

BALDOR® • RELIANCE

Product Information Packet

D50150RS-BV

150HP,1750RPM,DC,3612ATZ,DPG-FV,

Part Detail			
Type:	DC	Prod. Type:	TR
Power Code:	C	Weight:	1630
Frame Group:	MC 3612ATZ	Mounting Pos.:	F2
HP:	150	Enclosure:	DPFV
RPM:	1750/2000	Wound:	STAB SHUNT
Service Factor:	1.0	Arm V:	500
Arm A:	240.00	Field V:	300
Field A:	4.81	Field A Hot:	3.47/2.98
Insulation Class:	F	Ambient:	40
Duty:	CONT	DE Bearing:	95BC02J30X
ODE Bearing:	80BC02J30X	Brushes:	419904-52AF
Brush Qty.:			

609972-049

INDUSTRIAL DIRECT CURRENT MOTORS AND GENERATORS - RPM III

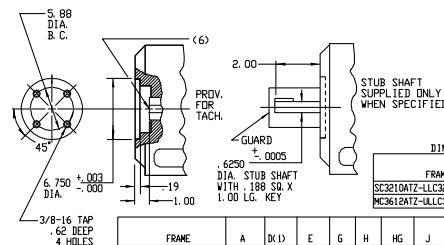
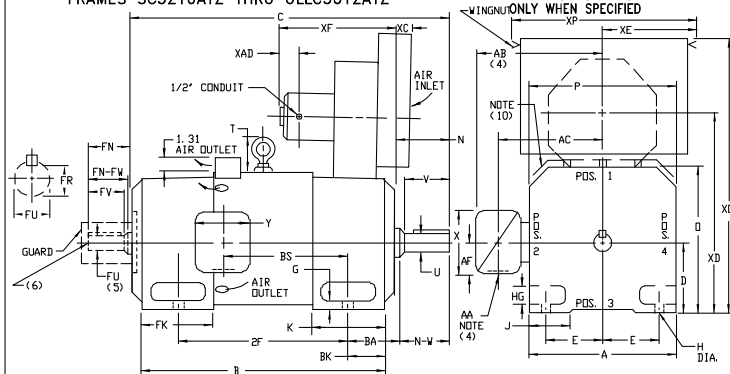
ENCLOSURE: DRIP-PROOF FULLY-GUARDED,
SPLASHPROOF

MOUNTING: FOOT

COOLING: FORCE VENTILATED WITH
INTEGRAL BLOWER AND
MOTOR AIR FILTERED-
SPECIAL Baffle

ACCESSORIES: PROVISION FOR
TACHOMETER MOUNTING
ONLY WHEN SPECIFIED

FRAMES SC3210ATZ THRU ULLC3612ATZ



DIMENSIONS ARE IN INCHES										
FRAME	XC	XD	XE	XF	XG	XP	XAD			
SC3210ATZ-LLC3212ATZ	.88	23.44	11.25	17.69	38.63	28.50	3.06			
MC3612ATZ-ULLC3612ATZ	.69	23.94	9.93	18.81	38.25	22.50	(11)			

FRAME	A	DK(1)	E	G	H	HG	J	D	P	T	BA	K	STB	LG(B)	BK
SC3210ATZ-LLC3212ATZ	15.50	8.00	6.25	.75	.69	2.25	3.00	15.81	15.62	4.25	5.25	6.75	7.94	10.44	4.00
MC3612ATZ-ULLC3612ATZ	17.50	9.00	7.00	.88	.81	2.62	3.50	17.81	17.62	4.25	5.88	7.25	8.56	10.31	4.62

