

ABB BALDOR RELIANCE III

Customer information packet

D50250P2-BV

250HP, 1750/1900RPM, DC, 504-6AT, DPBV, F1, N

Specifications

Armature Voltage	500 V
Base Speed	1750 rpm
Enclosure	DPBV
Field Voltage	150 V
	300 V
Frame	504AT
Frame Material	Steel
Output Power	250.000 HP
Agency Approvals	CSA
Ambient Temperature	40 °C
Armature Current	405.0 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	45.75 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

Part Detail

Revision	D
Type	DC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	K0112A A
Layout	2339-4
Eff. date	03-22-2022
CD Diagram	15209
Poles	00
Leads	
Proprietary	False
Created date	04-09-2015

Nameplate

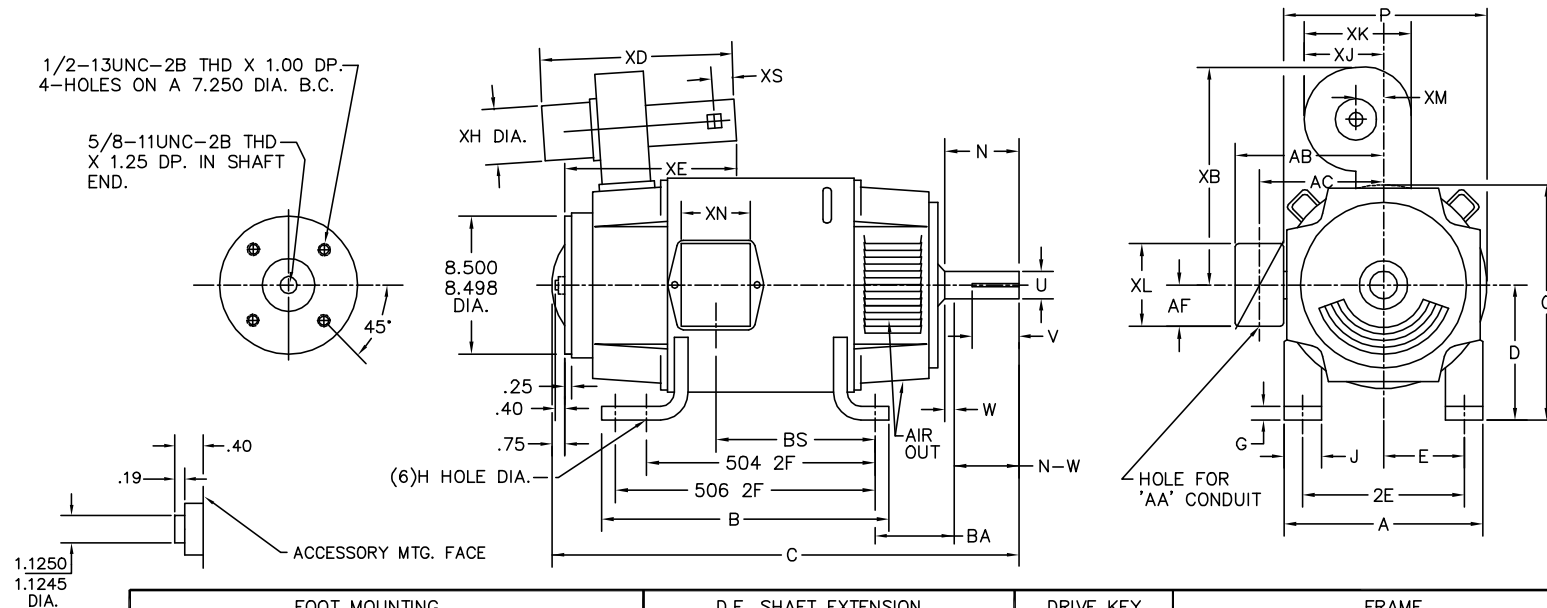
NP1734									
CAT.NO.				MODEL	T50R8003				
HP	250	RPM	1750/1900		FRAME		504-6AT		
ARM V	500		ARM A		405.00	WOUND	STR. SHUNT		
FLD V	150/300		FLD A		14.58-9.70/7.29-4.85				
CONN			OHMS				CL	F	
ENCL	DPBV		DUTY		CONT		MX AMB	40	
P CODE	C		CTSR				SER.F.	1.0	
S/N				E/S	K0112A A				
	BRUSH:50034-2								
O.D.E. BRG.	6216	D.E. BRG.		6218	BRUSH				QTY

