

BALDOR® • RELIANCE

Product Information Packet

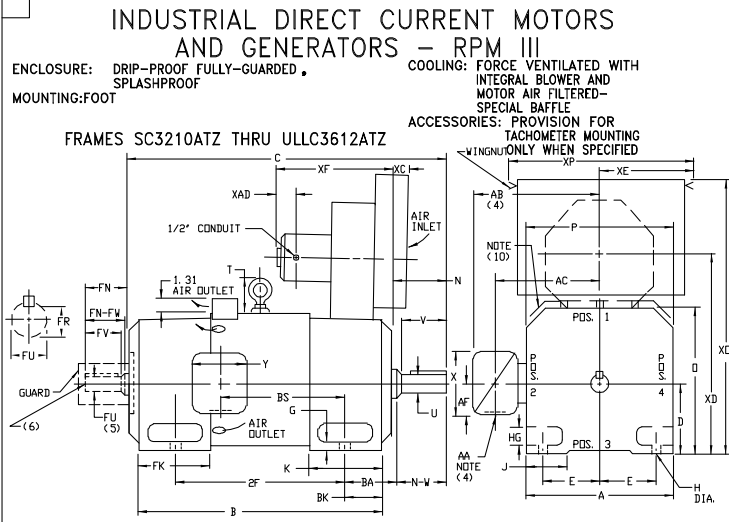
D50200RS-BV

200HP, 1750RPM, DC, 3612ATZ, DPG-FV,

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Part Detail			
Type:	DC	Prod. Type:	TR
Power Code:	C	Weight:	1905
Frame Group:	LC 3612ATZ	Mounting Pos.:	F2
HP:	200	Enclosure:	DPFV
RPM:	1750/2000	Wound:	STAB SHUNT
Service Factor:	1.0	Arm V:	500
Arm A:	321.00	Field V:	300
Field A:	5.41	Field A Hot:	3.91/3.29
Insulation Class:	F	Ambient:	40
Duty:	CONT	DE Bearing:	95BC02J30X
ODE Bearing:	80BC02J30X	Brushes:	419904-52AB
Brush Qty.:			

609972-049



DIMENSIONS ARE IN INCHES

FRAME	XC	XD	XE	XF	XG	XH	XI	XP	XAD
SC3210ATZ-LLC3212ATZ	.88	23.44	11.25	17.69	38.63	22.50	3.06		
MC3612ATZ-ULLC3612ATZ	1.69	23.94	9.93	18.81	38.25	22.50	3.06		

FRAME	A	DK1	E	G	H	HG	J	D	P	T	BA	K	STB	LG(B)	BK
SC3210ATZ-LC3212ATZ	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	8.36	10.31	4.62

FRAME	METHOD OF DRIVE	STD. LG(B)	STD. LG(D)	BS	RF	N	N-W	UK(2)	V	RC(3)	SO	LGTH	FN	FN-FW	FK(2)	FV	FR(3)	SO	LGTH	WT. LBS.		
SC3210ATZ-LC3212ATZ	(9)	36.25	38.75	28.31	30.81	13.38	20.00	5.50	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-LC3212ATZ	(9)	39.25	41.75	31.31	33.81	16.38	25.00	5.50	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-LC3212ATZ	(9)	41.25	43.75	33.31	35.81	18.38	25.00	5.50	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-UMC3212ATZ	BELTED	39.75	42.25	31.31	33.81	16.38	25.00	6.00	5.75	2.875	5.50	2.450	7.50	4.25	4.75	4.50	2.250	4.25	1.972	500	3.25	1180
MC3612ATZ-LMC3612ATZ	BELTED	42.88	44.62	34.44	36.19	18.12	28.00	6.00	5.75	2.875	5.50	2.450	7.50	4.25	6.00	5.75	2.875	5.50	2.450	750	4.25	1685
UMC3612ATZ-UMC3612ATZ	BELTED	43.62	45.38	34.44	36.19	18.12	28.00	6.75	6.50	3.250	6.25	2.831	7.50	5.00	6.00	5.75	2.875	5.50	2.450	750	4.25	1695
LC3612ATZ-LC3612ATZ	BELTED	46.62	48.38	38.19	39.94	21.88	28.00	6.00	5.75	2.875	5.50	2.450	7.50	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	7.50	5.00	6.00	5.75	2.875	5.50	2.450	750	4.25	1860