FRAME	METHOD OF DRIVE	C(7)		B		BS		2F		N		N-W		U(2)		V		R(3)		SQ		LGTH		FN		FN-FW		FW		FR(3)		SQ		LGTH		VT	
		STD.	LG(B)	STD.	LG(B)	STD.	LG(B)	STD.	LG(B)	STD.	LG(B)	STD.	LG(B)	STD.	LG(B)	STD.	LG(B)	STD.	LG(B)	STD.	LG(B)	STD.	LG(B)	STD.	LG(B)	STD.	LG(B)	STD.	LG(B)	STD.	LG(B)	STD.	LG(B)	STD.	LG(B)	STD.	LG(B)
SC3210ATZ- LSC3210ATZ	(9)	36.25	38.75	28.31	30.81	13.38	20.00	5.90	5.25	2.625	5.00	2.275	6.25	4.00	4.75	4.50	2.250	4.25	1.972	500	3.25	1115															
MC3212ATZ- LMC3212ATZ	(9)	39.25	41.75	31.31	33.81	16.38	25.00	5.90	5.25	2.625	5.00	2.275	6.25	4.00	4.75	4.50	2.250	4.25	1.972	500	3.25	1210															
LC3212ATZ- LLC3212ATZ	(9)	41.25	43.75	33.31	35.81	18.38	25.00	5.90	5.25	2.625	5.00	2.275	6.25	4.00	4.75	4.50	2.250	4.25	1.972	500	3.25	1290															
UMC3212ATZ- ULMC3212ATZ BELTED		39.75	42.25	31.31	33.81	16.38	25.00	6.00	5.75	2.875	5.50	2.450	.750	4.25	4.75	4.50	2.250	4.25	1.972	500	3.25	1180															
MC3612ATZ- LMC3612ATZ COUPLED		42.88	44.62	34.44	36.19	18.12	28.00	6.00	5.75	2.875	5.50	2.450	.750	4.25	6.00	5.75	2.875	5.50	2.450	750	4.25	1685															
UMC3612ATZ- ULMC3612ATZ BELTED		43.62	45.38	34.44	36.19	18.12	28.00	6.75	6.50	3.250	6.25	2.831	.750	5.00	6.00	5.75	2.875	5.50	2.450	750	4.25	1695															
LC3612ATZ- LLC3612ATZ COUPLED		46.62	48.38	38.19	39.94	21.88	28.00	6.00	5.75	2.875	5.50	2.450	.750	4.25	6.00	5.75	2.875	5.50	2.450	750	4.25	1850															
ULLC3612ATZ- ULLC3612ATZ BELTED		47.38	49.12	38.19	39.94	21.88	28.00	6.75	6.50	3.250	6.25	2.831	.750	5.00	6.00	5.75	2.875	5.50	2.450	750	4.25	1860															

- (1) "D" DIMENSION WILL NOT BE EXCEEDED, SHIMS UP TO .06 INCHES IN THICKNESS ARE USUALLY REQUIRED FOR COUPLED OR GEARED MACHINES. (10) FOR HORIZONTAL APPLICATIONS ONLY.
- (2) "P" AND "P" VARY FROM .000 TO .001. (11) "XAD" DIMENSION IS NOT APPLICABLE TO C360 FRAMES. (BLOWER MOTOR HAS CONDUIT BOX.)
- (3) "R" AND "FR" VARY FROM .000 TO .015. TERMINAL BOX CAN BE ROTATED FOR LEAD OUTLET AT TOP, SIDES OR BOTTOM.
- (4) TERMINAL BOX VARIES WITH H.P. FOR DIMENSIONS "AA", "AB", "AC", "AF", "X" AND "Y" REFER TO BOX D/S. (STD. 609979-1, 609979-2, 609979-3) BOX LOCATED ON TOP WHEN SPECIFIED.
- (5) OPPOSITE DRIVE END SHAFT SUPPLIED ONLY WHEN SPECIFIED. BLOWER ASSEMBLY CAN BE LOCATED AT POSITIONS 1, 2 OR 4.
- (6) MOTOR SHAFT TAPPED FOR SCREW IN STUB SHAFT. MOTOR WEIGHT MAY VARY 1 LB. FOR NON-STANDARD RATINGS AND/OR ACCESSORIES.
- (7) WHEN THE MOTOR APPLICATION DOES NOT REQUIRE THE USE OF DPG, DRIVE END, ADD .25 TO "C" DIM. FOR BRACKET COVER. IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
- (8) DIMENSION FOR FRAMES WITH PREFIX LSC, LMC, LLC, ULMC, OR ULLC.
- (9) METHOD OF DRIVE: COUPLED OR BELTED.

