



Customer information packet

D5130R-BV

30HP, 1150RPM, DC, 2115ATZ, DPG-FV,

Specifications

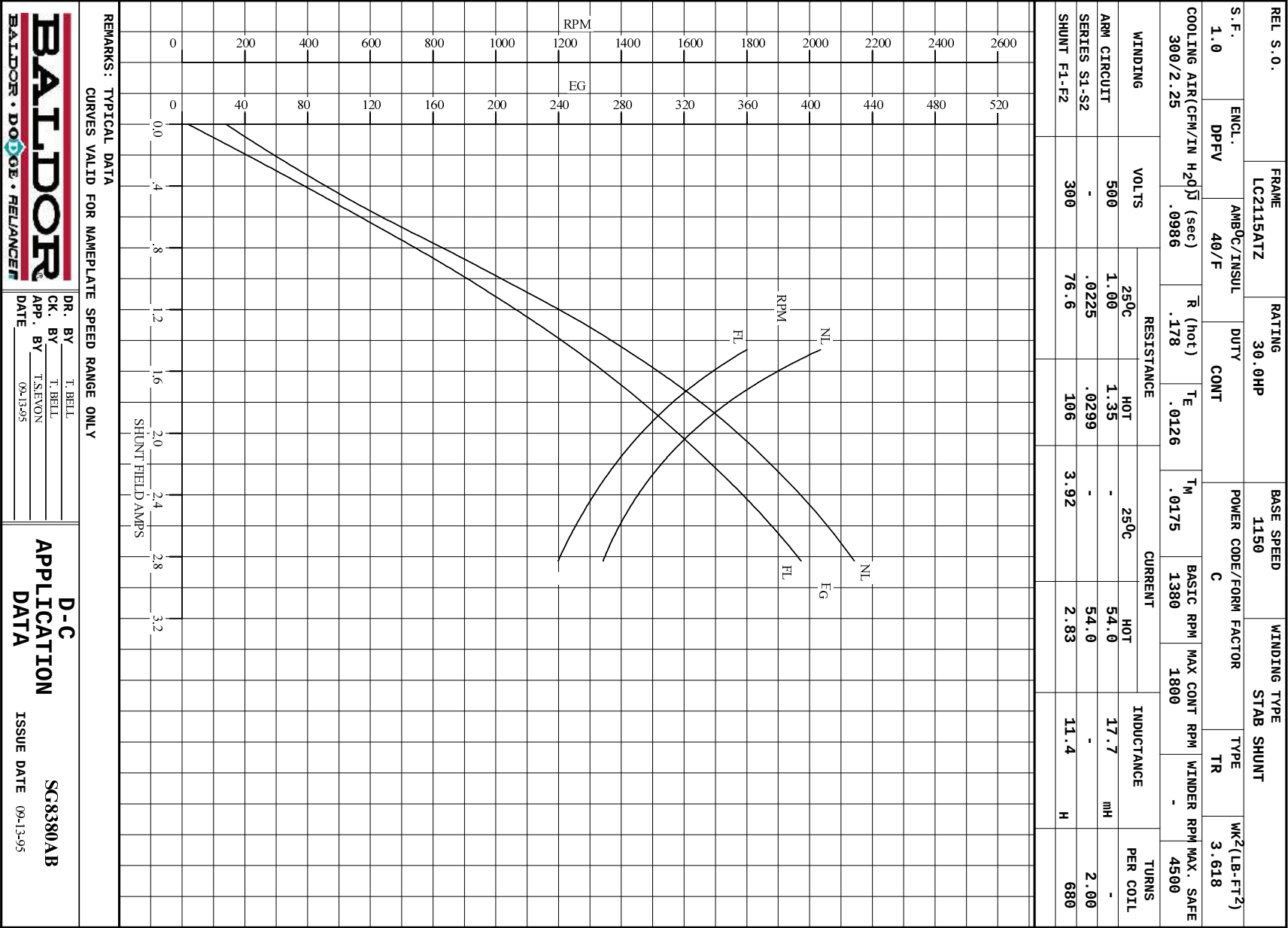
Enclosure	DP
Frame	LC2115ATZ
Frame Material	Steel
Output Power	30.000 HP
Agency Approvals	CCSA US
Ambient Temperature	40 °C
Bearing Grease Type	Polyrex EM (-20F +300F)
Drip Cover	No Drip Cover
Feedback Device	NO FEEDBACK
Field Winding Type	STR. SHUNT
Frame Prefix	LC
Heater Indicator	No Heater
Lifting Lugs	Standard Lifting Lugs
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	35.25 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Slinger Indicator	No Slinger