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

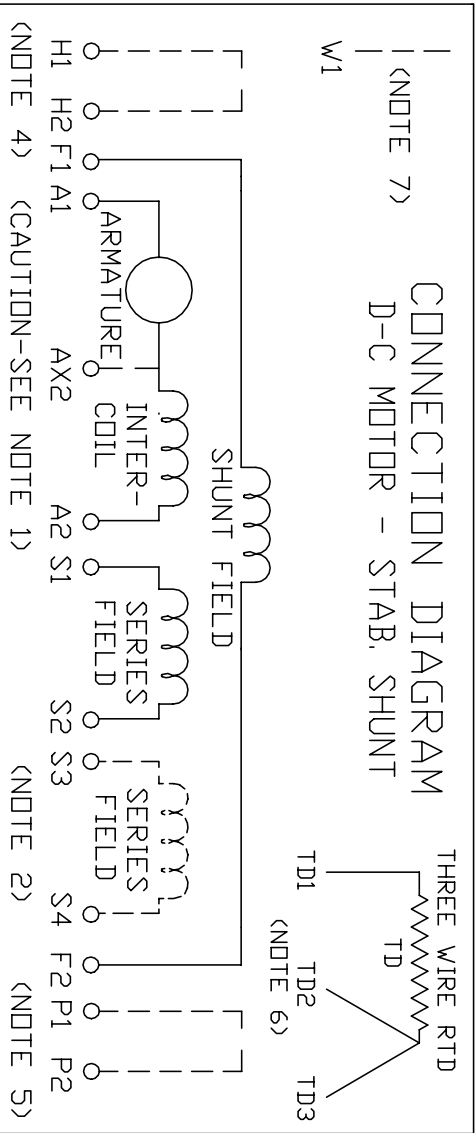
REV. DESC: LOADED TO BUS	VERSION: 00	TDR: 000000577407
REV. LTR: -	REVISED: 01:15:54 01/26/2011	BY: CONNAS
FILE: \RGG\00015\62B		
MTL: -		

