BALDOR • RELIANCE

Customer information packet

D5510R

10HP, 1750RPM, DC, 2113ATY, TEFC,

12/22/2025 7:56:16 PM

Specifications

Enclosure	TEFC
Frame	MC2113ATZ
Frame Material	Exposed Laminations
Output Power	10.000 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	STAB SHUNT
Frame Prefix	MC
Heater Indicator	No Heater
Lifting Lugs	Standard Lifting Lugs
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	33.44 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.	G6142B A
Layout	609951-013
Eff. date	04-13-2015
CD Diagram	406770-002
Poles	00
Leads	
Proprietary	False
Created date	04-10-2015

Nameplate

000613006HP							
CAT.NO.	D5510R	**SPEC NO.**	T21S0304				
FR	MC 2113ATZ	**HP**	10	**DUTY**	CONT		
ENCL.	TEFC	**RPM**	1750/ 2300	**S.F.**	1.0		
ENCL MOD		**VOLTS**	500	**INSUL**	F		
MAX SAFE SPEED	4500	**AMPS**	17.50	**AMB.**	40		
	FIELD DATA	**SER.NO.**					
WINDING	STAB SHUNT	**POWER CODE**	C				
VOLTS	300	**D.E. BRG.**	50BC03J30X				
MAX AMPS @ 25 C	1.55	**O.D.E. BRG.**	45BC02J30X				
HOT AMPS	1.06/ .76	**MIN. AMB.**	0	**TYPE**	TR		
	BRUSH:419904051E; FLD. DATA						
	FOR HIGH VOLTS; FIELD VOLTS				150/300		

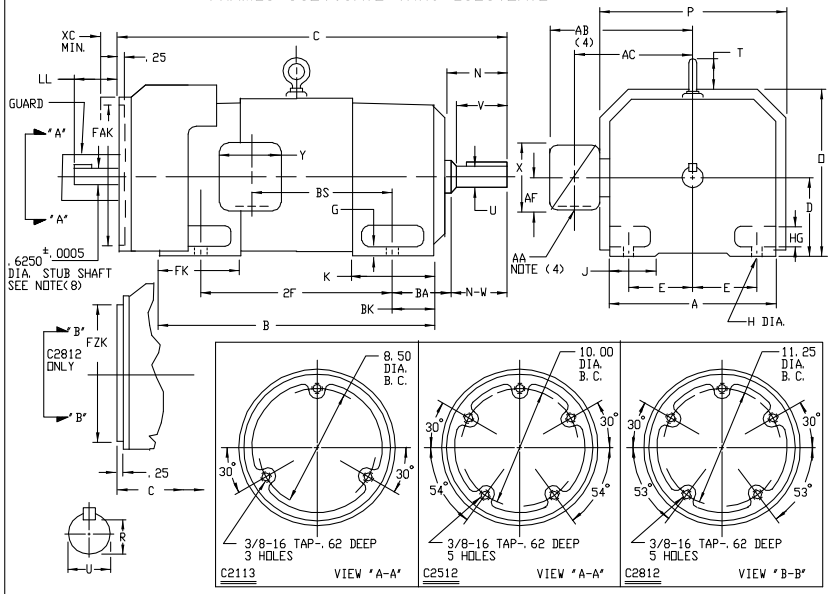
609951-013

INDUSTRIAL DIRECT CURRENT MOTORS AND GENERATORS – RPM III

ENCLOSURE: TOTALLY ENCLOSED
MOUNTING:FOOT
METHOD OF DRIVE:COUPLED OR BELTED

COOLING: FAN COOLED
ACCESSORIES: PROVISION FOR TACHOMETER MOUNTING ONLY WHEN SPECIFIED

FRAMES SC2113ATZ THRU LC2812ATZ



DIMENSIONS ARE IN INCHES

FRAME	A	BC(1)	E	G	H	HG	J	O	P	T	BA	K	FK	BK	FAK(6)	FZK(7)	XC(5)
SC2113ATZ-LC2113ATZ	10.25	5.25	4.25	.44	.44	1.38	1.75	11.62	12.75	1.38	3.50	5.19	6.81	2.38	9.750	N/A	1.25
SC2512ATZ-LC2512ATZ	12.31	6.25	5.00	.50	.56	1.62	2.00	13.62	14.75	1.94	4.25	6.06	8.00	3.00	11.250	N/A	1.25
MC2812ATZ-LC2812ATZ	13.78	7.00	5.50	.62	.56	1.88	2.75	15.06	16.12	2.31	4.75	6.75	9.19	3.50	N/A	12.500	1.25

