BALDOR
A MEMBER OF THE ABB GROUP

BALDOR • RELIANCE

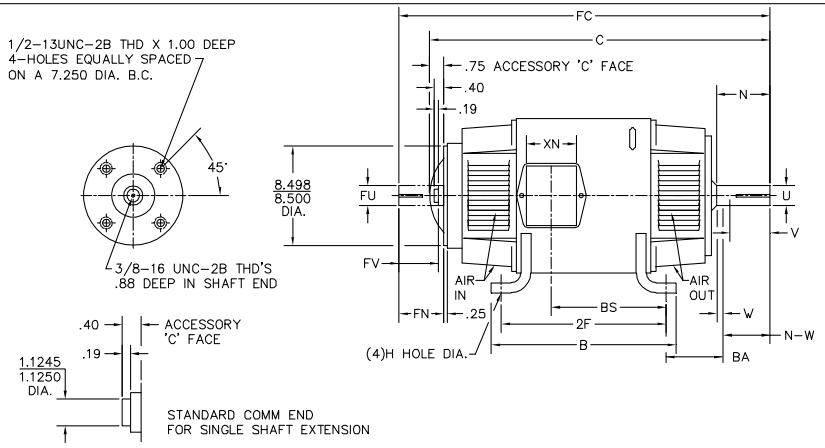
Product Information Packet

D5040P

40HP,1750/2100RPM,DC,328AT,DPFG,F1

Part Detail			
Type:	DC	**Prod. Type:**	T
Power Code:	D	**Weight:**	784
Frame Group:	0328AT	**Mounting Pos.:**	F1
HP:	40	**Enclosure:**	DPFG
RPM:	1750/2100	**Wound:**	STR. SHUNT
Service Factor:	1.0	**Arm V:**	500
Arm A:	67.90	**Field V:**	150/ 300
Field A:	6.80/3.40	**Field A Hot:**	4.34-3.00/2.17-
Insulation Class:	F	**Ambient:**	40
Duty:	CONT	**DE Bearing:**	6211
ODE Bearing:	6210	**Brushes:**	28610-2
Brush Qty.:			

877-1



	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	33.50	36.71	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	35.38	38.58	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	37.38	40.58	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	33.69	37.56	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	35.88	39.75	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	38.88	42.75	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	42.20	46.10	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	46.31	49.10	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	700 [5]
328AT	2	12.94	10.32	5.00	13.68	7.88	5.25	9.67	775 [5]
329AT	2	12.94	10.32	5.00	15.68	7.88	5.25	10.97	884 [5]
365AT	2 1/2	14.06	11.38	5.00	9.06	7.88	5.25	15.61	765 [5]
366AT	2 1/2	14.06	11.38	5.00	11.25	7.88	5.25	18.27	875 [5]
368AT	2 1/2	14.06	11.38	5.00	14.25	7.88	5.25	22.21	1035 [5]
3610AT	3	16.86	13.09	6.53	18.25	11.63	7.76	28.00	1070 [5]
3612AT	3	16.86	13.09	6.53	24.25	11.63	7.76	31.60	1136 [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 - .080
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.
6) ALL DIMENSIONS NOT NOTED ARE NOMINAL DIMENSIONS CONSULT FACTORY FOR TOLERANCES.

FOR F1 OR F2 CONDUIT BOX
LOCATION SEE SALES ORDER

877-1

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

REV. DESC: RELOAD TO BUS		
REV. LTR: C	VERSION: 02	TDR: 000000773327
FILE: \RGG\00019\101	REVISED: 10:43:23 11/09/2012	BY: RGGWT
MTL: –		

