



Customer information packet

D5025R-BV

25HP, 1750RPM, DC, 2113ATZ, DPG-FV,

Specifications

Enclosure	DP
Frame	MC2113ATZ
Frame Material	Steel
Output Power	25.000 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	MC
Heater Indicator	No Heater
Lifting Lugs	Standard Lifting Lugs
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	29.62 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.	G6005E 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.	D5025R-BV	SPEC NO.		T21T1351					
FR	MC 2113ATZ	HP	25		DUTY		CONT		
ENCL.	DP	RPM	1750/ 2300		S.F.		1.0		
ENCL MOD	FORCE VENT	VOLTS		500		INSUL		F	
MAX SAFE SPEED	4500	AMPS	46.00		AMB.		40		
FIELD DATA		SER.NO.							
WINDING	STR SHUNT		POWER CODE		C				
VOLTS	300		D.E. BRG.		50BC03J30X				
MAX AMPS @ 25 C	3.32		O.D.E. BRG.		45BC02J30X				
HOT AMPS	2.40/ 1.57		MIN. AMB.		0		TYPE		TR
BRUSH:419904051AB									

INDUSTRIAL DIRECT CURRENT MOTORS AND GENERATORS - RPM III

ENCLOSURE: DRIP-PROOF FULLY-GUARDED,
SPLASHPROOF

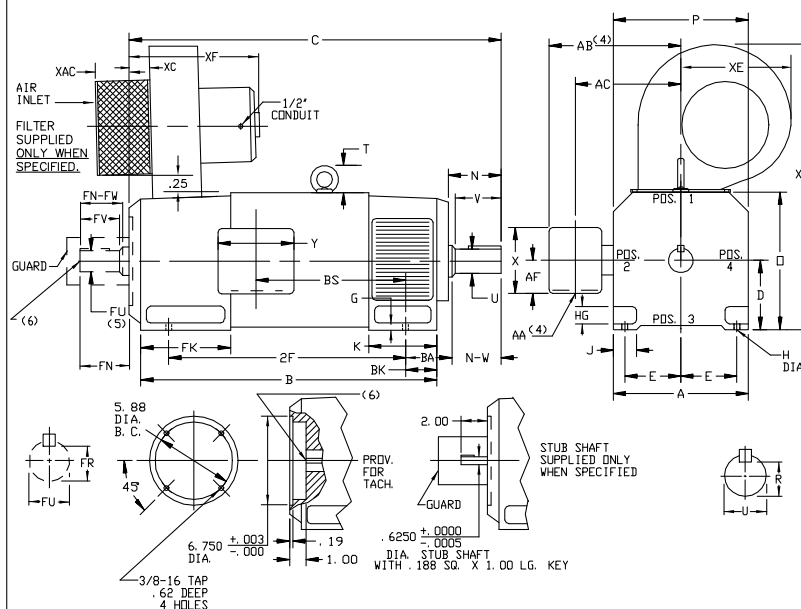
COOLING: FORCE VENTILATED
WITH INTEGRAL
BLOWER AND MOTOR

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	XO
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	2.35

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	1.91	.500	2.50	3.50	3.25	1.625	3.00	1.416	.375	2.25	345
MC2113A7Z	29.62	23.75	12.62	18.00	4.00	3.75	1.875	3.50	1.91	.500	2.50	3.50	3.25	1.625	3.00	1.416	.375	2.25	370
MC2113A7Z	31.25	25.38	14.25	18.00	4.00	3.75	1.875	3.50	1.91	.500	2.50	3.50	3.25	1.625	3.00	1.416	.375	2.25	400
MC2115A7Z	35.25	26.62	15.50	22.00	4.00	3.75	1.875	3.50	1.91	.500	2.50	3.50	3.25	1.625	3.00	1.416	.375	2.25	425
MC2115A7Z	32.50	28.38	18.25	22.00	4.00	3.75	1.875	3.50	1.91	.500	2.50	3.50	3.25	1.625	3.00	1.416	.375	2.25	480

