ABB BALDOR RELIANCE

Customer information packet

D50400P2-BV

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

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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

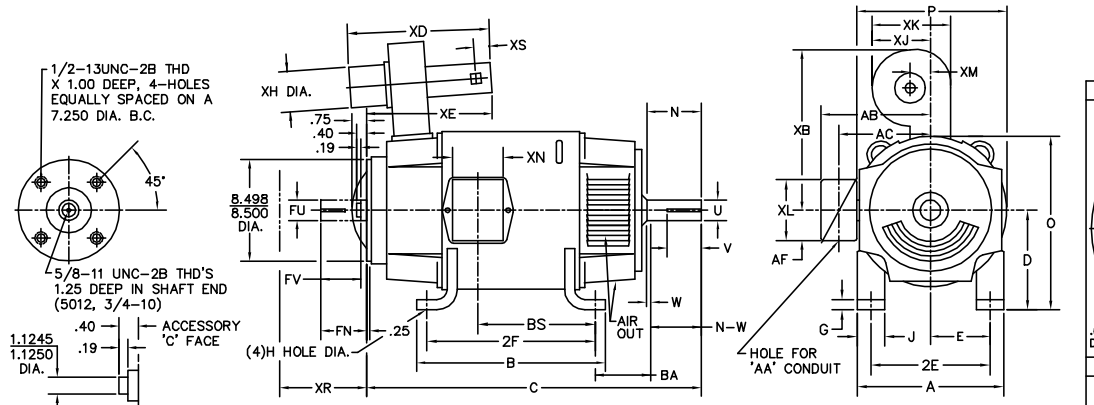
Part Detail

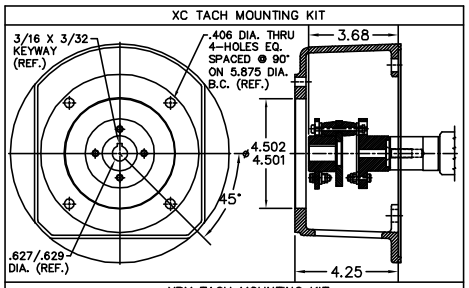
Revision	C
Type	DC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	K0127A A
Layout	1336-6
Eff. date	03-22-2022
CD Diagram	15209
Poles	00
Leads	
Proprietary	False
Created date	04-09-2015

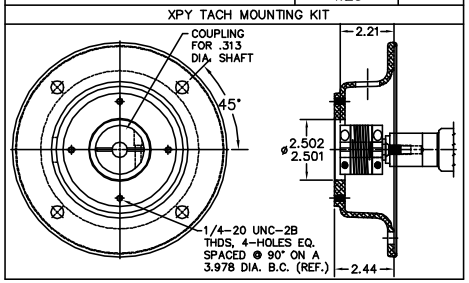
Nameplate

NP1734									
CAT.NO.	D50400P2-BV			**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

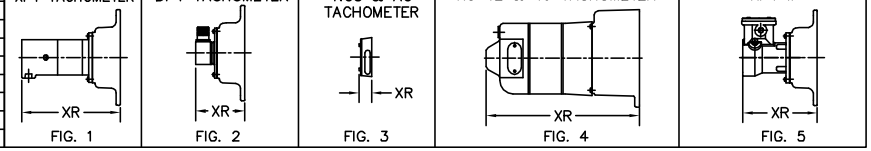






STANDARD TACHOMETER MOUNTINGS

TACHOMETER			
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	24.81

	CONDUIT BOX							BLOWER									ARM APPROX. WK² LBS.FT.²	APPROXIMATE WEIGHT
FRAME	AA	AB	AC	AF	BS	XL	XN	SIZE	XB	XD	XE	XH	XM	XJ	XK	XS		
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	3880 [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]