BALDOR

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

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609972-049



ARMATURE AND FIELD EXTERNAL CONNECTIONS
WARNING- SEE NOTE 8 FOR GROUNDING INSTRUCTIONS



ROTATION FACING COMMUTATOR END

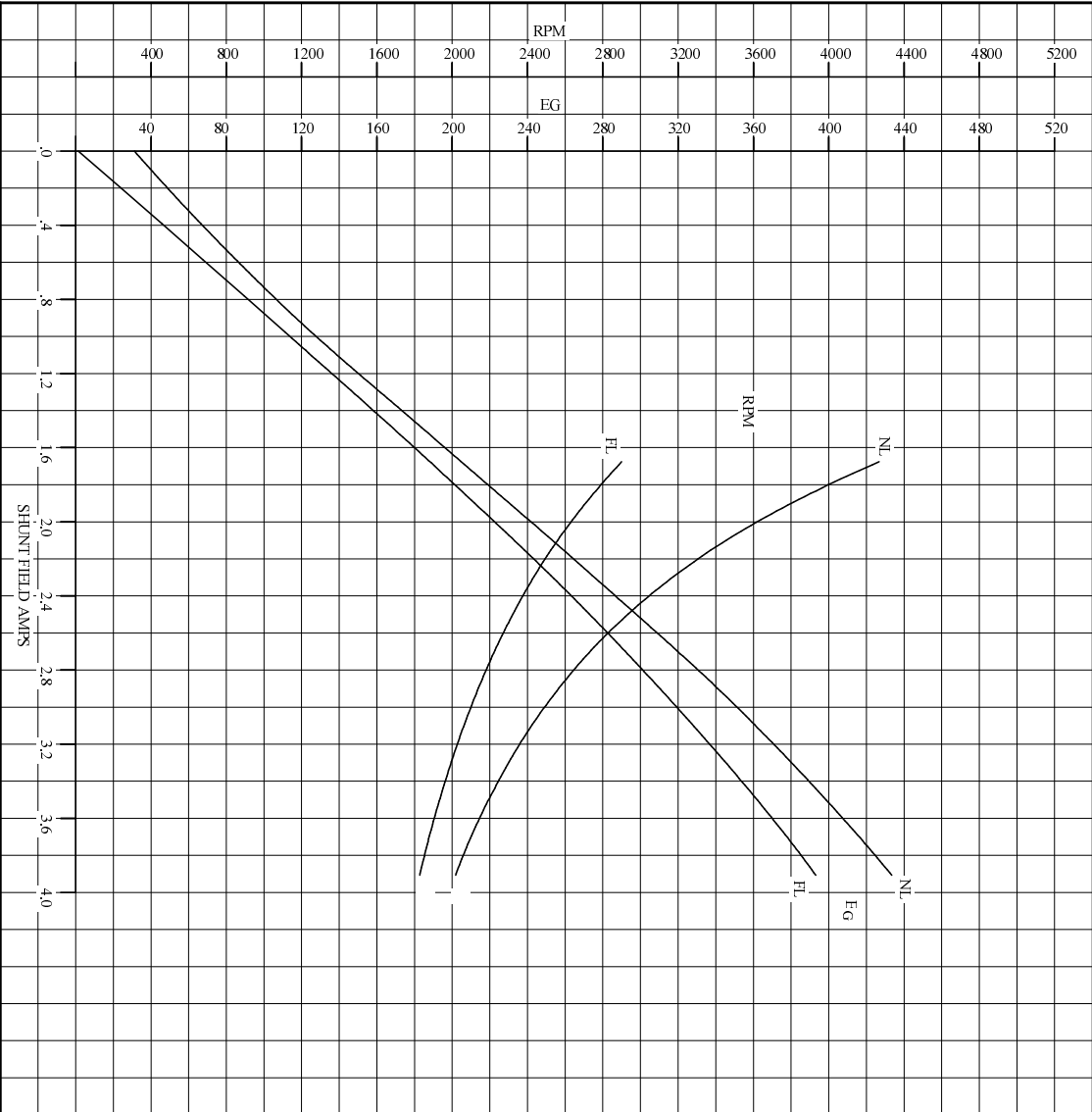
1. **CAUTION** — ARMATURE AND SERIES FIELD MAY HAVE MULTIPLE LEADS. CONNECT ALL LUGS WITH THE SAME MARKING TOGETHER.
2. OPTIONAL SERIES FIELD IS MARKED S3 AND S4. FOR CUMULATIVE SERIES FIELD, CONNECT S3 TO S2 AND CONNECT S4 TO NEGATIVE. FOR DIFFERENTIAL SERIES FIELD CONNECT S4 TO S2 AND S3 TO NEGATIVE.
3. OPTIONAL CONTROL SIGNAL LEAD IS MARKED AX2. ALWAYS TAKE INTERPOLE DROP BETWEEN A2 AND AX2. NOTE: NEMA DESIGNATION FOR AX2 IS LETTER C.
4. SPACE HEATERS, WHEN PROVIDED, WILL HAVE LEADS MARKED H1 AND H2, H3, H4, ETC.
5. THERMAL PROTECTOR, WHEN PROVIDED, WILL HAVE LEADS MARKED P1 AND P2, P3, P4, ETC.
6. WINDING RTDS, WHEN PROVIDED, WILL HAVE LEADS MARKED TD1, TD2, & TD3
7. BRUSH WEAR SENSOR, WHEN PROVIDED, WILL HAVE LEAD MARKED W1.
8. **WARNING** — MOTOR MUST BE GROUNDED TO PREVENT SERIOUS INJURIES TO PERSONNEL. GROUND THE MOTOR PER IEC, NATIONAL ELECTRICAL CODE AND ANY APPLICABLE LOCAL ELECTRICAL CODES. A TAPPED HOLE IS PROVIDED IN THE CONDUIT BOX, ON THE FOOT. FRAME BRACE OR OPPOSITE OPPOSITE DRIVE END BRACKET, ADJACENT TO THE TERMINAL BOX FOR FOR MOTOR GROUNDING. GROUND LEAD, WHEN PROVIDED, WILL BE GREEN.

