ABB BALDOR RELIANCE

Customer information packet

D5520P

0328AT, 20HP, 1750RPM, 500, 150, TEFC, F1

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Specifications

Armature Voltage	500 V
Base Speed	1750 rpm
Enclosure	TEFC
Field Voltage	150 V
	300 V
Frame	328AT
Output Power	20.000 HP
Agency Approvals	CSA
Ambient Temperature	40 °C
Armature Current	32.7 a
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	42.45 IN
Service Factor	1.00
Shaft Diameter	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Slinger Indicator	No Slinger
Thermal Device - Bearing	None

Part Detail

Revision	A
Type	DC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	K0083A A
Layout	885-4
Eff. date	10-03-2023
CD Diagram	15209
Poles	00
Leads	
Proprietary	False
Created date	12-18-2019

Nameplate

NP1734											
CAT.NO.	D5520P			**MODEL**	T32S8008						
HP	20	**RPM**	1750/2300		**FRAME**	0328AT					
ARM V	500	**ARM A**	32.70		**WOUND**	STR. SHUNT					
FLD V	150/300	**FLD A**	2.22-1.30/1.11-.65								
CONN		**OHMS**	171.		**CL**	F					
ENCL	TEFC	**DUTY**	CONT		**MX AMB**	40					
P CODE	D	**CTSR**			**SER.F.**	1.0					
S/N				**E/S**	K0083A A						
	-										
O.D.E. BRG.	6210	**D.E. BRG.**	6211		**BRUSH**	28610-7		**QTY**	2		

Parts List

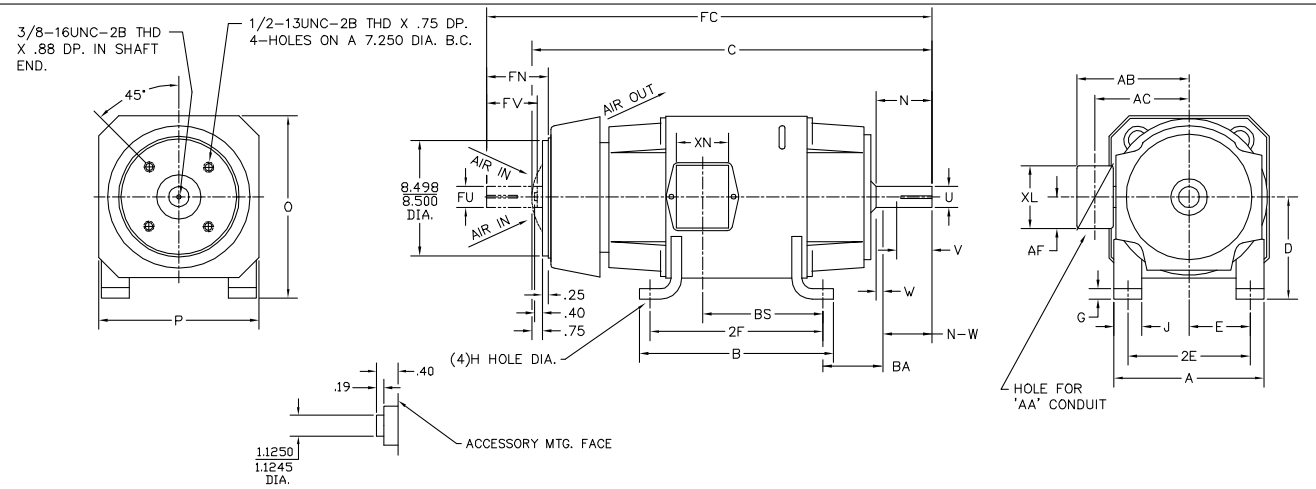
Part number	Description	Quantity
SA377228	SA T32S8008	1.000 ea
AA018238	AA T32S8008	1.000 ea
036170004DA	DRSCW METRIC NAMEPLATE	4.000 ea
NP1734	NPL,BALDOR DC MTR ALUMINUM	1.000 ea
032018004BK	HHCS 5/16-18X1/2 PLATED	2.000 ea
15094	DISHED LOCKWASHER .332 ID, .865 OD	2.000 ea
BP5228R01	BR ROCKER ASSY,FR 28 & 32 SINGLE BRUSH	1.000 ea
28610-7	BRUSH,280/320FR.IM9101MORGANITE/619HELWI	2.000 ea
32031-5	CE BRKT MACH FR 320 FOR LOCKED C.E	1.000 ea
32029-10	BRKT,STD. LOCKED C/E 320AT	1.000 ea
004824015A	GREASE POLYREX EM	0.400 lb
032130010DA	1/2-13 X 1.25 HSHCS	4.000 ea
032018040DK	HHCS 1/2-13X5L PLATED	4.000 ea
15185-7	LUBE EXTENSION 4.00" LONG	1.000 ea
15185-6	LUBE EXTENSION 3.06 LENGTH	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
15548-3	8485200000	1.000 ea
400638001G	WAVEN (Customer number 43699)	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
15548-2	LUB FITTING,PRESS-IN ALEMITE #1743-B/EQ	1.000 ea
032130016BA	HSHCS OUTER CAP LE	4.000 ea
150449-31	GRD STUD ARG .312DIA STUD	1.000 ea
15024-7	28021-2/BOX FR. 280/3201/8" THK.,MUELL	1.000 ea
15024-7	28021-2/BOX FR. 280/3201/8" THK.,MUELL	1.000 ea
15555-150	KEY .500/.498 SQ	1.000 ea
32051-1	FAN MACH FR 320ALUM ALUMINUM	1.000 ea
15021-2	ACC.FACE SCRN,1/2 #13/15 FLTND. EXP.META	1.000 ea
32555	SHROUD & GUARD ASSY FR 320 ASSY	1.000 ea
032018006CK	HHCS 3/8-16X3/4L PLATED 411409	4.000 ea
032018010DK	HHCS 1/2-13X1-1/4 PLATED	4.000 ea
032620012MB	3/8-13 X 3/8 HXSS SCREW ZINC	2.000 ea

