

BALDOR® • RELIANCE

Product Information Packet

D50400R-BV

400HP,1750RPM,DC,4013ATZ,DPG-FV,

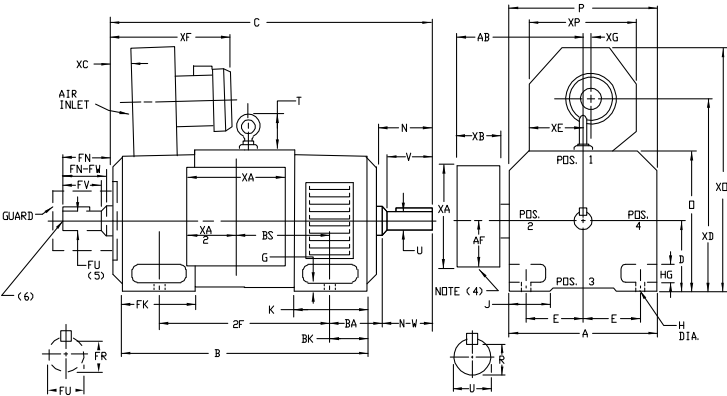
Part Detail			
Type:	DC	Prod. Type:	TR
Power Code:	C	Weight:	3040
Frame Group:	MC 4013ATZ	Mounting Pos.:	F2
HP:	400	Enclosure:	DPFV
RPM:	1750/2000	Wound:	STR. SHUNT
Service Factor:	1.0	Arm V:	500
Arm A:	640.00	Field V:	300
Field A:	11.94	Field A Hot:	8.27/7.10
Insulation Class:	F	Ambient:	40
Duty:	CONT	DE Bearing:	95BC02J30X
ODE Bearing:	95BC02J30X	Brushes:	419904-52AB
Brush Qty.:			

609962-013

INDUSTRIAL DIRECT CURRENT MOTORS
AND GENERATORS - RPM III

ENCLOSURE: DRIP-PROOF FULLY-GUARDED COOLING: FORCE VENTILATED
WITH INTEGRAL
SPLASHPROOF BLOWER AND MOTOR
MOUNTING: FOOT ACCESSORIES: PROVISION FOR
TACHOMETER MOUNTING
ONLY WHEN SPECIFIED

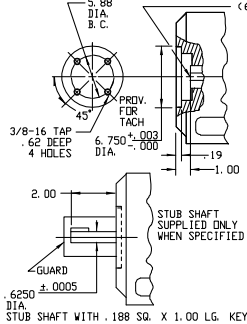
FRAMES C4011ATZ THRU ULC4013ATZ



DIMENSIONS ARE IN INCHES																			
FRAME	A	DK1	E	G	H	HG	J	D	P	T	BA	K	FK	BK	AB	AF	RK6		
C4011ATZ-ULC4013ATZ	19.38	10.00	8.00	1.06	1.06	2.82	3.50	19.81	19.56	4.31	6.62	8.75	12.12	5.25	16.12	8.00	6240		

FRAME	METHOD OF DRIVE	C(7)	B	BS	2F	N	N-W	UK(2)	V	R(3)	SO	LGTH	FN	FN-FW	FUK(2)	FV	FR(3)	SO	LGTH	WT. LBS.
C4011ATZ	COUPLED	58.19	46.06	16.00	28.00	7.62	7.25	3.625	7.00	3.134	.875	5.75	7.62	7.25	3.625	7.00	3.134	.875	5.75	2500
ULC4011ATZ	BELTED	55.19	42.06	14.00	25.00	8.62	8.25	4.125	8.00	3.563	1.000	6.50	7.62	7.25	3.625	7.00	3.134	.875	5.75	2305
MC4013ATZ	COUPLED	56.94	46.81	20.75	36.00	7.62	7.25	3.625	7.00	3.134	.875	5.75	7.62	7.25	3.625	7.00	3.134	.875	5.75	2800
UMC4013ATZ	BELTED	57.94	46.81	20.75	36.00	8.62	8.25	4.125	8.00	3.563	1.000	6.50	7.62	7.25	3.625	7.00	3.134	.875	5.75	2805
LC4013ATZ	COUPLED	60.19	50.06	24.00	36.00	7.62	7.25	3.625	7.00	3.134	.875	5.75	7.62	7.25	3.625	7.00	3.134	.875	5.75	3100
ULC4013ATZ	BELTED	61.19	50.06	24.00	36.00	8.62	8.25	4.125	8.00	3.563	1.000	6.50	7.62	7.25	3.625	7.00	3.134	.875	5.75	3105