FRAME	C	B	BS	2F	DRIVE END SHAFT AND KEY							WT. LBS.
					N	N-W	UC(2)	V	R(3)	SQ.	LGTH.	
SC2113ATZ	32.19	22.50	11.38	18.00	4.00	3.75	1.875	3.50	1.591	.500	2.50	355
MC2113ATZ	33.44	23.75	12.62	18.00	4.00	3.75	1.875	3.50	1.591	.500	2.50	380
LC2113ATZ	35.06	25.38	14.25	18.00	4.00	3.75	1.875	3.50	1.591	.500	2.50	410
SC2512ATZ	35.94	25.06	12.06	20.00	4.50	4.25	2.125	4.00	1.845	.500	3.00	555
MC2512ATZ	37.44	26.56	13.56	20.00	4.50	4.25	2.125	4.00	1.845	.500	3.00	590
LC2512ATZ	38.94	28.06	15.06	20.00	4.50	4.25	2.125	4.00	1.845	.500	3.00	630
MC2812ATZ	41.62	29.94	14.25	22.00	5.00	4.75	2.375	4.50	2.021	.625	3.50	835
LC2812ATZ	43.88	32.19	16.50	22.00	5.00	4.75	2.375	4.50	2.021	.625	3.50	900

TACHOMETER	LL
BC-42	
BC-46	
RD-11	
RD-12	4.25
RD-51	
RD-61	
RD-62	
RE-210	
M627, M628	
M727, M737	
M738	
DYNAPAR 74S	
RE-045	3.80
SPY	1.12
	SEE NOTE (9)

(1) 'D' DIMENSION WILL NOT BE EXCEEDED. SHIMS UP TO .03 INCHES IN THICKNESS ARE USUALLY REQUIRED FOR COUPLED OR GEARED MACHINES.
(2) 'U' VARIES----+.000 -.001
(3) 'R' VARIES----+.000 -.015
(4) TERMINAL BOX VARIES WITH H.P. FOR DIMENSIONS 'AA', 'AB', 'AC', 'AF', 'X' AND 'Y', SEE DRAWING NUMBER 609959-1.
(5) WALLS OR OBSTRUCTIONS MUST NOT ENCROACH ON AIR INLET SPACE 'XC'.
(6) 'FAK' VARIES +.005 -.000----FACE RUNOUT AND ECCENTRICITY .007 MAX. T.I.R.
(7) 'FZK' VARIES +.000 -.005----FACE RUNOUT AND ECCENTRICITY .007 MAX. T.I.R.
(8) STUB SHAFT SUPPLIED ONLY WHEN SPECIFIED. KEY SIZE .188 X .188 X 1.00
(9) FOR RE-045 OR SPY PROVISIONS ON 'C2812' ADD 1.00 TO 'LL' DIMENSION. TERMINAL BOX CAN BE ROTATED FOR LEAD OUTLET AT TOP, SIDES OR BOTTOM. 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. 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		
REV. LTR: –	VERSION: 00	TDR: 000000577407
FILE: \RGG\00015\557	REVISED: 11:02:01 01/26/2011	BY: CONNAS
MTL: –		