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

REV. DESC: LOADED TO BUS

REV. LTR: -

VERSION: 00

TDR: 000000577407

FILE: \RGG\00015\628

REVISED: 01:15:54 01/26/2011

BY: CONNAS

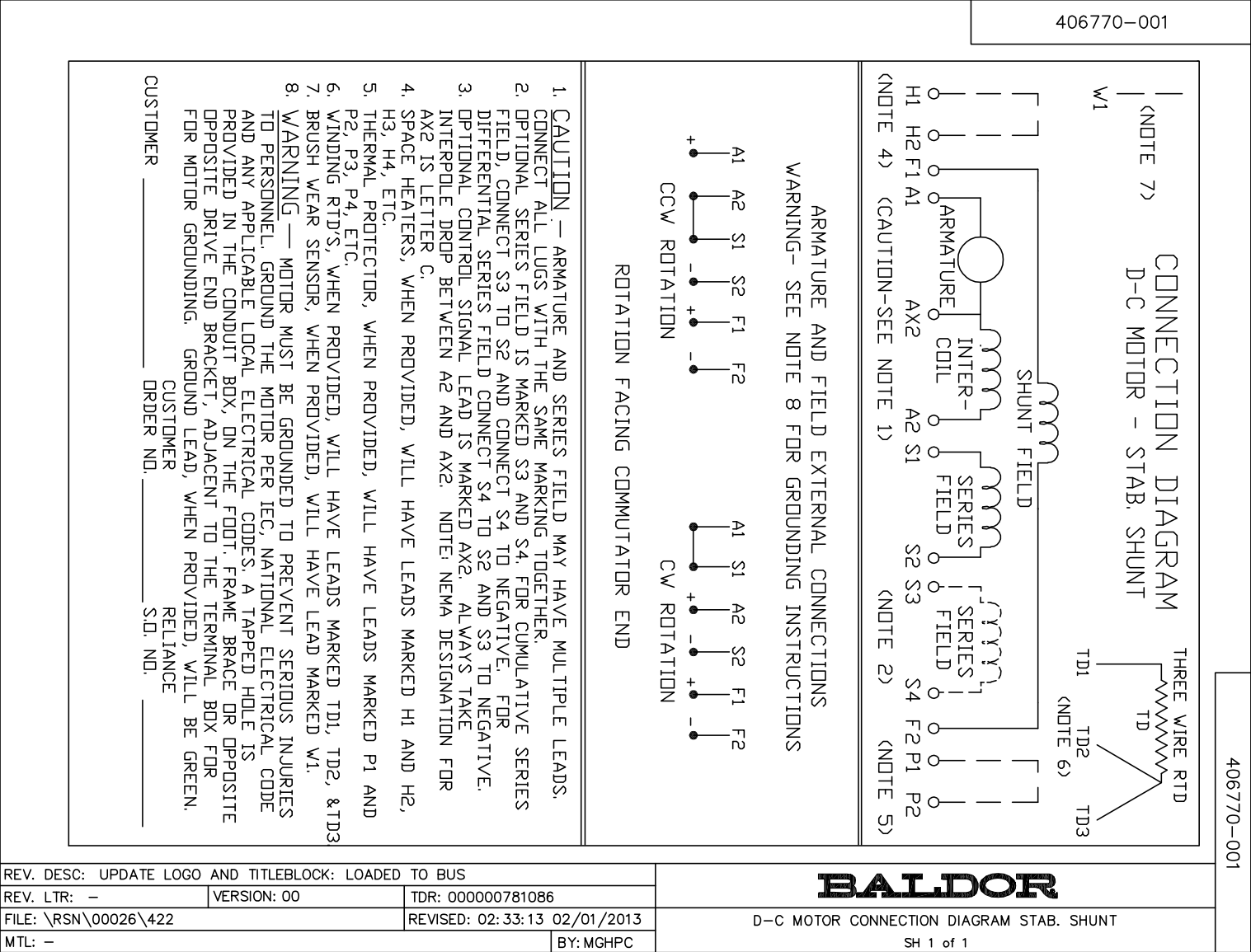
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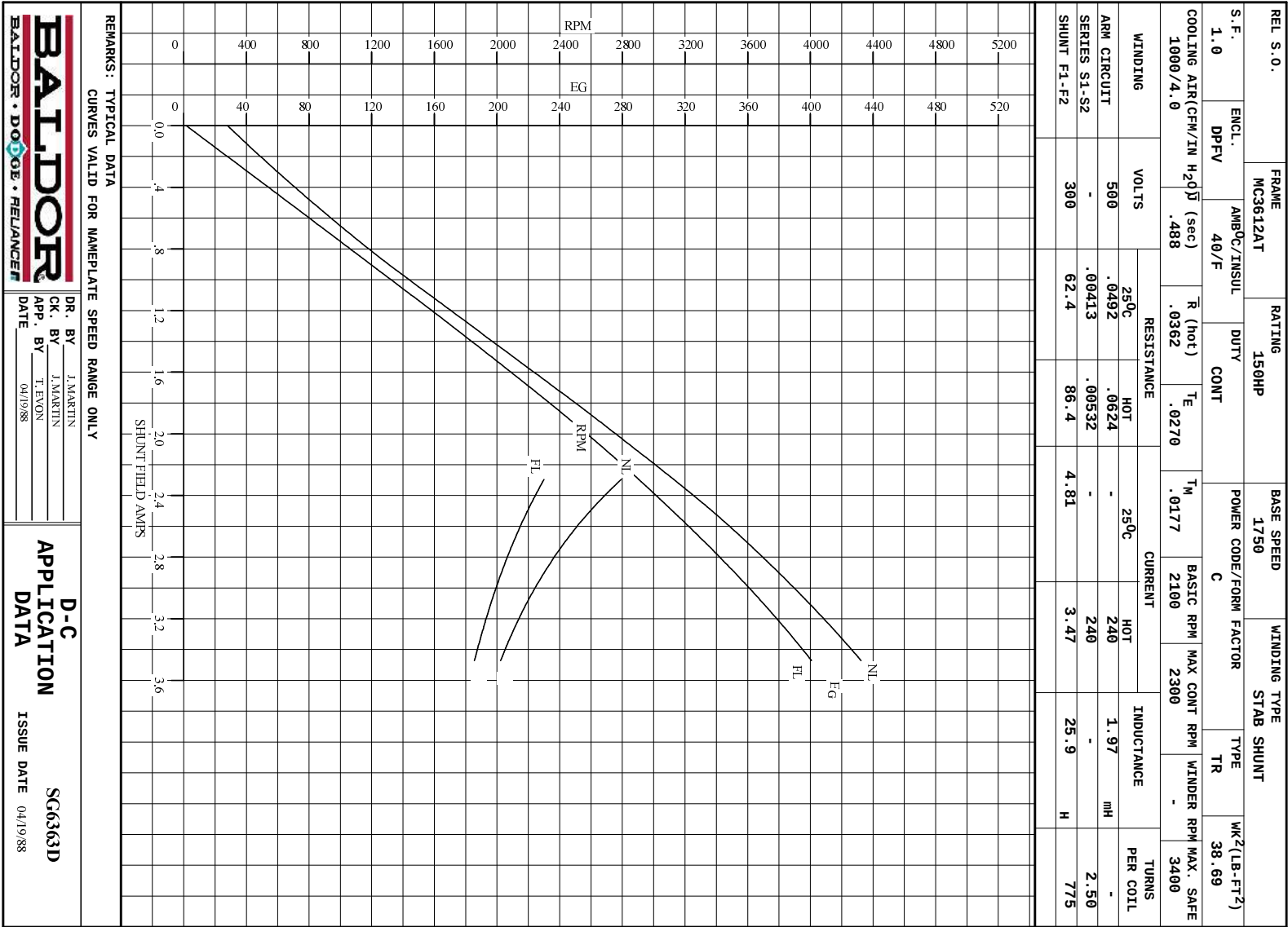
BALDOR