BALDOR
DIM SHEET
SH 1 of 1

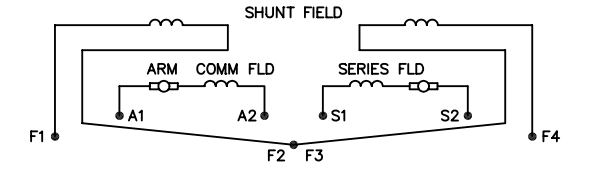
15209

ALUMINUM (MATT) BACKGROUND WITH BLACK LETTERS

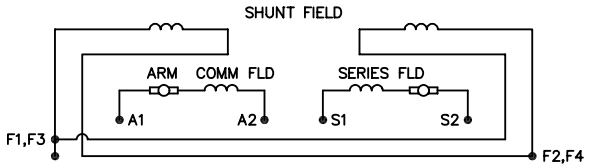
LABEL MANUFACTURER IDENTIFYING MARK TO APPEAR HERE

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

REL S.O.	FRAME	RATING	RPM	ARM. VOLTS	ARM. AMPS
	328	40.0HP	1750	500	67.9

WINDING TYPE	S.F.	ENCL.	AMB °C/INSUL	DUTY	FIELD VOLTS
STRAIGHT SHUNT	1.0	DPG	40/F	CONT	300

POWER CODE	TYPE	WK^2 (LB-FT^2)	HOT ARM.CIR.RES.	FLD. AMPS@25 °C	HOT FIELD RES
D	T	7.377	.495	3.39	138

ARM. CIR. IND. (mh)	FIELD IND. (H)	COOLING AIR(CFM/IN H_2O)	TURNS PER COIL SHUNT/SERIES	TEST DATE
8.53	61.3	-/-	2000/.00000	-

LOAD PERFORMANCE

LOAD	AMPERES	TORQUE IN LB.-FT.	OUTPUT IN HP	RPM	% EFFICIENCY
NO LOAD	2.4	0	0	1812	0
1/4	17	27.9	9.51	1790	75.7
2/4	34	60.0	20.2	1769	84.0
3/4	51	91.4	30.5	1752	86.0
4/4	68	121	40.3	1745	86.0
O.L.	102	176	58.5	1751	84.1

RPM VS. FIELD AMPS / Eg VS. FIELD AMPS

FIELD AMPS	RPM N.L.	RPM F.L.	Eg N.L. @ BASE SPEED	Eg F.L. @ BASE SPEED
2.16	1811	1745	481	465
1.99	1910	1831	459	443
1.82	2028	1949	432	416
1.65	2180	2102	401	386
1.48	2380	2300	366	352

