

ABB BALDOR RELIANCE III

Customer information packet

D50500P2-BV

5010AT, 500HP, 1750RPM, 500, 150, DPBV, F1

Specifications

Armature Voltage	500 V
Base Speed	1750 rpm
Enclosure	DPBV
Field Voltage	150 V
	300 V
Frame	5010AT
Frame Material	Steel
Output Power	500.000 HP
Agency Approvals	CSA
Ambient Temperature	40 °C
Armature Current	788.0 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	61.75 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	B
Type	DC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	K0129A A
Layout	1227-6
Eff. date	03-22-2022
CD Diagram	15209
Poles	00
Leads	
Proprietary	False
Created date	04-09-2015

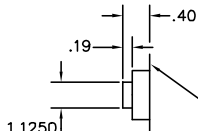
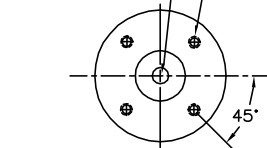
NP1734

CAT.NO.			MODEL	T50R8006		
HP	500	RPM	1750/1950	FRAME	5010AT	
ARM V	500	ARM A	788.00	WOUND	STR. SHUNT	
FLD V	150/300	FLD A	17.64-12.06/8.82-6.03			
CONN		OHMS		CL	F	
ENCL	DPBV	DUTY	CONT	MX AMB	40	
P CODE	C	CTSR		SER.F.	1.0	
S/N			E/S	K0129A A		
	BRUSH:50034-2					
O.D.E. BRG.	6218	D.E. BRG.	6218	BRUSH		
						QTY

1227-6

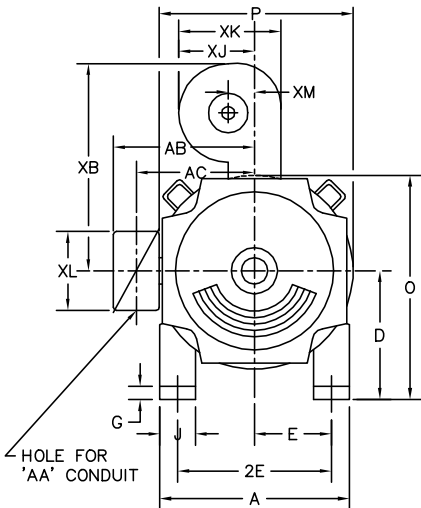
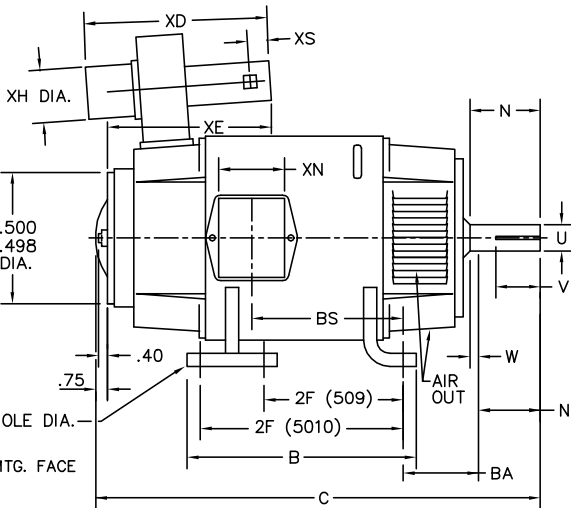
1/2-13UNC-2B THD X 1.00 DP.
4-HOLES ON A 7.250 DIA. B.C.

5/8-11UNC-2B THD
X 1.25 DP. IN SHAFT
END.



ACCESSORY MTG. FACE

(4)H HOLE DIA.



	FOOT MOUNTING							D.E. SHAFT EXTENSION					DRIVE KEY		FRAME					
FRAME	BA	E	2F (509)	2F (5010)	G	H	J	N	N-W	U	V	W	KEY-SQ.	KEY-LONG	A	B	C	D	O	P
5010AT	8.50	10.00	28.00	32.00	1.18	1.188	4.50	6.76	6.57	3.250	6.32 ³	.19	.750	5.25	24.88	34.75	61.75	12.50 ²	24.91	24.81