DIMENSION DRAWING, SC3210ATZ - ULLC3612ATZ, DPG, FOOT MTG.

SH 1 of 1

609972-049





REL S. O.	FRAME	RATING	RPM	ARM. VOLTS	ARM. AMPS
	MC3612AT	150HP	1750	500	240
WINDING TYPE					
	S. F.	ENCL.	AMB °C/INSUL	DUTY	FIELD VOLTS
STAB. 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	38.69	.0623	4.80	86.4
ARM. CIR. IND. (mh)					
	FIELD IND. (H)	COOLING AIR(CFM/IN H 20)	TURNS PER COIL SHUNT/SERIES	TEST DATE	
1.96	25.9	1000/4.0	775/2.5		-
LOAD PERFORMANCE					
LOAD	AMPERES	TORQUE IN LB.-FT.	OUTPUT IN HP	RPM	% EFFICIENCY
NO LOAD	5.0	0	0	2010	0
1/4	60	98.8	36.6	1947	83.2
2/4	120	209	75.5	1899	89.6
3/4	180	319	114	1868	91.2
4/4	240	427	151	1853	91.5
0.L.	360	633	222	1844	90.7
RPM VS. FIELD AMPS					
FIELD AMPS	RPM N.L.	RPM F.L.	Eg N.L. @ BASE SPEED	Eg F.L. @ BASE SPEED	
3.47	2009	1852	432	400	
3.17	2150	1937	407	376	
2.88	2311	2034	378	350	
2.59	2518	2152	347	321	
2.29	2792	2300	312	290	
REMARKS: TYPICAL DATA					
MAXIMUM SAFE SPEED = 3400 RPM					



DR. BY J. MARTIN
CK. BY J. MARTIN
APP. BY T. EVON
DATE 04/19/88

D-C MOTOR PERFORMANCE DATA
D66363D
ISSUE DATE 04/19/88

