 ⁴	21.20	17.19	2.84	41.12	13.40	13.50	LM9	25.50	28.31	21.88	10.75	5.50	12.38	15.25	3.75	170	5177 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 IS MAX. HUB LENGTH ON SHAFT
- 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 AND BLOWER LESS TACH WEIGHT.
- 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.

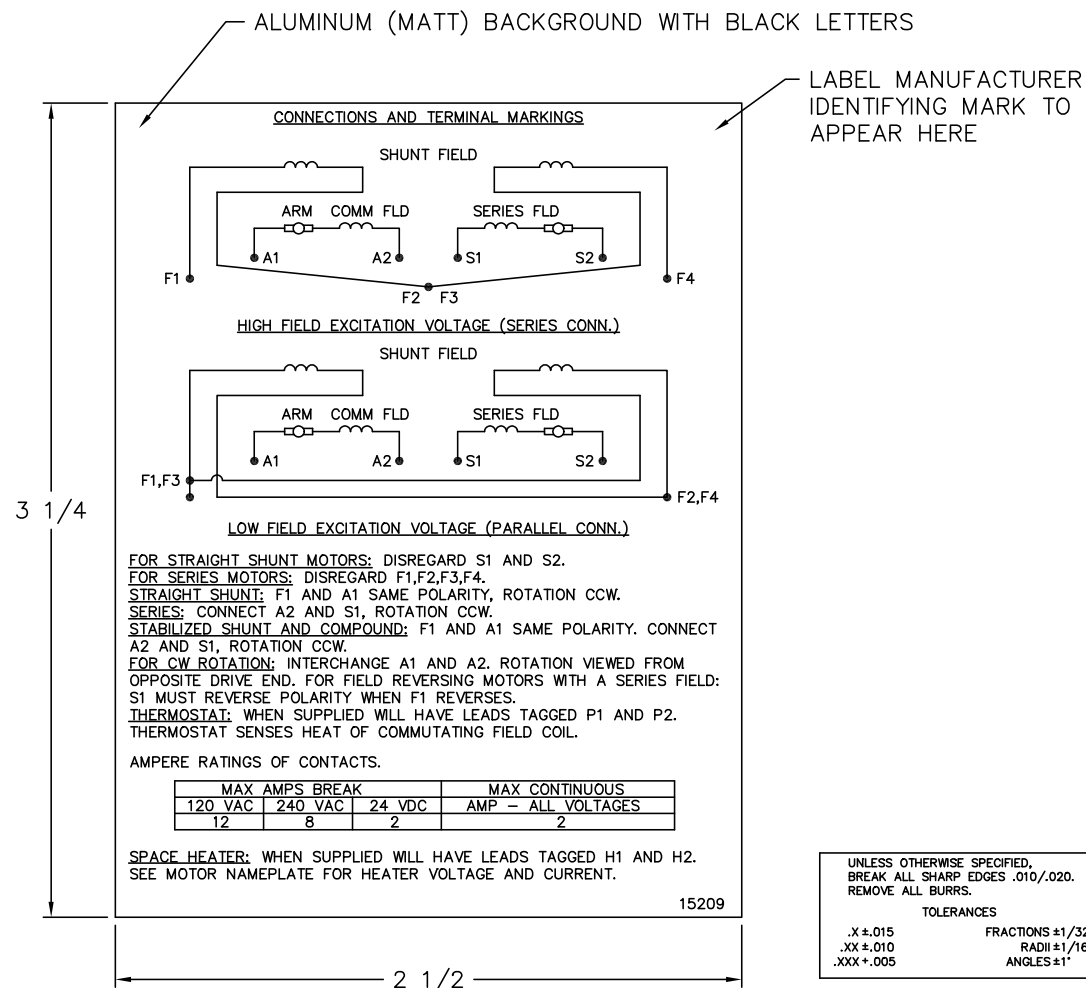
REV. DESC: CHG (5011)U DIM TO 3.375, KEY-SQ TO .875	
REV. LTR: G	BY: MBT
REVISED: 15:36:36 07/17/2002	TDR: 273841
FILE: CHB00001076	REF: 1336-6
MTL: -	

BALDOR ELECTRIC Co.

DIM SHEET: 504-5012AT,DPBV,W/TACH

1336-6

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.

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

TOLERANCES

.X ±.015
 .XX ±.010
 .XXX ±.005

FRACTIONS ±1/32
 RADII ±1/16
 ANGLES ±1°

15209

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

BALDOR ELECTRIC Co.

LABEL, CONNECTIONS AND TERMINAL MARKINGS DC