BALDOR

DIMENSION DRAWING,SC2113ATZ – LC2812ATZ,TEFC,FOOT MTG
SH 1 of 1

609951-013

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								
		AA(1)		AB	AC	AF	X	Y	PART NUMBER	AA(1)		AB	AC	AF	X	Y	PART NUMBER
C2113ATZ C2115ATZ (2)	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	2.50	5.50	6.12	705029-1-R
	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	3.19	7.00	7.62	705030-1-R
	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	3.19	7.00	7.62	705030-1-R
C2512ATZ C2514ATZ C2515ATZ (2)	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	705029-1-R
	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	3.19	7.00	7.62	705030-1-R
	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	3.19	7.00	7.62	705030-1-R
C2812ATZ C2813ATZ C2815ATZ	128	2"		14.03	10.53	4.25	8.44	7.25	74874-R	2" & 2-1/2		12.22	9.47	3.19	7.00	7.62	705030-1-R
	185	3"		14.47	11.22	4.25	8.44	7.25	74874-R	3"		14.47	11.22	4.25	8.44	7.25	74874-R
	269	4"		15.91	11.84	5.38	10.56	9.00	700308-3-R	4"		15.91	11.84	5.38	10.56	9.00	700308-3-R
										5" (4)		18.72	13.47	7.00	12.75	15.00	702658-1-C

FRAME SIZE	MAX. AMPS	CAST IRON TERMINAL BOX DIMENSIONS															
		STANDARD SIZE							ONE SIZE LARGER								
		AA(3)		AB	AC	AF	X	Y	PART NUMBER	AA(3)		AB	AC	AF	X	Y	PART NUMBER
C2113ATZ C2115ATZ	18	3/4		10.03	8.03	2.50	5.00	5.75	705028-2-S	1"		10.03	8.03	2.50	5.00	5.75	705028-2-T
	40	1"		10.03	8.03	2.50	5.00	5.75	705028-2-T	1-1/2		10.97	8.53	3.00	6.00	7.00	705029-2-R
	96	1-1/2		10.97	8.53	3.00	6.00	7.00	705029-2-R	2"		10.97	8.53	3.00	6.00	7.00	705029-2-S
	208	2"		10.97	8.53	3.00	6.00	7.00	705029-2-S	2-1/2		12.66	8.91	3.62	7.88	9.25	705030-2-R
C2512ATZ C2514ATZ C2515ATZ	18	1"		11.09	9.09	2.50	5.00	5.75	705028-2-S	1"		11.09	9.09	2.50	5.00	5.75	705028-2-T
	40	1"		11.09	9.09	2.50	5.00	5.75	705028-2-T	1-1/2		12.03	9.59	3.00	6.00	7.00	705029-2-R
	96	1-1/2		12.03	9.59	3.00	6.00	7.00	705029-2-R	2"		12.03	9.59	3.00	6.00	7.00	705029-2-S
	208	2"		12.03	9.59	3.00	6.00	7.00	705029-2-S	2-1/2		13.72	9.97	3.62	7.88	9.25	705030-2-R
C2812ATZ C2813ATZ C2815ATZ	128	2"		12.78	10.34	3.00	6.00	7.00	75460-T	3"		14.47	10.72	3.62	7.88	9.25	76700-RB
	185	3"		14.47	10.72	3.62	7.88	9.25	76700-RB	4"		15.78	11.59	4.12	9.50	10.50	76708-RR
	269	4"		15.78	11.59	4.12	9.50	10.50	76708-RR	5" (4)		18.59	13.34	7.00	12.75	15.00	76870-S

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
C250	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
	800	17.48	12.75	6.20	14.39	--	14.39	706310-63-B & 706310-63G	706310-63-B & 706310-63G
C280	200	12.60	10.59	3.76	8.82	--	8.82	706310-56-B	706310-226-R
	400	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
	1600	18.27	13.54	7.68	15.35	--	15.35	706310-63-C	706310-63-C

OPTIONAL AUXILIARY CONDUIT BOX DIMENSIONS (MAXIMUM)

FRAME SIZE	XAB	XX	XY	PART NUMBER
C210	7.38	4.25	4.25	602007-26-A
C250	8.44	4.25	4.25	602007-26-A
C280	9.12	4.25	4.25	602007-26-A

FRAME SIZE	XAB	XX	XY	PART NUMBER
C210	10.88	8.00	8.00	706310-3-B
C250	11.88	8.00	8.00	706310-3-B
C280	12.62	8.00	8.00	706310-3-B