Parts List

Part number	Description	Quantity
SA296988	SA T50R8003	1.000 ea
AA016039	AA T50R8003	1.000 ea
036170004DA	DRSCW METRIC NAMEPLATE	4.000 ea
150247	CAUTION LABEL,BLWR WHEEL ROTATION,MYLAR	1.000 ea
150047-3	TERMINAL, FR 500, B DIM=3	4.000 ea
150048-3	TERMINAL,500FR,B DIM=3	4.000 ea
NP1734	NPL,BALDOR DC MTR ALUMINUM	1.000 ea
15209	LABEL CONNECTIONS & TERMINAL MARKIN	1.000 ea
032018004BK	HHCS 5/16-18X1/2 PLATED	4.000 ea
15094	DISHED LOCKWASHER .332 ID, .865 OD	4.000 ea
50009-2	BRUSH ROCKER ASSY FR 50 SERIES	1.000 ea
50034-2	BRUSH,500 FR. SERIES E-77 SGL/CARBON	8.000 ea
004824015A	GREASE POLYREX EM	1.100 lb
032018014CK	HHCS 3/8-16X1-3/4L	4.000 ea
032018014EK	HHCS 5/8-11X1-3/4 PLTED.	4.000 ea
032018014EK	HHCS 5/8-11X1-3/4 PLTED.	4.000 ea
032018016CK	HHCS 3/8-16X2 PLATE	4.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
50051-9	CE BRKT MACH FR 500 STD FOR LOCKED	1.000 ea
50052-10	FE BRKT MACH FR 500 STD FOR LOCKED	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HW5100A18	WAVY WASHER, WB#W6173-058	1.000 ea
85XU1008A06	10-32X3/8 TY U DRIVE	4.000 ea
032018004BK	HHCS 5/16-18X1/2 PLATED	2.000 ea
032018004BK	HHCS 5/16-18X1/2 PLATED	4.000 ea
032018006BK	HHCS 5/16-18X3/4 PLATED	4.000 ea
032018006DK	HHCS 1/2-13X3/4 PLATED	4.000 ea
032018008CK	HHCS 3/8-16X1L PLATED	4.000 ea
034036014AB	EX.TOOTH LCKW 3/8 PLTD.	1.000 ea

15021-1	ACCESSORY FACE COVER FRAME 180-500 SERIE	1.000 ea
15025	TERMINAL BOX BACK FRAME 36 & 40 SERIES #	1.000 ea
15026-1	COVER TERM BOX MACH FR 36 & 40 SERIES	1.000 ea
150906-62	GRDG STUD,HX HD BOLT 3/8-16,W/HD PAINTED	1.000 ea
36246	GASKET,TERM.BOX,FR.360 1/8 THK ARMSTRONG	1.000 ea
40030-1	FLANGENIPPLEMACH400FRAME3"-8N.P.T40030	1.000 ea
50025-2	VENT COVER,FAN END #16 GA STEEL	3.000 ea
50026-1	SOLID CVR,FE,FR-500 14GA (.075THK)	1.000 ea
50027-1	GASKET CVR,FE,FR-500 3/32 THK CORK/NEOPR	4.000 ea
FVB95010	BLOWER FILTER KIT LM9 WITH FILTER	1.000 ea
032130004BA	SHCS 1/2 IN.	48.000 ea
HW4001A12	3.00 NPT SQUARE HEAD PIPE PLUG	1.000 ea
004824007BTW	SPECIAL PAINT4824-3BVZ	0.500 ea
034180042JA	KEY FE SHAFT EXT	1.000 ea

2339-4



FRAME	FOOT MOUNTING							D.E. SHAFT EXTENSION					DRIVE KEY		FRAME					
	BA	E	504 2F	506 2F	G	H	J	N	N-W	U	V	W	KEY-SQ.	KEY-LONG	A	B	C	D	O	P
504-6AT	8.50	10.00	16.00	20.00	1.18	1.188	4.50	6.76	6.57	3.250 ¹	6.32 ⁴	.19	.750	5.25	24.88	22.88	45.75	12.50 ³	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
504—6AT	3	20.65	16.81	2.62	13.25	11.63	7.76	9	25.50	28.31	20.94	10.75	5.50	12.38	15.25	3.75	1957

- 1) SHAFT DIAMETERS ABOVE 1.500 TOLERANCE +.0000 -.0010
- 2) SHAFT DIAMETERS ABOVE 1.625 RUNOUT .003 T.I.R. MAX.
- 3) 'D' DIMENSION TOLERANCE +.000 - .060
- 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.

