

ABB BALDOR RELIANCE III

Customer information packet D2525R

25 1750/2300 MC2812ATZ TEFC 240V

Specifications

Enclosure	TEFC
Frame	MC2812ATZ
Frame Material	Exposed Laminations
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	STAB SHUNT
Frame Prefix	MC
Heater Indicator	No Heater
Lifting Lugs	Standard Lifting Lugs
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	41.62 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.	G6317A B
Layout	609951-013
Eff. date	04-13-2015
CD Diagram	406770-001
Poles	00
Leads	
Proprietary	False
Created date	04-10-2015

Nameplate

000613006HP									
CAT.NO.		SPEC NO.	T28S0301						
FR	MC 2812ATZ	HP	25	DUTY	CONT				
ENCL.	TEFC	RPM	1750/ 2300	S.F.	1.0				
ENCL MOD		VOLTS	240	INSUL		F			
MAX SAFE SPEED	4500	AMPS	87.00	AMB.	40				
	FIELD DATA	SER.NO.							
WINDING	STAB SHUNT	POWER CODE	C						
VOLTS	150	D.E. BRG.	65BC03J30X						
MAX AMPS @ 25 C	4.05	O.D.E. BRG.	55BC02J30X						
HOT AMPS	2.73/ 1.96	MIN. AMB.	0	TYPE	TR				
	BRUSH:419904051AB								

Parts List

Part number	Description	Quantity
SA297071	SA T28S0301	1.000 ea
AA016122	AA T28S0301	1.000 ea
000613006HP	NAMEPLATE - RPM III D-C MOTOR W/CSA LOGO	1.000 ea
000692000FP	NP, WARNING LIFT INSTRUCTIONS	1.000 ea
000692000FS	WARNING LABEL	1.000 ea
033775004EA	DRSCR #6-1/4 304 S.S.	6.000 ea
406770001	C/D TAG (STAB SHUNT)	1.000 ea
036000020HB	HHCS M6-1.0X20MM PLATED	4.000 ea
036000020KB	MHHCS M10-1.5X20MM PLTD.	4.000 ea
036501008AB	KPNUT M6-1.0 ZINCPLTED	8.000 ea
036610010AB	MHSLW M10 PLATED	4.000 ea
419904051AB	BRUSH EXTRUDER DUTY C	8.000 ea
419905003A	FLAT WASHER ROCKER RPM III RGG	4.000 ea
419905008A	HARDWARE	8.000 ea
706364051RE	BRHLD METRIC SPRING CHG.	4.000 ea
706372011RG	BR STUD/ROCKER	1.000 ea
034530018AB	P/NIP 1/8X2-1/4L PLATED	1.000 ea
034630001AJ	1/8" PIPE COUPLING	1.000 ea
034693001AB	PPLG - G508- use 034692001AB	1.000 ea
034693001AB	PPLG - G508- use 034692001AB	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
036000075KB	HHCS M10 75MM ZINCPLAT	3.000 ea
036100060JA	M8-1.25 X 60MM HXSOCHDCS	3.000 ea
036500011AB	METRIC NUT M12-1.75 PLT.	4.000 ea
036500011AB	METRIC NUT M12-1.75 PLT.	4.000 ea
406055001C	GRFTG	1.000 ea
400638001AD	WAVEN - 400 (Customer number 43699)	1.000 ea
418150003A	GREASE FITTING CAP	2.000 ea
609830005V	TBOLT METRIC RP609830-	4.000 ea
801928055A	BRKT,ODE,C280	1.000 ea