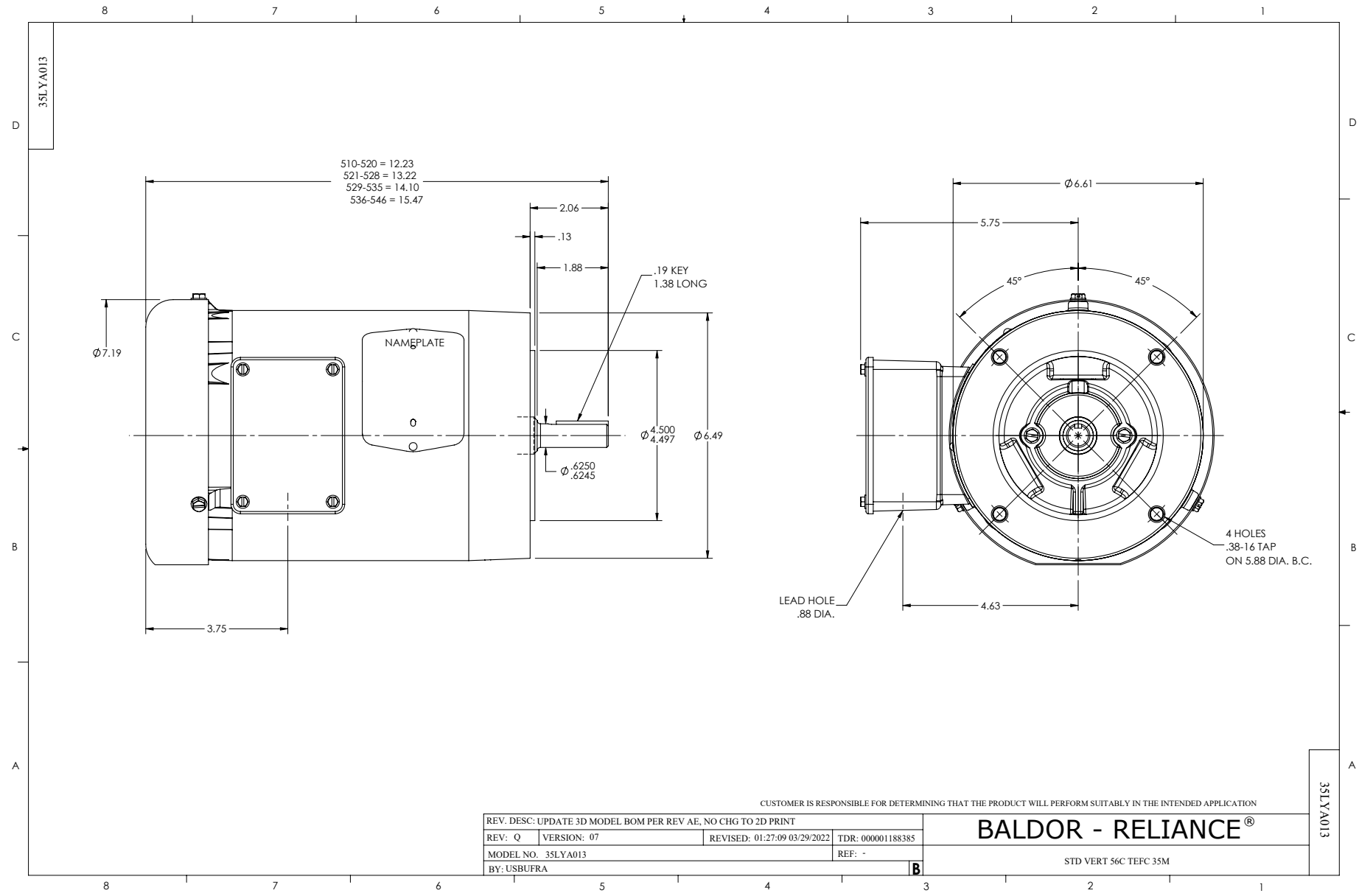
1) SHAFT DIAMETERS TO 1.500 TOLERANCE +.0000 -.0005
SHAFT DIAMETERS ABOVE 1.500 TOLERANCE +.0000 -.0010
SHAFT DIAMETERS TO 1.625 RUNOUT .002 T.I.R. MAX.
SHAFT DIAMETERS ABOVE 1.625 RUNOUT .003 T.I.R. MAX.
2) 'D' DIMENSION TOLERANCE +.000 - .060
3) 'V' DIMENSION IS MAX. HUB LENGTH ON SHAFT
4) THERE ARE TWO HOLES FOR 4" CONDUIT, SECOND HOLE IS 6" TOWARD DRIVE END.
5) TOTAL WEIGHT OF MOTOR 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			BALDOR ELECTRIC Co.
REV. LTR: G	BY: MBT	REVISED: 15:36:36 07/17/2002	TDR: 273841
9-9ξξ1		FILE: CHB00001076	REF: 1336-6
		MTL: -	DIM SHEET: 504-5012AT,DPBV,W/TACH

1336-6

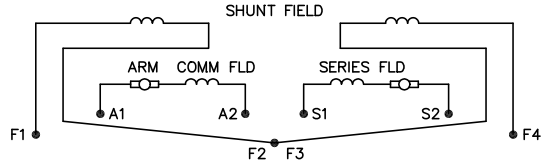

35LYA013
510-520 = 12.23
521-528 = 13.22
529-535 = 14.10
536-546 = 15.47
2.06
.13
1.88
.19 KEY
1.38 LONG
NAMEPLATE
Ø7.19
Ø4.500
4.497
Ø6.49
Ø .6250
.6245
3.75
Ø6.61
5.75
45°
45°
4 HOLES
.38-16 TAP
ON 5.88 DIA. B.C.
LEAD HOLE
.88 DIA.
4.63
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE 3D MODEL BOM PER REV AE, NO CHG TO 2D PRINT
REV: Q
VERSION: 07
REVISED: 01:27:09 03/29/2022
TDR: 000001188385
MODEL NO. 35LYA013
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
STD VERT 56C TEFC 35M
35LYA013

15209

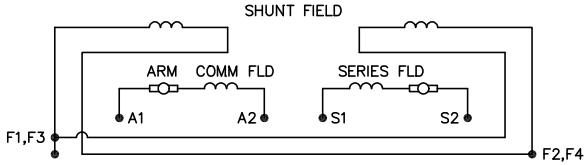
ALUMINUM (MATT) BACKGROUND WITH BLACK LETTERS

LABEL MANUFACTURER IDENTIFYING MARK TO APPEAR HERE

CONNECTIONS AND TERMINAL MARKINGS



HIGH FIELD EXCITATION VOLTAGE (SERIES CONN.)



LOW FIELD EXCITATION VOLTAGE (PARALLEL CONN.)

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.

15209

3 1/4

2 1/2

NOTE:
MATERIAL .005 MINUMUM 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 INDENTIFYING 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 RADII ±1/16
.XXX +.005 ANGLES ±1°

MATL: NOTED				
REV:	G	CHANGE ALL "NAMEPLATE" TEXT TO "LABEL"		
15209	SCALE: –	BY: BKW	REVISED: 02/19/97	
	FILE: CHB00002485		TDR: 0115147	

BALDOR ELECTRIC Co.

LABEL, CONNECTIONS AND TERMINAL MARKINGS DC

15209