FRAME	XA	XB	XC	XD	XE	XF	XG	XD	XP
C4011ATZ-ULC4013ATZ	16.00	6.00	6.88	26.00	8.69	23.50	3.38	33.62	15.12



- (1) "B" DIMENSION WILL NOT BE EXCEEDED. SHIMS UP TO .06 INCHES IN THICKNESS ARE USUALLY REQUIRED FOR COUPLED OR GEARED MACHINES.
(2) "V" AND "FW" VARY ----+.000 - .001
(3) "R" AND "FR" VARY ----+.000 - .015
(4) CUSTOMER TO PROVIDE HOLE IN TERMINAL BOX FOR CONDUIT.
(5) OPPOSITE DRIVE END SHAFT SUPPLIED ONLY WHEN SPECIFIED.
(6) MOTOR SHAFT TAPPED FOR SCREW-IN STUB SHAFT
(7) WHEN THE MOTOR APPLICATION DOES NOT REQUIRE THE USE OF OPP. DRIVE END, ADD .25 TO "C" DIM. FOR BRACKET COVER.
- TERMINAL BOX LOCATED ON OPPOSITE SIDE WHEN F-2, W-1, W-4, W-5, W-7, OR C-1 MOUNTING IS SPECIFIED. BOX LOCATED ON TOP WHEN SPECIFIED. BLOWER ASSEMBLY CAN BE LOCATED AT POSITIONS 1, 2, OR 4, EXCEPT BLOWER ASSEMBLY AND TERMINAL BOX CAN NOT BE LOCATED AT THE SAME POSITION. MOTOR WEIGHT MAY VARY 15% FOR NON-STANDARD RATINGS AND/OR ACCESSORIES. IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.

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

REV. DESC: LOADED TO BUS	VERSION: 00	TDR: 000000577407
REV. LTR: -	REVISD: 12:04:54 01/26/2011	BY: CONNAS
FILE: \RGG\00015\600		
MTL: -		