CUSTOMER _____ RELIANCE
ORDER NO. _____ S.D. NO. _____

<p>RELIANCE ELECTRIC</p> <p>CLEVELAND, OHIO 44117 U.S.A.</p>	<p>Rev. by <u>N.L. EVANS</u> Ck. by <u>N. JESCHKE</u> App. by <u>E. L. HINER</u> DATE <u>5-5-69</u></p>
<p>CONNECTION DIAGRAM</p> <p>406770-1</p> <p>ORIGINAL AT RCC</p>	

C/R 290048, 354478, 354480

REF. S.O.	FRAME LC3612ATZ	RATING 200HP	BASE SPEED 1750	WINDING TYPE STAB SHUNT
S.F. 1.0	ENCL. DPEV	AMB°C/INSUL 40/F	DUTY CONT	POWER CODE/FORM FACTOR C
COOLING AIR (CFM/IN H ₂ O) 1000/4.0	̄ (sec) .441	̄ (hoc) .0443	̄ _{25°C} .0195	BASIC RPM 2500
				MAX CONT RPM 2900
WINDING	VOLTS	RESISTANCE		CURRENT
		25°C	HOT	INDUCTANCE
ARM CIRCUIT	500	.0438	.0580	HOT 321
SERIES S1-S2	-	.00312	.00432	321
SHUNT F1-F2	300	55.4	76.8	23.1
			5.41	3.91
				H
				PER COIL
				TURNS 2.00
				MAX. SAFE 3400
				46.61
				TR
				WK ² (LB-FT ²)



REMARKS: TYPICAL DATA
CURVES VALID FOR NAMEPLATE SPEED RANGE ONLY

BALDOR • DO • RELIANCE	DR. BY J. MARTIN	D-C	APPLICATION	SC7619A
	APP. BY T. EVON			
DATE 2/29/91	DATA			ISSUE DATE 04-22-1999

REL S.O.	FRAME	RATING	RPM	ARM. VOLTS	ARM. AMPS
	LC3612ATZ	200HP	1750	500	321
WINDING TYPE		S.F.	ENCL.	AMB °C/INSUL	DUTY
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	46.61	.0579	5.41	76.7

ARM. CIR. IND. (mh)	FIELD IND. (H)	COOLING AIR (CFM/IN H 20)	TURNS PER COIL SHUNT/SERIES	TEST DATE
1.72	23.0	1000/4.0	650/2	-

LOAD PERFORMANCE

LOAD	AMPERES	TORQUE IN LB.-FT.	OUTPUT IN HP	RPM	% EFFICIENCY
NO LOAD	5.6	0	0	2002	0
1/4	80	135	49.7	1929	85.9
2/4	161	284	101	1873	90.8
3/4	241	433	152	1841	91.7
4/4	321	577	201	1826	91.6
O.L.	482	850	295	1822	90.2


RPM VS. FIELD AMPS

FIELD AMPS	RPM N.L.L.	RPM F.L.L.	Eg N.L.L. @ BASE SPEED	Eg F.L.L. @ BASE SPEED
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3.90	2002	1826	433	393
3.34	2272	1978	385	349
2.79	2653	2183	329	300
2.23	3259	2472	268	246
1.67	4267	2900	204	188

MAXIMUM SAFE SPEED = 3400 RPM

REMARKS: TYPICAL DATA

	DR. BY J. MARTIN	D-C MOTOR PERFORMANCE DATA DG7619A ISSUE DATE 04-22-1999
	CK. BY R. BRACKNER	
	APP. BY T. EVON DATE 2/25/91	