Part detail

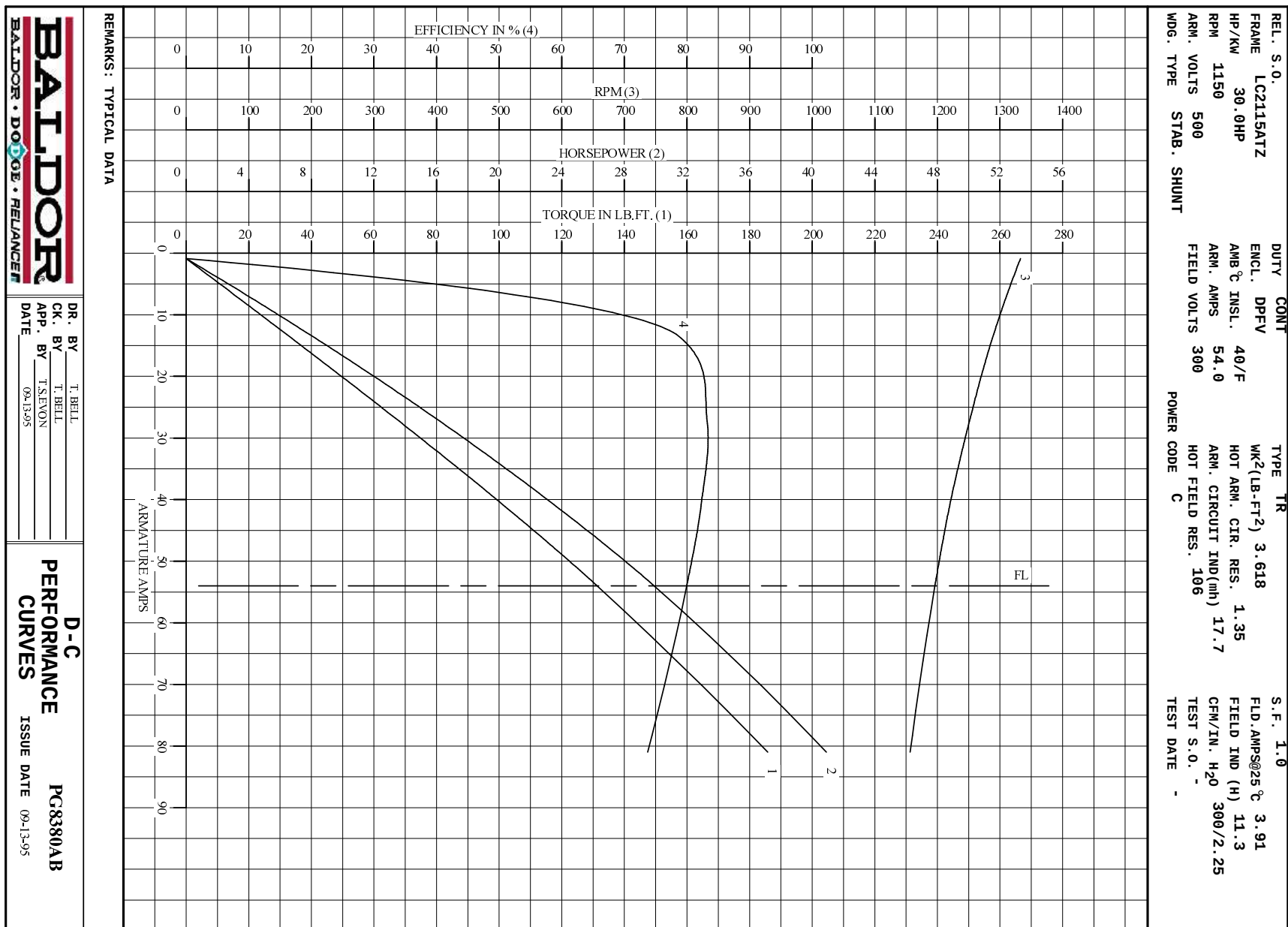
Revision	-
Type	DC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	G8380A B
Layout	616002-001
Eff. date	04-13-2015
CD Diagram	406770-006
Poles	00
Leads	
Proprietary	False
Created date	04-09-2015