- (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"U" VARY-----, 0.000 - .01.
- (3) "P" AND "F"U" VARY-----, 0.000 - .015.
- (4) TERMINAL BUSH VARIES WITH H.P. FOR DIMENSIONS "AA", "AB", "AC", "AF", "X" AND "OY".
- (5) REFER TO BOX D'S. (STD. 609959-1) "X"/P 609959-2, MILL 609959-3)
- (6) DRIVE END SHAFT SUPPLIER'S DRAWING WHEN SPECIFIED.
- (7) MOTOR SHAFT TAPPED FOR SCREW-IN STUD SHAFT.
- (8) WHEN THE MOTOR APPLICATION DOES NOT REQUIRE THE USE OF DRIVE ENDS, ADD .25 TO "C" DIM.
- (9) TERMINAL BOX CAN BE ROTATED FOR LEAD OUTLET AT TOP, SIDES OR BOTTOM.
- (10) 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.
- (11) BLUDD ASSEMBLY CAN BE LOCATED IN POSITIONS 2, 4, 4X, 5.
- (12) BLOWER ASSEMBLY AND TERMINAL BOX CAN NOT BE LOCATED AT THE SAME POSITION. MOTOR WEIGHT MAY VARY 15% FOR NON-STANDARD RANGES AND ACCESSORIES.
- (13) IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONTACT GEORGE CONTOPIA.

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

REV. LTR: -	VERSION: 00	TDR: 000000578087
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BALDOR

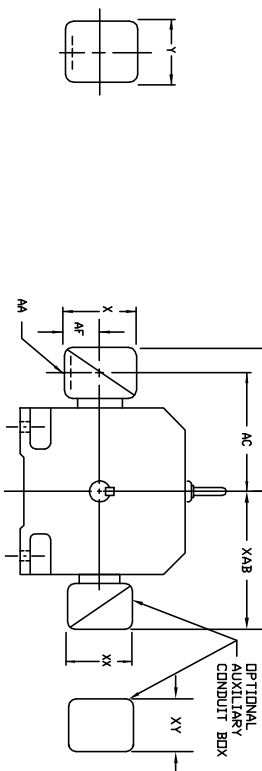
DIMENSION DRAWING,SC2113ATZ – LC2115ATZ,DPP,FOOT MTG

SH 1 of 1

609959-001

INDUSTRIAL DIRECT CURRENT MOTORS AND GENERATORS – RPM III TERMINAL BOX DIMENSIONS STANDARD SIZE AND ONE SIZE LARGER FRAMES C2113ATZ THRU C2815ATZ

DIMENSIONS ARE IN INCHES



FRAME SIZE	MAX. AMPS	STEEL TERMINAL BOX DIMENSIONS									
		STANDARD SIZE					ONE SIZE LARGER				
		AK(1)	AB	AC	AF	X	Y	NUMBER	AK(1)	AB	AC
C2113ATZ	40	3/4 & 1"	8.97	7.47	1.94	4.38	5.00	705028-1-R	1-1/4 & 1-1/2	10.03	8.03
C2115ATZ	96	1-1/4 & 1-1/2	10.03	8.03	2.50	5.50	6.12	705029-1-R	2" & 2-1/2	11.16	8.41
(2)	208	2" & 2-1/2	11.16	8.41	3.19	7.00	7.62	705030-1-R	2" & 2-1/2	11.16	8.41
C2516ATZ	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
C2514ATZ	96	1-1/4 & 1-1/2	11.09	9.09	2.50	5.50	6.12	705029-1-R	2" & 2-1/2	12.22	9.47
C2515ATZ	208	2" & 2-1/2	12.22	9.47	3.19	7.00	7.62	705030-1-R	2" & 2-1/2	12.22	9.47
(2)	128	2"	14.03	10.53	4.25	8.44	7.25	74874-R	3"	14.47	11.22
C2816ATZ	155	3"	14.47	11.22	4.25	8.44	7.25	74874-24-R	4"	15.91	11.84
C2815ATZ	259	4"	15.91	11.84	5.38	10.56	9.00	706308-3-R	5" (4)	18.72	13.47

FRAME SIZE	MAX. AMPS	CAST IRON TERMINAL BOX DIMENSIONS									
		STANDARD SIZE					ONE SIZE LARGER				
		AK(3)	AB	AC	AF	X	Y	NUMBER	AK(3)	AB	AC
C2113ATZ	18	3/4	10.03	8.03	2.50	5.00	5.75	705028-2-S	1"	10.03	8.03
C2115ATZ	40	1"	10.03	8.03	2.50	5.00	5.75	705028-2-T	1-1/2	10.97	8.53
C2115ATZ	96	1-1/2	10.97	8.53	3.00	6.00	7.00	705029-2-R	2"	10.97	8.53
	208	2"	10.97	8.53	3.00	6.00	7.00	705029-2-S	2-1/2	12.66	8.91
	18	3/4	11.09	9.09	2.50	5.00	5.75	705028-2-S	1"	11.09	9.09
C2516ATZ	40	1"	11.09	9.09	2.50	5.00	5.75	705028-2-T	1-1/2	12.03	9.59
C2514ATZ	96	1-1/2	12.03	9.59	3.00	6.00	7.00	705029-2-R	2"	12.03	9.59
C2515ATZ	208	2"	12.03	9.59	3.00	6.00	7.00	705029-2-S	2-1/2	13.72	9.97
C2813ATZ	158	2"	12.78	10.34	3.00	6.00	7.00	75460-T	3"	14.47	10.72
C2815ATZ	195	3"	14.47	10.72	3.62	7.88	9.25	76700-R	4"	15.78	11.59
C2815ATZ	259	4"	15.78	11.59	4.12	9.50	10.50	76708-R	5" (4)	18.59	13.34