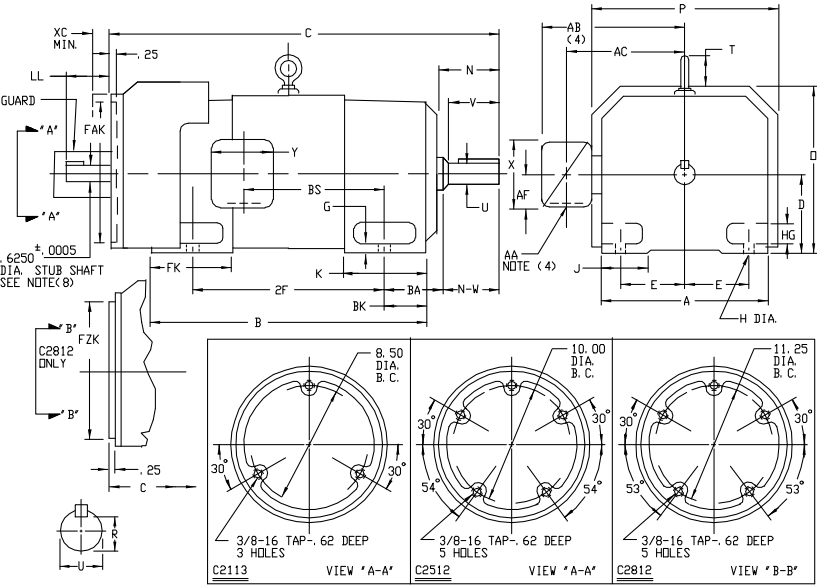
801929052A	BRKT,DE,C280	1.000 ea
032018004AK	HHCS 1/4-20X1/2 PLATED	4.000 ea
032018004CK	HHCS 3/8-16X1/2L PLATED	5.000 ea
032018012DK	HHCS 1/2-13X1-1/2 PLTD. 032018012DR	4.000 ea
034001012AB	WSHR 1/4" PLATED	4.000 ea
034017016AB	LCKW 1/2" PLATED	4.000 ea
034180014GA	KEY 1/2X1/2X1-3/4 L	1.000 ea
036000012HB	HHCS M6X12MM LONG PLATED	4.000 ea
036000045JB	M8-1.25 X 45MM HXHCS	4.000 ea
036620009AB	M8 EXTERNAL LK WASHER	1.000 ea
074875000A	CONDUIT BOX COVER	1.000 ea
078549001SA	(006) FAN	1.000 ea
402731000A	GASK 320-400	1.000 ea
412043002K	BPLUG	1.000 ea
415072001B	CLAMP	1.000 ea
417733004D	GASKET CONDUIT BOX	2.000 ea
418014004A	609185004cDPT/BOX	1.000 ea
418018074A	GROUND LABEL G100 METRIC 160 D.C.	1.000 ea
422919053	HHCVR KIT, C280, DE, XT	1.000 ea
422919053	HHCVR KIT, C280, DE, XT	1.000 ea
422919053	HHCVR KIT, C280, DE, XT	1.000 ea
422919064	HHCVR KIT, C280, ODE, SOLID	1.000 ea
422919064	HHCVR KIT, C280, ODE, SOLID	1.000 ea
422919064	HHCVR KIT, C280, ODE, SOLID	1.000 ea
603909004A	GRILL, FAN	1.000 ea
706320009A	CB, 2.00 CONDUIT, METRIC, SHEET METAL	1.000 ea
706365003A	FNGRL	1.000 ea
801955001A	FNCVR 801955-1WCA	1.000 ea
000640000P	TAG WINDING THERMOST	1.000 ea
000692000NG	LABEL ;NP 4POLE METRIC LABEL	1.000 ea
034180028HA	KEY 5/8X5/8X3-1/2L-445	1.000 ea

609951-013

**INDUSTRIAL DIRECT CURRENT MOTORS
AND GENERATORS - RPM III**

ENCLOSURE: TOTALLY ENCLOSED COOLING: FAN COOLED
MOUNTING: FOOT ACCESSORIES: PROVISION FOR
METHOD OF DRIVE: COUPLED OR BELTED TACHOMETER MOUNTING
ONLY WHEN SPECIFIED

FRAMES SC2113ATZ THRU LC2812ATZ



DIMENSIONS ARE IN INCHES																
FRAME	A	BC(1)	E	G	H	HG	J	D	P	T	BA	K	FK	BK	FAK(6)	FZK(7)
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
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
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

FRAME	C	B	BS	2F	DRIVE END SHAFT AND KEY					WT. LBS.
					N	N-V	U(2)	V	R(3)	
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

- (1) "B" 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) "2F" 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 ENCRDACH 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.

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

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: 11:02:01 01/26/2011	BY: CONNAS
FILE: \RGG\00015\557		
MTL: -		

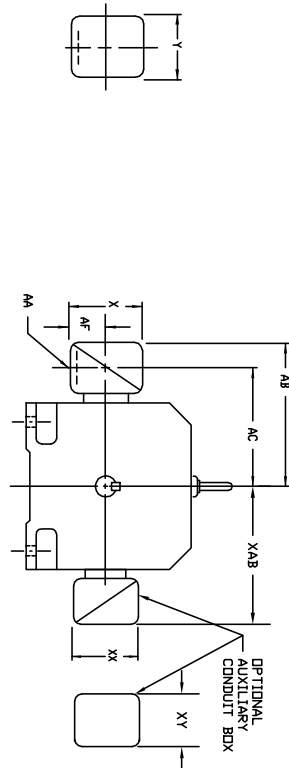
BALDOR
DIMENSION DRAWING, SC2113ATZ - LC2812ATZ, TEFC, FOOT MTG
SH 1 of 1