Nameplate

000613006HP									
CAT.NO.	D5130R-BV	SPEC NO.		T21T1378					
FR	LC 2115ATZ	HP	30		DUTY		CONT		
ENCL.	DP	RPM	1150/ 1800		S.F.		1.0		
ENCL MOD	FORCE VENT	VOLTS	500		INSUL		F		
MAX SAFE SPEED	4500	AMPS	54.00		AMB.		40		
FIELD DATA		SER.NO.							
WINDING	STR. SHUNT	POWER CODE		C					
VOLTS	300	D.E. BRG.		50BC03J30X					
MAX AMPS @ 25 C	3.95	O.D.E. BRG.		45BC02J30X					
HOT AMPS	2.97/ 1.63	MIN. AMB.		0		TYPE		TR	
BRUSH:419904051AB									



REL S. O.	FRAME	RATING	RPM	ARM. VOLTS	ARM. AMPS
	LC2115A1TZ	30.0HP	1150	500	54.0
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
C	TR	3.618		1.35	3.91
					106
ARM. CIR. IND. (mh)	FIELD IND. (H)	COOLING AIR(CFM/IN H 20)			TURNS PER COIL SHUNT/SERIES
17.7	11.3	300/2.25			680/2
LOAD PERFORMANCE					
LOAD	AMPERES	TORQUE IN LB.-FT.	OUTPUT IN HP	RPM	% EFFICIENCY
NO LOAD	.89	0	0	1333	0
1/4	14	32.9	8.07	1289	78.7
2/4	27	67.4	16.1	1252	83.2
3/4	41	100	23.3	1221	82.3
4/4	54	131	29.9	1196	80.0
0.L.	81	186	40.9	1156	73.7
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	
2.82	1332	1196	428	394	
2.48	1425	1286	401	365	
2.14	1552	1402	369	331	
1.80	1741	1563	330	293	
1.45	2034	1800	282	250	
REMARKS: TYPICAL DATA					
MAXIMUM SAFE SPEED = 4500 RPM					
		DR. BY T. BELL CK. BY T. BELL APP. BY T.S.EYON DATE 09-13-95		D-C MOTOR D68380AB PERFORMANCE DATA ISSUE DATE 09-13-95	