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

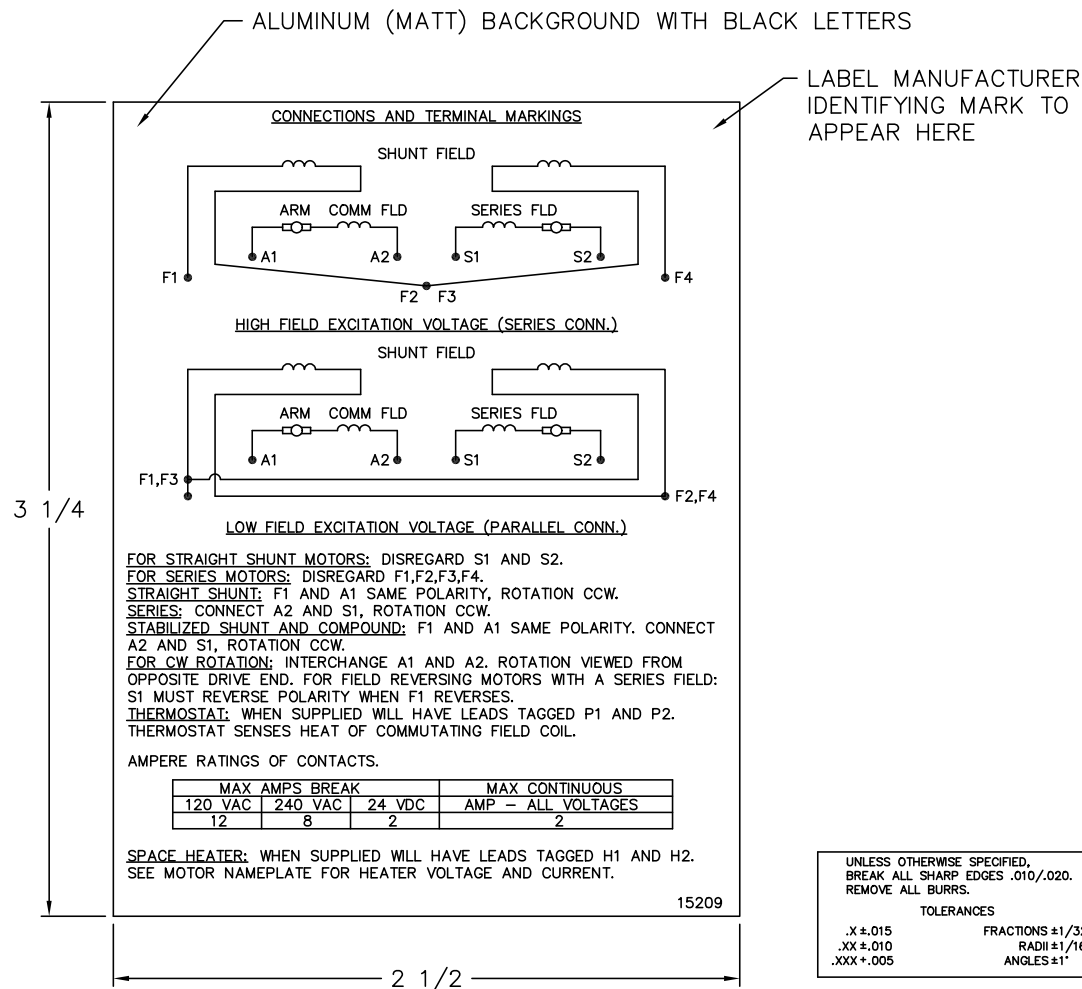
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BALDOR ELECTRIC Co.

DIM SHEET,504-6AT,DPBV,504/506 MTG,LM9 BLOWER

2339-4

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