REMARKS: TYPICAL DATA

BALDOR • DODGE • RELIANCE

DR. BY E.H. GILLOT
CK. BY R.ERLACHER
APP. BY R.ERLACHER
DATE 04-02-2009

D-C MOTOR PERFORMANCE DATA

DK0066A

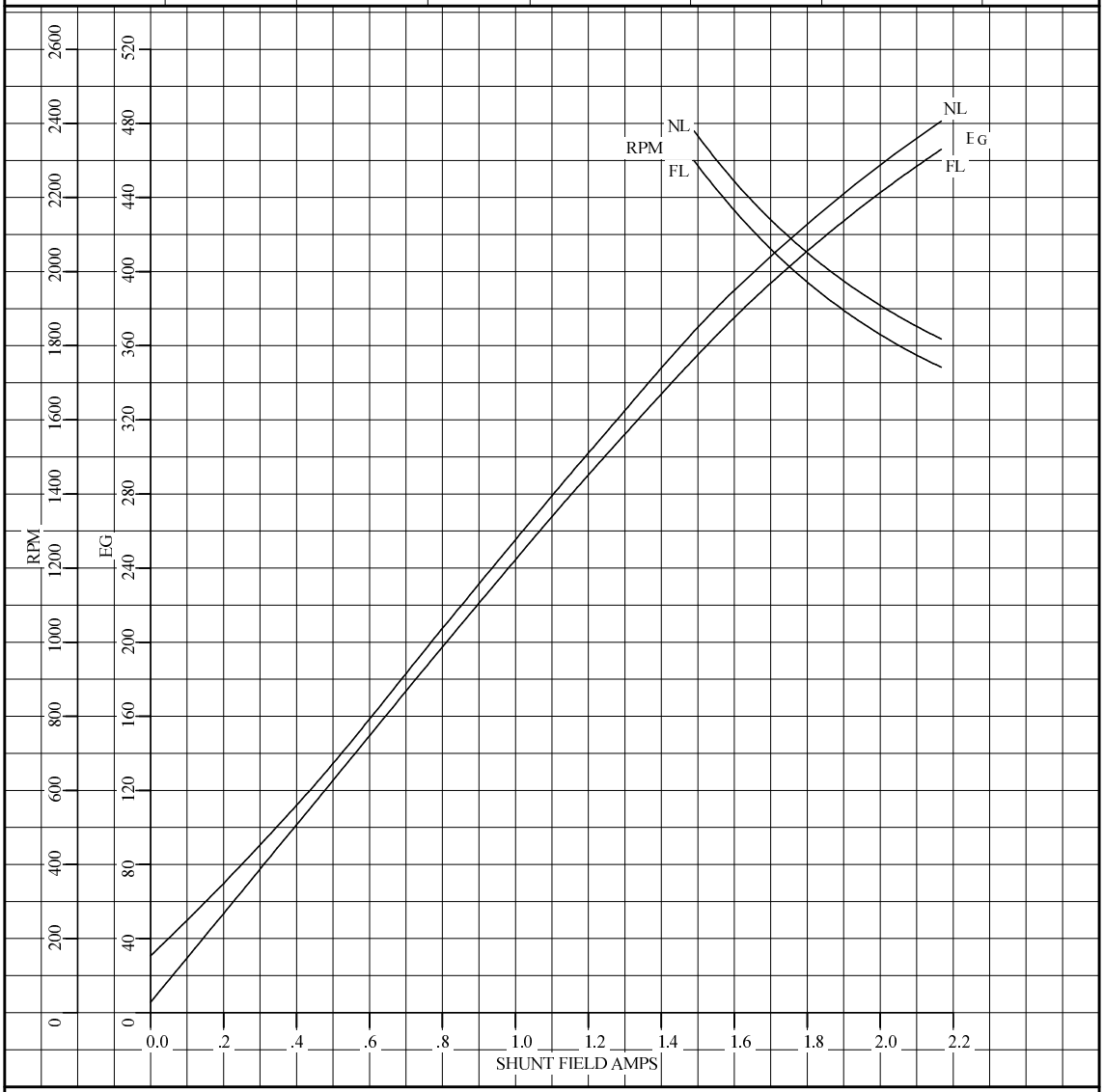
ISSUE DATE 07-16-2009

REL S.O.	FRAME	RATING	BASE SPEED	WINDING TYPE
	328	40.0HP	1750	STRAIGHT SHUNT

S.F.	ENCL.	AMB°C/INSUL	DUTY	POWER CODE/FORM FACTOR	TYPE	WK²(LB-FT²)
1.0	DPG	40/F	CONT	D	T	7.377

COOLING AIR(CFM/IN H_2O)	$\bar{J}$ (sec)	$\bar{R}$ (hot)	T_E	T_M	BASIC RPM	MAX CONT RPM	WINDER RPM	MAX. SAFE
-/-	.349	.0777	.0160	.0271	2100	2300	-	-

WINDING	VOLTS	RESISTANCE		CURRENT		INDUCTANCE	TURNS PER COIL
		25°C	HOT	25°C	HOT		
ARM CIRCUIT	500	.365	.495	-	67.9	8.53 mH	-
SERIES S1-S2	-	-	-	-	-	-	-
SHUNT F1-F2	300	88.4	138	3.40	2.17	61.4 H	2000



REMARKS: TYPICAL DATA
CURVES VALID FOR NAMEPLATE SPEED RANGE ONLY

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DR. BY	E.H. GILLOT
CK. BY	R.ERLACHER
APP. BY	R.ERLACHER
DATE	04-02-2009

D-C APPLICATION DATA

SK0066A

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