INDUSTRIAL DIRECT CURRENT MOTORS AND GENERATORS - RPM III

ENCLOSURE: DRIP-PROOF FULLY-GUARDED,
SPLASHPROOF

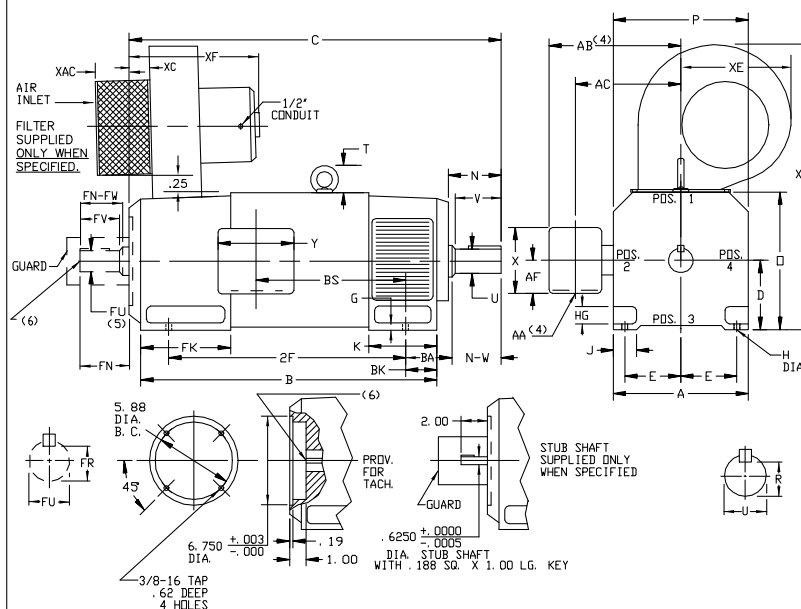
COOLING: FORCE VENTILATED
WITH INTEGRAL
BLOWER AND MOTOR

MOUNTING:FOOT

METHOD OF DRIVE:COUPLED OR BELTED

ACCESSORIES: PROVISION FOR
TACHOMETER MOUNTING
ONLY WHEN SPECIFIED

FRAMES SC2113ATZ THRU LC2115ATZ



DIMENSIONS ARE IN INCHES

FRAME	XAC	XC	XE	XF	XC
SC2113ATZ-LC2115ATZ	7.75	2.25	10.00	16.00	22.75

FRAME	A	D(1)	E	G	H	HG	J	O	P	T	BA	K	FK	BK
SC2113ATZ-LC2115ATZ	10.25	5.25	4.25	.44	.44	1.38	1.75	10.44	10.31	2.08	3.50	5.19	6.81	2.3

FRAME	C(7)	B	BS	2F	DRIVE END SHAFT AND KEY						OPPOSITE DRIVE END SHAFT AND KEY(S)						WT.		
					N	N-W	U(2)	V	R(3)	SQ.	LGTH.	FN	FN-FW	FU(2)	FV	FR(3)		SQ.	LGTH.
SC2113A7Z	28.38	22.50	11.38	18.00	4.00	3.75	1.875	3.50	1.991	.500	2.50	3.50	3.25	1.625	3.00	1.416	.375	2.25	3.34
MC2113A7Z	29.62	23.75	12.62	18.00	4.00	3.75	1.875	3.50	1.991	.500	2.50	3.50	3.25	1.625	3.00	1.416	.375	2.25	3.37
LC2113A7Z	31.25	25.38	14.25	18.00	4.00	3.75	1.875	3.50	1.991	.500	2.50	3.50	3.25	1.625	3.00	1.416	.375	2.25	3.40
SC2115A7Z	32.50	26.62	15.50	22.00	4.00	3.75	1.875	3.50	1.991	.500	2.50	3.50	3.25	1.625	3.00	1.416	.375	2.25	3.43
LC2115A7Z	35.25	28.38	18.25	22.00	4.00	3.75	1.875	3.50	1.991	.500	2.50	3.50	3.25	1.625	3.00	1.416	.375	2.25	3.48

- (1) "D" DIMENSION WILL NOT BE EXCEEDED. SHIMS UP TO .03 INCHES IN THICKNESS ARE USUALLY REQUIRED FOR COUPLED OR GEARED MACHINES.
- (2) "U" AND "F" VARIES-----, 000 - .001
- (3) "X" AND "F" VARIES-----, 000 - .001
- (4) TERMINAL BOX VARIES WITH H.P. FOR DIMENSIONS "AA", "AB", "AC", "AF", "X" AND "Y". REFER TO BOX DVS. (STD. 609959-1, "X"/P. 609959-2, MILL 609959-3)
- (5) TERMINAL DRIVE END SHUNT SUPPORT IS USUALLY SPECIFIED.
- (6) MOTOR SHALT TAPPED FOR SCREW-IN STUB SHAFT.
- (7) WHEN THE MOTOR APPLICATION DOES NOT REQUIRE THE USE OF TERMINAL DRIVE END, AND 25 TO 30 INCHES ONLY ARE REQUIRED.
- (8) TERMINAL BOX CAN BE ROTATED FOR LEAD OUTLET AT TOP, SIDES OR BOTTOM.
- (9) TERMINAL BOX LOCATED ON OPPOSITE SIDE WHEN F-2, W-1, W-4, W-5, W-7, W-8, W-9, 1-MOUNTING SPECIFIED. BOX LOCATIONS 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773,