(1) "AA" CONDUIT.
(2) STEEL TERMINAL BOX FOR C2113ATZ AND C2512ATZ FRAMES PROVIDED WITH DOUBLE KNOCKOUT.
(3) "AA" PIPE TAP.
(4) TERMINAL BOX 76870-S AND 76870-SR EXTENDS BELOW MOTOR FEET. TERMINAL BOX CAN BE ROTATED FOR LEAD OUTLET AT TOP, SIDES OR BOTTOM. 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. 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	TDR: 000000816512
FILE: \RGG\00021\153		REVISED: 03:09:09 09/06/2013
MTL: –		BY: RGGWT

BALDOR

DIMENSION SHEET

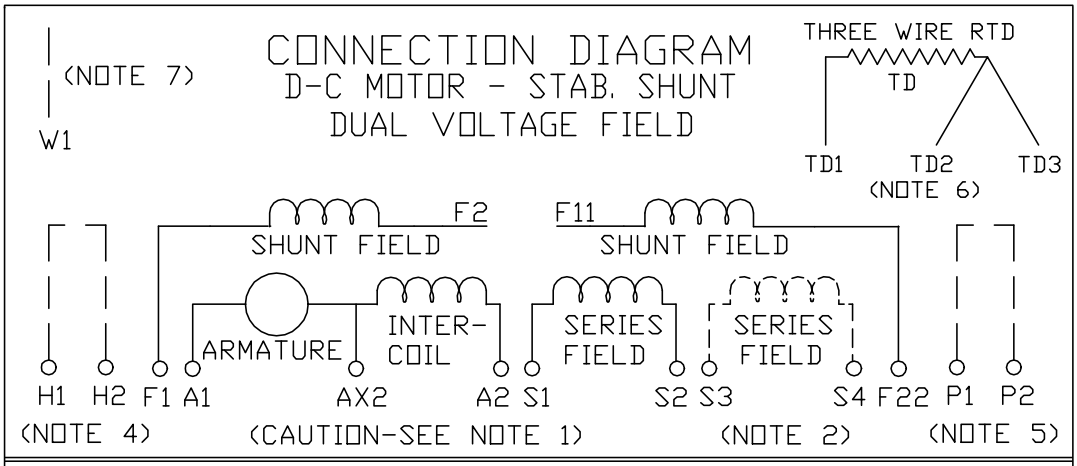
SH 1 of 1

609959-001

406770-002

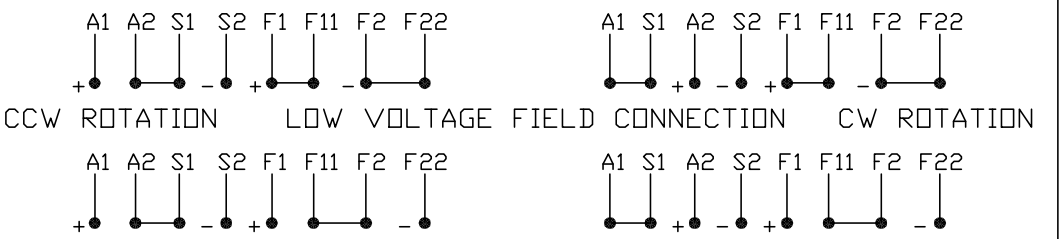
406770-002

CONNECTION DIAGRAM
D-C MOTOR - STAB. SHUNT
DUAL VOLTAGE FIELD



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 RTD'S, 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 _____ CUSTOMER ORDER NO. _____ RELIANCE S.O. NO. _____

BALDOR

D-C MOTOR CONNECTION DIAGRAM STAB. SHUNT, DUAL VOLTAGE FIELD

SH 1 of 1

REV. DESC: UPDATE LOGO AND TITLEBLOCK: LOADED TO BUS
REV. LTR: - | VERSION: 00 | TDR: 000000781086
FILE: \RSN\00026\434 | REVISED: 02:35:07 02/01/2013
MTL: - | BY: MGHPC