032620032KB	HSSS 1/4-20X1" PLTD - 360	4.000 ea
032018006DK	HHCS 1/2-13X3/4 PLATED	4.000 ea
15115	TERM BOX HOLE COVER FRAME 280 & 320	1.000 ea
032018004AK	HHCS 1/4-20X1/2 PLATED	4.000 ea
32020-2	GASKET COVER COM END FRAME 320 SERIES	3.000 ea
32020-1	GASKET, COVER, FAN END	3.000 ea
032018004BK	HHCS 5/16-18X1/2 PLATED	28.000 ea
32055	C-FACE COVER MACH FR 32 SERIES TEFC	1.000 ea
32019-1	ACCESS COVER FRAME 32 SERIES #14 GA STE	3.000 ea
32019-2	ACCESS COVER FRAME 32 SERIES	3.000 ea
033100012AB	1/4-20 HX MACH SCREW NUT	4.000 ea
15599-37	DRIVE SCR,#10 X.37 TYPE UPLATED STEEL	6.000 ea
32023-2	SOLID SMILE COVER, FR 320	1.000 ea
15024-6	TERM.BOX BASE FR-320, DUREX P/N:3SP	1.000 ea
15024-4	TERM.BOX CVR. FR-28,32,36DUREX P/N:D618	1.000 ea
15024-5	GASKET, T.BOX COVER	1.000 ea
032018004AK	HHCS 1/4-20X1/2 PLATED	2.000 ea
032018008BK	HHCS 5/16-18X1L PLATED	4.000 ea
15209	LABEL CONNECTIONS & TERMINAL MARKIN	1.000 ea
15442	COVER RING TEFC ACC FACE #14 GA CR	1.000 ea
034180025GA	KEY,DE	1.000 ea
004824007BTW	SPECIAL PAINT4824-3BVZ	0.200 ea

Accessories

Part number	Description	Multiplier
94EP5000A01	C-FACE CONVERSION KIT STOCK MTR,FR 320	