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

REV. LTR: -	VERSION: 00	TDR: 000000578087
FILE: \RGG\00015\944	REVISED: 08:22:49 01/28/2011	BY: CONNAS
MTL: -		

BALDOR

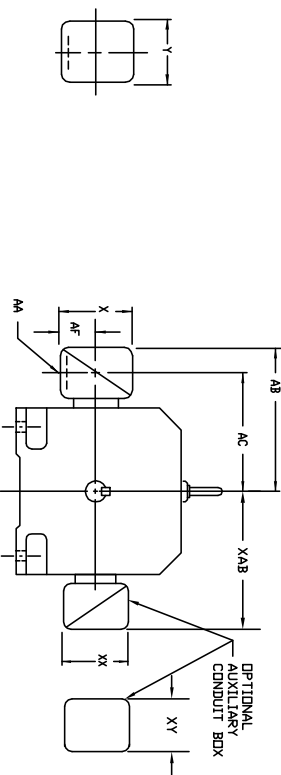
DIMENSION DRAWING,SC2113ATZ – LC2115ATZ,DPP,FOOT MTG

SH 1 of 1

INDUSTRIAL DIRECT CURRENT MOTORS
AND GENERATORS - RPM III

TERMINAL BOX DIMENSIONS

STANDARD SIZE AND ONE SIZE LARGER
FRAMES C2113A17 THRU C2815A17



DIMENSIONS ARE IN INCHES

FRAME SIZE	MAX. AMS	STANDARD SIZE							STEEL TERMINAL BOX DIMENSIONS								
		AK(1)	AB	AC	AF	X	Y	PART NUMBER	AK(1)	AB	AC	AF	X	Y	PART NUMBER		
C21.3A1Z	9/4 & 1"	8.97	7.17	1.94	4.38	5.00	705028-1-R	1-1/4 & -1-1/2	11.03	8.43	2.50	5.50	6.12	705039-1-R			
C21.3A1Z	9/4 & 1-1/4 & -1-1/2	10.03	8.03	2.02	5.50	6.12	705029-1-R	2" & -2-1/2	11.16	8.31	3.19	7.00	7.62	705030-1-R			
C21.3A1Z (2)	208	2" & 2-1"	11.16	8.53	3.19	7.00	705030-1-R	2" & -2-1/2	11.16	8.43	3.19	7.00	7.62	705030-1-R			
C23.1A1Z	40/3 & 4 & 1"	10.03	8.53	1.94	4.38	5.00	705028-1-R	1-1/4 & -1-1/2	11.09	9.09	2.50	5.50	6.12	705030-1-R			
C23.1A1Z (2)	96	1-1/4 & -1-1/2	11.09	9.09	2.50	5.50	6.12	705030-1-R	2" & -2-1/2	12.82	9.47	3.19	7.00	7.62	705030-1-R		
C23.1A1Z (2)	208	2" & 2-1/2	12.82	10.57	3.19	7.00	7.62	705030-1-R	2" & -2-1/2	12.82	9.47	3.19	7.00	7.62	705030-1-R		
C28.1A1Z	128	2"	14.03	10.57	4.23	8.44	7.62	7484-R	3"	14.47	11.22	4.23	8.44	7.62	7484-R		
C28.1A1Z	185	3"	14.47	11.82	4.23	8.44	7.62	7484-R	4"	15.91	11.84	5.00	9.09	8.44	7.62	7484-R	
C28.1A1Z	269	4"	15.91	11.84	5.38	10.56	9.09	703038-3-R	5" (4)	18.72	13.47	7.00	12.75	11.00	706458-1-C		