	CONDUIT BOX							BLOWER								APPROXIMATE WEIGHT	
FRAME	AA	AB	AC	AF	BS	XL	XN	SIZE	XB	XD	XE	XH	XM	XJ	XK		XS
5010AT	4	21.20	17.19	2.84	30.12	13.40	13.50	9	25.50	28.31	20.94	10.75	5.50	12.38	15.25	3.75	3526

- 1) SHAFT DIAMETERS ABOVE 1.500 TOLERANCE +.0000 -.0010
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) CONDUIT BOX CAN BE ROTATED IN 90° STEPS ON ITS OWN AXIS.
- 5) THERE ARE TWO HOLES FOR 4" CONDUIT, SECOND HOLE IS 6" TOWARD DRIVE END.
- 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: NEW LOAD

REV. LTR: -

BY: RRL

REVISED: 13:54:56 03/19/2003

TDR: 289015

9-7771

FILE: CHB00010378

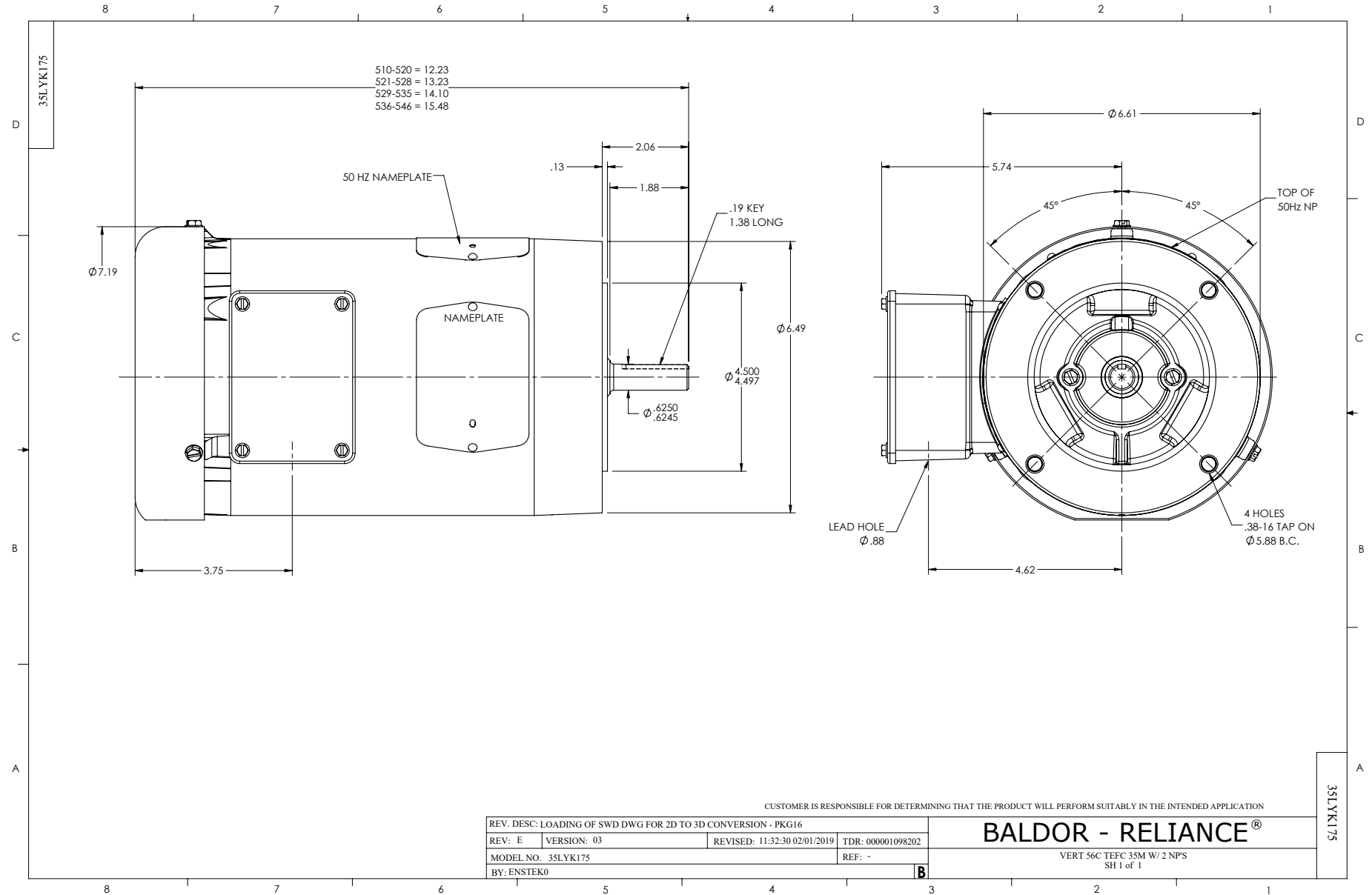
MTL: -

REF: 1227-6

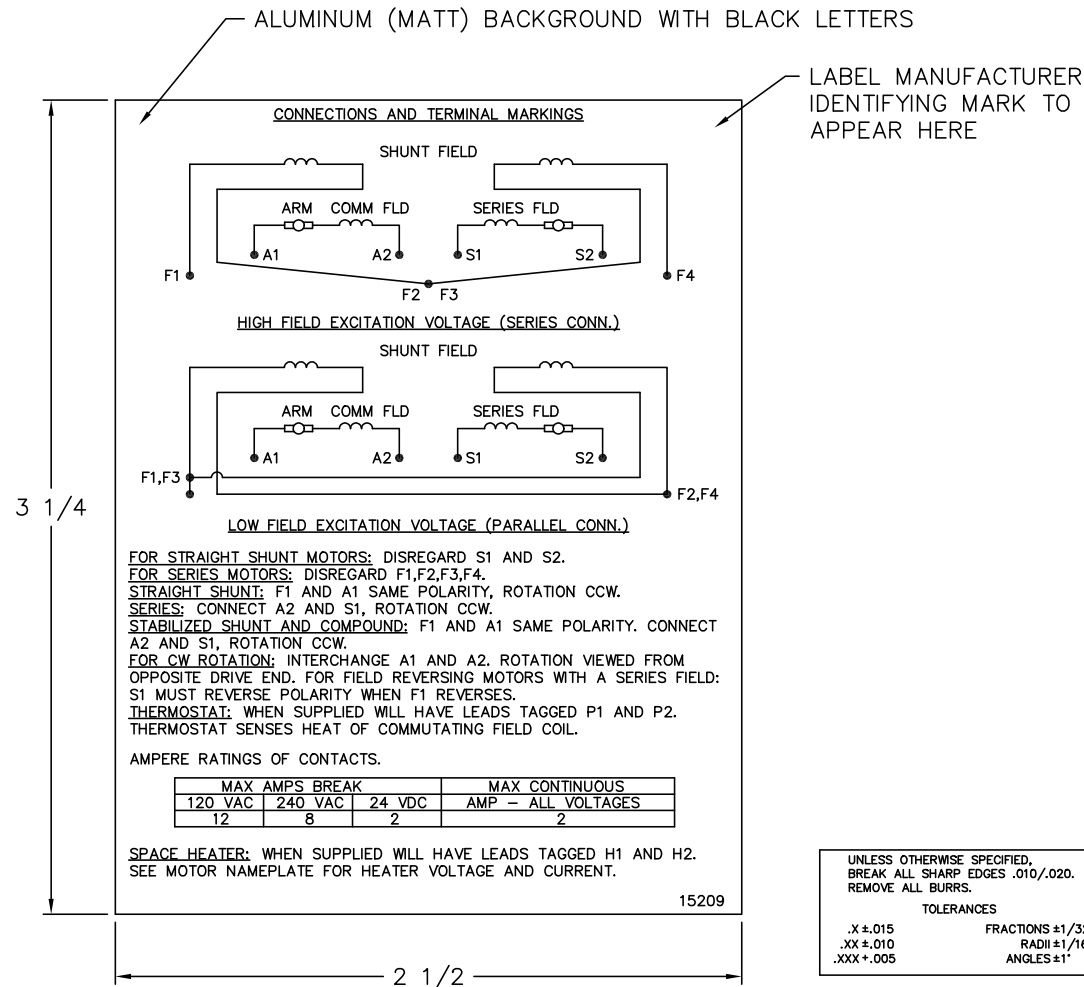
BALDOR ELECTRIC Co.

5010AT,DPBV,LM9 BLOWER,DIRECT COUPLED ONLY,509 & 5010 FEET

1227-6



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 FRACTIONS ±1/32
 .XX ±.010 RADII ±1/16
 .XXX ±.005 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