CONDUIT BOX DIMENSIONS WITH TERMINAL BOARDS (IEC TYPE BOX)

FRAME SIZE	AMPS	STANDARD SIZE									
		AB	AC	AF	X	AA	Y	PART NUMBER			
C210	100	10.71	8.98	2.72	7.48	---	7.48	706310-56-A			
	200	11.66	9.23	3.33	8.82	---	8.82	706310-56-B			
	100	11.30	9.57	2.72	7.48	---	7.48	706310-56-A			
C250	200	11.85	9.84	3.35	8.82	---	8.82	706310-56-B			
	400	17.48	12.75	6.20	14.39	---	14.39	706310-63-B & 706310-63G			
	800	17.48	12.75	6.20	14.39	---	14.39	706310-63-B & 706310-63G			
	200	12.60	10.59	3.76	8.82	---	8.82	706310-56-B			
	400	18.27	13.54	6.20	14.39	---	14.39	706310-63-B & 706310-63G			
	800	18.27	13.54	6.20	14.39	---	14.39	706310-63-B & 706310-63G			
C280	1600	18.27	13.54	7.68	15.35	---	15.35	706310-63-C			

FRAME SIZE	XAB	OPTIONAL AUXILIARY CONDUIT BOX DIMENSIONS (MAXIMUM)									
		XY	XY	PART NUMBER	FRAME SIZE	XAB	XY	XY	XY	PART NUMBER	
C210	7.38	4.25	4.25	602007-26-A	C210	10.88	8.00	8.00	8.00	706310-3-B	
C250	8.44	4.25	4.25	602007-26-A	C250	11.88	8.00	8.00	8.00	706310-3-B	
C280	9.12	4.25	4.25	602007-26-A	C280	12.62	8.00	8.00	8.00	706310-3-B	

(1) 1/4" CONDUIT.
(2) FRAMES PROVIDED WITH DOUBLE KNUCKLE.
(3) 1/4" PIPE CAP.

(4) TERMINAL BOX 76870-S AND 76870-98 EXTENDS BELOW MOTOR FEET.
TERMINAL BOX 76870-S AND 76870-98 EXTENDS BELOW MOTOR FEET.
DR - C-1 MOUNTING IS SPECIFIED. BOX LOCATED IN TOP WHEN SPECIFIED.
FOR "X"/P/TERMINAL BOX DIMENSIONS SEE 609959-2.
FOR MILL TYPE TERMINAL BOX DIMENSIONS SEE 609959-3.

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

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REVISED: 03: 09: 09 09/06/2013

MTL: -

BY: RGGWT

BALDOR

DIMENSION SHEET

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609959-001

406770-006			406770-006	
CONNECTION DIAGRAM D-C MOTOR - STRAIGHT SHUNT W1 <NOTE 6> H1 H2 SHUNT FIELD INTER-COIL ARMATURE F1 A1 AX2 A2 F2 <NOTE 3> <CAUTION-SEE NOTE 1> <NOTE 4> THREE WIRE RTD TD1 TD2 TD3 <NOTE 5> ARMATURE AND FIELD EXTERNAL CONNECTIONS WARNING- SEE NOTE 7 FOR GROUNDING INSTRUCTIONS A1 A2 F1 F2 - + - + CCW ROTATION ROTATION FACING COMMUTATOR END A1 A2 F1 F2 - + + - CW ROTATION 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 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		BALDOR		
REV. LTR: -	VERSION: 00	TDR: 000000781086	D-C MOTOR CONNECTION DIAGRAM, STRAIGHT SHUNT	
FILE: \RSN\00026\515		REVISED: 02: 41:08 02/01/2013	SH 1 of 1	
MTL: -		BY: MGHPC		