885-4



	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
327AT	5.25	6.25	14.00	.81	.656	3.00	4.40	4.25	2.125	4.00 [3]	.15	.500	3.12	3.94	1.875	3.69	.500	2.81	15.88	15.75	37.06	40.57	8.00 [2]	15.94	15.88
328AT	5.25	6.25	16.00	.81	.656	3.00	4.40	4.25	2.125	4.00 [3]	.15	.500	3.12	3.94	1.875	3.69	.500	2.81	15.88	17.75	38.94	42.45	8.00 [2]	15.94	15.88
329AT	5.25	6.25	18.00	.81	.656	3.00	4.40	4.25	2.125	4.00 [3]	.15	.500	3.12	3.94	1.875	3.69	.500	2.81	15.88	19.75	40.94	44.45	8.00 [2]	15.94	15.88
365AT	5.88	7.00	12.25	.81	.813	3.25	4.94	4.75	2.375	4.50 [3]	.19	.625	3.50	4.62	2.125	4.37	.500	3.13	17.75	13.75	37.91	42.62	9.00 [2]	17.94	17.88
366AT	5.88	7.00	14.00	.81	.813	3.25	4.94	4.75	2.375	4.50 [3]	.19	.625	3.50	4.62	2.125	4.37	.500	3.13	17.75	15.50	40.10	44.81	9.00 [2]	17.94	17.88
368AT	5.88	7.00	18.00	.81	.813	3.25	4.94	4.75	2.375	4.50 [3]	.19	.625	3.50	4.62	2.125	4.37	.500	3.13	17.75	19.50	43.10	47.81	9.00 [2]	17.94	17.88
3610AT	5.88	7.00	22.00	.81	.813	3.25	4.94	4.75	2.375	4.50 [3]	.19	.625	3.50	4.62	2.125	4.37	.500	3.13	17.75	23.50	46.10	50.81	9.00 [2]	17.94	17.88
3612AT	5.88	7.00	28.00	.81	.813	3.25	4.94	4.75	2.375	4.50 [3]	.19	.625	3.50	4.62	2.125	4.37	.500	3.13	17.75	29.50	49.10	53.81	9.00 [2]	17.94	17.88

	CONDUIT BOX							ARM APPROX. WK^2 LBS.FT.^{2}	APPROXIMATE WEIGHT
FRAME	AA	AB	AC	AF	BS	XL	XN		
327AT	2	12.94	10.32	5.00	11.81	7.88	5.25	8.45	760 [5]
328AT	2	12.94	10.32	5.00	13.68	7.88	5.25	9.67	835 [5]
329AT	2	12.94	10.32	5.00	15.68	7.88	5.25	10.97	944 [5]
365AT	2 1/2	14.06	11.38	5.00	9.06	7.88	5.25	15.61	865 [5]
366AT	2 1/2	14.06	11.38	5.00	11.25	7.88	5.25	18.27	975 [5]
368AT	2 1/2	14.06	11.38	5.00	14.25	7.88	5.25	22.21	1135 [5]
3610AT	3	16.86	13.09	6.53	18.25	11.63	7.76	28.00	1213 [5]
3612AT	3	16.86	13.09	6.53	24.25	11.63	7.76	31.60	1552 [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) "O" 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) TOTAL WEIGHT OF MOTOR AND FAN COOLED PACKAGE.
6) ALL DIMENSIONS NOT NOTED ARE NOMINAL DIMENSIONS CONSULT FACTORY FOR TOLERANCES.

FOR F1 OR F2 CONDUIT BOX
LOCATION SEE SALES ORDER

885-4

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

REV. DESC: 885-4 RESCALE DRAWING IN BUS		BALDOR
REV. LTR: C	VERSION: 02	TDR: 0000007638 80
FILE: \RGG\00019\544	REVISED: 09:37:55 09/07/2012	BY: RGGWT
MTL: -		DIM SHEET SH 1 of 1

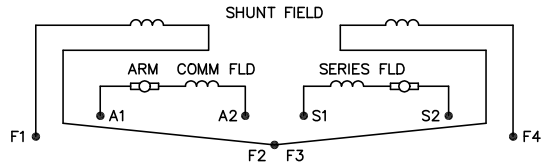
15209

ALUMINUM (MATT) BACKGROUND WITH BLACK LETTERS

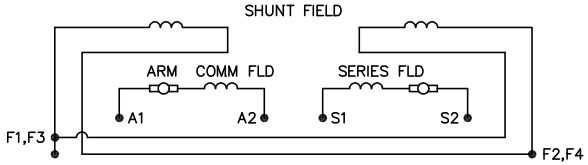
LABEL MANUFACTURER IDENTIFYING MARK TO APPEAR HERE

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				BALDOR ELECTRIC Co.
REV:	G	CHANGE ALL "NAMEPLATE" TEXT TO "LABEL"		
15209	SCALE: –	BY: BKW	REVISED: 02/19/97	LABEL, CONNECTIONS AND TERMINAL MARKINGS DC
	FILE: CHB00002485		TDR: 0115147	

15209