609951-013

**INDUSTRIAL DIRECT CURRENT MOTORS
AND GENERATORS - RPM III**

TERMINAL BOX DIMENSIONS

STANDARD SIZE AND ONE SIZE LARGER
FRAMES C2113A1Z THRU C2815A1Z



DIMENSIONS ARE IN INCHES

[illegible]

CAST IRON TERMINAL BOX DIMENSIONS															
FRAME SIZE		STANDARD SIZE					ONE SIZE LARGER								
MAX. AMPS	AC(3)	AB	AC	AF	X	Y	NUMBER	AB	AC	AF	X	Y	NUMBER		
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-R	
25113M7	40	1"	10.03	8.03	2.50	5.00	705028-2-T	1-1/2	10.97	8.53	3.00	6.00	7.00	705029-2-R	
25115M7	96	1-1/2	10.97	8.53	3.00	6.00	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	
2512M7	18	3/4	11.09	9.09	2.50	5.00	705028-2-T	1"	11.09	9.09	2.50	5.00	5.75	705028-2-T	
2513M7	40	1"	11.09	9.09	2.50	5.00	705028-2-T	1-1/2	12.03	9.59	3.00	6.00	7.00	705029-2-S	
25135M7	96	1-1/2	12.03	9.59	3.00	6.00	7.00	705029-2-S	2"	12.03	9.59	3.00	6.00	7.00	705029-2-T
208	2"	12.03	9.59	3.00	6.00	7.00	705029-2-T	2-1/2	13.72	9.97	3.62	7.88	9.25	705030-2-S	
25812M7	128	3"	12.78	10.34	3.00	6.00	7.00	754601-T	3"	14.47	10.72	3.62	7.88	9.25	767001-RB
25812M7	165	3"	14.47	10.72	3.62	7.88	9.25	767001-RB	4"	15.78	11.59	4.12	9.50	10.50	767001-R
25815M7	265	4"	15.78	11.59	4.12	9.50	10.50	767001-R	5" (4)	18.59	13.34	4.75	13.50	15.00	768701-S

CONDUIT BOX DIMENSIONS WITH TERMINAL BORDERS (IEC TYPE BOX)										
STANDARD SIZE										
FRAME SIZE	AMP	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	
C250	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 & 706310-636	706310-63-B & 706310-636	
	800	17.48	12.75	6.20	14.39	---	14.39	706310-63-B & 706310-636	706310-63-B & 706310-636	
	200	12.60	10.39	3.76	8.82	---	8.82	706310-56-B	706310-226-R	
C280	400	18.27	13.54	6.20	14.39	---	14.39	706310-63-B & 706310-636	706310-63-B & 706310-636	
	800	18.27	13.54	6.20	14.39	---	14.39	706310-63-B & 706310-636	706310-63-B & 706310-636	
	1600	18.27	13.54	7.68	15.35	---	15.35	706310-63-C	706310-63-C	

FRAME SIZE		X-Y		PART NUMBER	
C310	7.98	4.25	4.25	602007-26-A	C310
C350	8.44	4.23	4.23	602007-26-A	C350
C380	9.12	4.23	4.23	602007-26-A	C380

- (1) STEEL JOINT.
- (2) STEEL TERMINAL BOX FOR CELL13A17 AND C6512A17 FRAMES PROVIDED WITH DOUBLE KNUCKOUT.
- (3) 1/4" PIPE TAP.
- (4) TERMINAL BOX 76870-SR AND 76870-BR EXTENDS BELOW MOTOR FEET. TERMINAL BOX CAN BE ROUTED FOR LEAD OUTLETS AT TOP, SIDES OR BOTTOM. TERMINAL BOX LOCATED ON OPPOSITE SIDE WHEN F-2, W-4, W-5, W-7, OR C-1 MOUNTING IS SPECIFIED. BOX LOCATED ON TOP WHEN SPECIFIED. FOR X/PP TERMINAL BOX DIMENSIONS SEE 6093959-2. FOR WILL TYPE TERMINAL BOX DIMENSIONS SEE 6093959-3.

609959-001

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

BALDOIR

DIMENSION SHEET

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