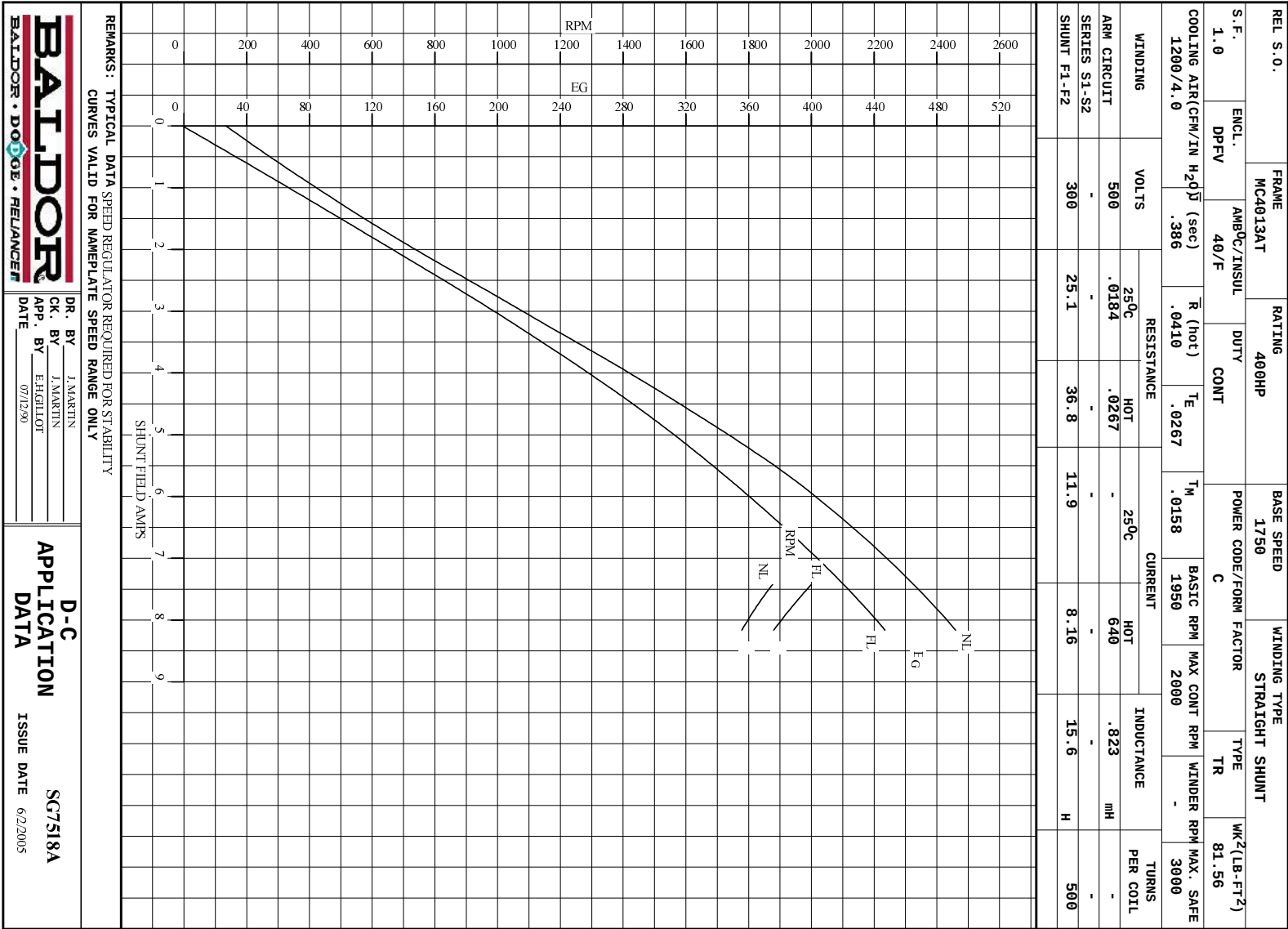
BALDOR

DIMENSION DRAWING,C4011ATZ - ULC4013ATZ,DPG,FOOT MTG.

SH 1 of 1

609962-013

Page 4 of 7



C/R 369209

REL S. O.	FRAME	RATING	RPM	ARM. VOLTS	ARM. AMPS
	MC4013AT	400HP	1750	500	640
WINDING TYPE	S. F.	ENCL.	AMB °C/INSUL	DUTY	FIELD VOLTS
STRAIGHT SHUNT	1.0	DPFV	40/F	CONT	300
POWER CODE	TYPE	WK ² (LB-FT ²)	HOT ARM.CIR.RES.	FLD. AMPS@25 °C	HOT FIELD RES
C	TR	81.56	.0267	11.9	36.7
ARM. CIR. IND. (mh)	FIELD IND. (H)	COOLING AIR(CFM/IN H 20)	TURNS PER COIL SHUNT/SERIES	TEST DATE	
.823	15.6	1200/4.0	500/.00000	-	
LOAD PERFORMANCE					
LOAD	AMPERES	TORQUE IN LB.-FT.	OUTPUT IN HP	RPM	% EFFICIENCY
NO LOAD	7.3	0	0	1774	0
1/4	160	296	100	1774	89.7
2/4	320	596	203	1791	92.9
3/4	480	874	304	1827	93.2
4/4	640	1123	402	1880	92.8
0.L.	960	1529	589	2024	90.9
RPM VS. FIELD AMPS					
FIELD AMPS	RPM N.L.	RPM F.L.	Eg N.L. @ BASE SPEED	Eg F.L. @ BASE SPEED	
8.16	1773	1879	491	446	
7.97	1800	1907	486	440	
7.79	1823	1937	480	433	
7.60	1849	1967	473	427	
7.42	1876	2000	466	420	

REMARKS: TYPICAL DATA MAXIMUM SAFE SPEED = 3000 RPM
SPEED REGULATOR REQUIRED FOR STABILITY

BALDOR • DOUG • RELIANCE	DR. BY J. MARTIN	D-C MOTOR PERFORMANCE DATA
	CK. BY J. MARTIN APP. BY E.H.GILLOT DATE 07/12/90	

C/R 369209

D67518A
ISSUE DATE 6/2/2005