CAST IRON TERNAL BOX DIMENSIONS																		
FRAME SIZE	MAX. AMPS	AK-33	STANDARD SIZE						PART		DNE SIZE LARGER						PART	
			AB	AC	AF	X	Y	NUMBER	AK-33	AB	AC	AF	X	Y	NUMBER			
C2113A1Z	18	3/4	10.03	8.03	8.25	5.00	5.00	5.75	705028-2-S	1"	10.03	8.03	8.25	5.00	5.00	5.75	705028-2-T	
C2113A1Z	40	1"	10.03	8.03	8.25	5.00	5.00	5.75	705028-2-T	1-1/2	10.07	8.03	8.30	6.00	7.00	7.05	705029-2-T	
C2113A1Z	96	1-1/2	10.97	8.53	9.00	6.00	7.00	7.00	705029-2-R	2"	10.97	8.53	9.33	6.00	7.00	7.05	705029-2-S	
C2512A1Z	18	3/4	11.09	9.09	8.25	5.00	5.00	5.75	705028-2-S	1"	11.09	9.09	8.25	5.00	5.00	5.75	705028-2-T	
C2512A1Z	40	1"	11.09	9.09	8.25	5.00	5.00	5.75	705028-2-T	1-1/2	12.03	9.59	9.30	6.00	7.00	7.05	705029-2-R	
C2512A1Z	96	1-1/2	12.03	9.59	9.33	6.00	7.00	7.00	705029-2-R	2"	12.03	9.59	9.33	6.00	7.00	7.05	705029-2-S	
C2515A1Z	18	3/4	12.03	9.59	9.33	6.00	7.00	7.00	705029-2-S	1-1/2	13.47	9.57	9.32	7.88	9.25	7.05	705030-2-T	
C2515A1Z	40	1"	12.78	10.34	9.33	6.00	6.00	7.00	705030-2-T	1	14.72	10.72	9.32	7.88	9.25	7.05	705030-2-R	
C2515A1Z	96	2"	14.47	10.72	9.32	7.88	9.25	7.05	705030-2-R	3"	15.38	11.59	9.42	9.25	7.05	7.05	705030-2-S	
C2813A1Z	185	3"	15.47	10.72	9.32	7.88	9.25	7.05	705030-2-S	5"	15.47	11.59	9.42	9.25	7.05	7.05	705030-2-T	
C2813A1Z	269	4"	15.78	11.71	9.42	9.25	9.50	10.50	767008-2-T	5" (4)	18.59	12.94	10.10	12.75	15.00	7.68	707008-2-T	

CONDUIT BOX DIMENSIONS WITH TERMINAL BOARDS (IEC TYPE BOX)									
STANDARD SIZE									
FRAME SIZE	AMPS	AB	AC	AF	X	AA	Y	PART NUMBER	PART NUMBER
C210	100	10.71	8.98	2.72	7.48	--	7.48	706310-56-A	706310-225-R
	200	11.26	9.25	3.35	8.82	--	8.82	706310-56-B	706310-226-R
	100	11.30	9.57	2.72	7.48	--	7.48	706310-56-A	706310-225-R
	200	11.85	9.84	3.35	8.82	--	8.82	706310-56-B	706310-226-R
	400	17.48	12.75	6.20	14.39	--	14.39	706310-63-B & 706310-63G	706310-63-B & 706310-63G
C250	800	17.48	12.75	6.20	14.39	--	14.39	706310-63-B & 706310-63G	706310-63-B & 706310-63G
	200	12.60	10.59	3.76	8.82	--	8.82	706310-56-B	706310-226-R
	800	18.27	13.54	6.20	14.39	--	14.39	706310-63-B & 706310-63G	706310-63-B & 706310-63G
	800	18.27	13.54	6.20	14.39	--	14.39	706310-63-B & 706310-63G	706310-63-B & 706310-63G
	800	18.27	13.54	6.20	14.39	--	14.39	706310-63-B & 706310-63G	706310-63-B & 706310-63G
C280	1600	18.27	13.54	7.68	15.35	--	15.35	706310-63-C	706310-63-C

POTENTIAL AUXILIARY CONDUIT BOX DIMENSIONS (MAXIMUM)							
FRAME SIZE	XAD	XY	PART NUMBER	FRAME SIZE	XAD	XY	PART NUMBER
C210	7.38	4.25	602007-26-A	C210	10.88	8.00	706310-3-8
C230	8.44	4.25	602007-26-A	C230	11.88	8.00	706310-3-8
C280	9.12	4.25	602007-26-A	C280	12.62	8.00	706310-3-8

- (1) STEEL CONDUIT.
(2) STEEL TERMINAL BOX FOR C2113A17Z AND C2512A1Z.
(3) FRAMES PROVIDED WITH DOUBLE KNUCKOUT.
(4) "AM" PIPE TAP.
(5) TERMINAL BOX 7680/0-5 AND 76870-9R EXTENSIONS BELOW MOTOR FEET.
(6) TERMINAL BOX CAN BE ROTATED FOR LEAD OUTLET AT TOP, SIDES OR BOTTOM.
(7) TERMINAL BOX LOCATED ON OPPOSITE SIDE WHEN F-2, W-1, F-4, W-5, W-7,
OR C-1 MOUNTING IS SPECIFIED. BOX LOCATED ON TOP WHEN SPECIFIED.
(8) W-7 TERMINAL BOX DIMENSIONS SEE 609593-2.
(9) FOR MILL TYPE TERMINAL BOX DIMENSIONS SEE 609593-3.

