ABB BALDOR RELIANCE

Customer information packet

D50250P2-BV

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

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/26/2026 6:41:29 PM

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

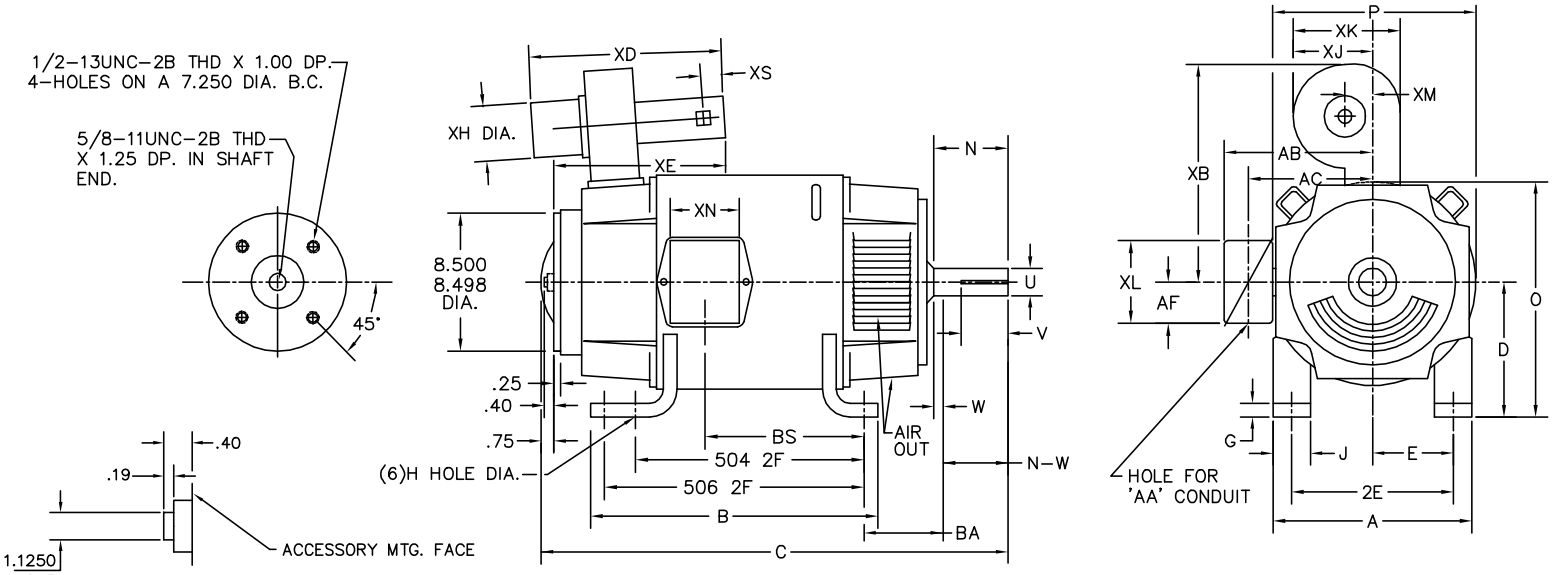
Part Detail

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.	D50250P2-BV			**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**		

2339-4



FOOT MOUNTING								D.E. SHAFT EXTENSION					DRIVE KEY		FRAME					
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.

REV. DESC: NEW			BALDOR ELECTRIC Co.
REV. LTR: -	BY: MBT	REVISED: 08:49:51 04/08/2004	TDR: 328876
2339-4		FILE: CHB00011581	REF: 2339-4
		MTL: -	DIM SHEET,504-6AT,DPBV,504/506 MTG,LM9 BLOWER

2339-4

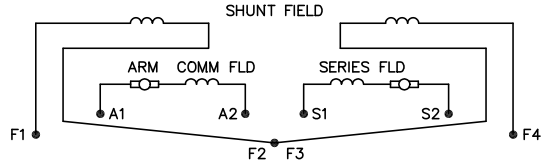
15209

ALUMINUM (MATT) BACKGROUND WITH BLACK LETTERS

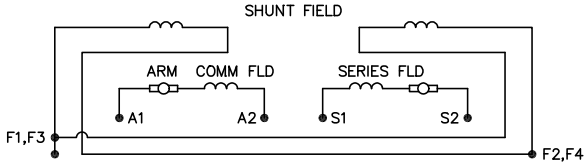
LABEL MANUFACTURER IDENTIFYING MARK TO APPEAR HERE

3 1/4

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

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