ABB BALDOR RELIANCE

Customer information packet

D50250P

250HP, 1750/1900RPM, DC, 506AT, DPFG, F1, N

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Specifications

Armature Voltage	500 V
Base Speed	1750 rpm
Enclosure	DPFG
Field Voltage	150 V
	300 V
Frame	506AT
Frame Material	Steel
Output Power	250.000 HP
Agency Approvals	CSA
Ambient Temperature	40 °C
Armature Current	392.0 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	55.00 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
Thermal Device - Bearing	None

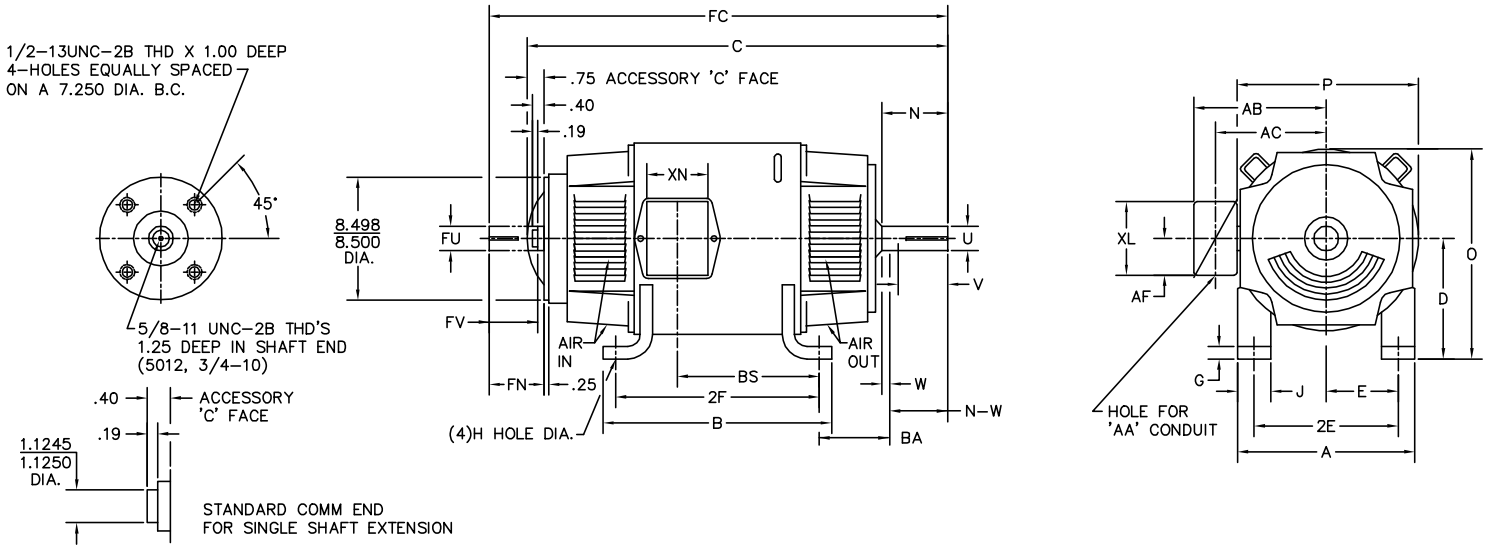
Part Detail

Revision	B
Type	DC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	K0113A A
Layout	877-3
Eff. date	03-22-2022
CD Diagram	15209
Poles	00
Leads	
Proprietary	False
Created date	04-09-2015

Nameplate

NP1734									
CAT.NO.	D50250P			**MODEL**	T50R8002				
HP	250	**RPM**	1750/1900		**FRAME**	0506AT			
ARM V	500	**ARM A**	392.00		**WOUND**	STR. SHUNT			
FLD V	150/300	**FLD A**	14.10-10.04/7.05-5.02						
CONN		**OHMS**			**CL**	F			
ENCL	DPFG	**DUTY**	CONT		**MX AMB**	40			
P CODE	D	**CTSR**			**SER.F.**	1.0			
S/N				**E/S**	K0113A A				
	BRUSH:50034-2								
O.D.E. BRG.	6216	**D.E. BRG.**	6218		**BRUSH**		**QTY**		

877-3



	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	FC	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	45.75	51.00	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	49.75	55.00	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	54.75	60.00	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	61.75	67.00	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	65.75	71.00	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	79.75	12.50 [2]	24.91	24.81

	CONDUIT BOX							ARM APPROX. WK² LBS.FT.²	APPROXIMATE WEIGHT
FRAME	AA	AB	AC	AF	BS	XL	XN		
504AT	3	20.65	16.81	2.62	13.25	11.63	7.76	79.10	1910 [5]
506AT	3	20.65	16.81	2.62	17.25	11.63	7.76	98.76	2290 [5]
508AT	3	20.65	16.81	2.62	22.25	11.63	7.76	121.87	2820 [5]
5010AT	4 [4]	21.20	16.81	2.84	30.12	13.40	13.50	156	3450 [5]
5011AT	4 [4]	21.20	16.81	2.84	34.12	13.40	13.50	161	3810 [5]
5012AT	4 [4]	21.20	17.19	2.84	41.12	13.40	13.50	170	4887 [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.
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: D	BY: MBT	REVISED: 07:59:01 04/22/2003	TDR: 299170
877-3		FILE: CHB00001040	REF: 877-3
		MTL: -	DIM SHEET: 504-5012AT,DPFG

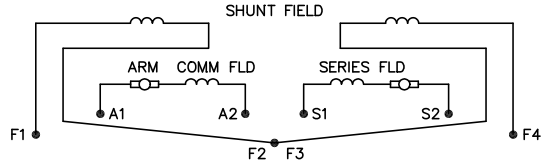
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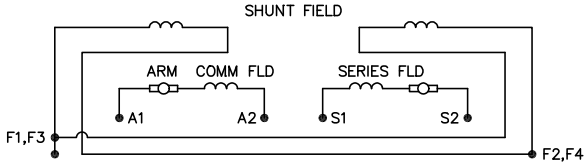
ALUMINUM (MATT) BACKGROUND WITH BLACK LETTERS

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

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