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

REV. DESC: ADD 706310-63G C/BOX TO C250 AND C280 FRAMES		
REV. LTR: A	VERSION: 01	TDR: 000000816512
FILE: \RGG\00021\153		REVISED: 03:09:09 09/06/2013
MTL: -		BY: RGGWT

BALDOR

DIMENSION SHEET
SH 1 of 1

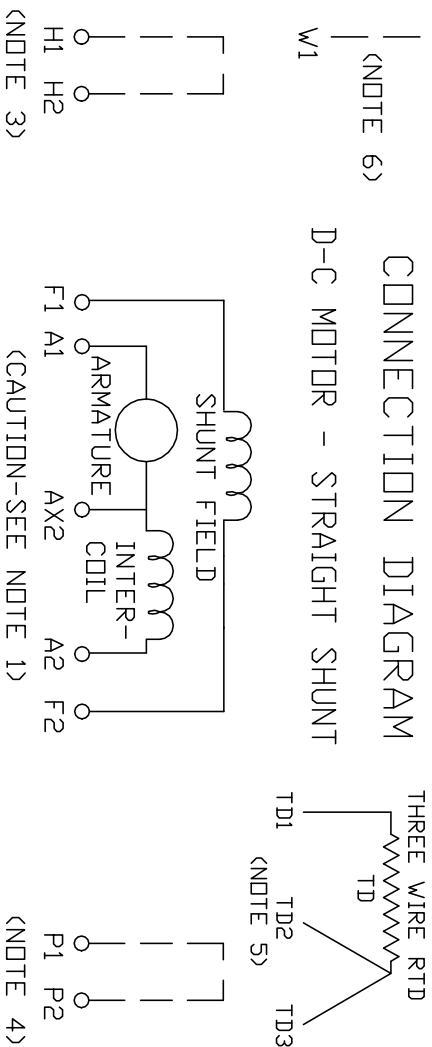
406770-006

CONNECTION DIAGRAM

406770-006

— (NOTE 6)
W1

D-C MOTOR - STRAIGHT SHUNT



ARMATURE AND FIELD EXTERNAL CONNECTIONS

WARNING- SEE NOTE 7 FOR GROUNDING INSTRUCTIONS



ROTATION FACING COMMUTATOR END

1. CAUTION — ARMATURE MAY HAVE MULTIPLE LEADS. CONNECT ALL LUGS WITH THE SAME MARKING TOGETHER.
2. OPTIONAL CONTROL SIGNAL LEAD IS MARKED AX2. ALWAYS TAKE INTERPOLE DROP BETWEEN A2 AND AX2. NOTE: NEMA DESIGNATION FOR AX2 IS LETTER C.
3. SPACE HEATERS, WHEN PROVIDED, WILL HAVE LEADS MARKED H1 AND H2, H3, H4, ETC.
4. THERMAL PROTECTOR, WHEN PROVIDED, WILL HAVE LEADS MARKED P1 AND P2, P3, P4, ETC.
5. WINDING RTD'S, WHEN PROVIDED, WILL HAVE LEADS MARKED TD1, TD2, & TD3.
6. BRUSH WEAR SENSOR, WHEN PROVIDED, WILL HAVE LEAD MARKED W1.
7. 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 FDR MOTOR GROUNDING. GROUND LEAD, WHEN PROVIDED, WILL BE GREEN.

CUSTOMER _____

CUSTOMER ORDER NO. _____

RELIANCE S.D. NO. _____

REV. DESC: UPDATE LOGO AND TITLEBLOCK: LOADED TO BUS		
REV. LTR: -	VERSION: 00	TDR: 000000781086
FILE: \RSN\00026\515		REVISED: 02: 41: 08 02/01/2013
MTL: -		BY: MGHPC

BALDOR

D-C MOTOR CONNECTION DIAGRAM, STRAIGHT SHUNT

SH 1 of 1