

# **ABB BALDOR RELIANCE III**



## **Customer information packet** D5525R

25 1750/2300 MC2812ATZ TEFC 500V

**Specifications**

<b>Enclosure</b>	TEFC
<b>Frame</b>	MC2812ATZ
<b>Frame Material</b>	Exposed Laminations
<b>Output Power</b>	25.000 HP
<b>Agency Approvals</b>	CCSA US
<b>Ambient Temperature</b>	40 °C
<b>Bearing Grease Type</b>	Polyrex EM (-20F +300F)
<b>Drip Cover</b>	No Drip Cover
<b>Feedback Device</b>	NO FEEDBACK
<b>Field Winding Type</b>	STAB SHUNT
<b>Frame Prefix</b>	MC
<b>Heater Indicator</b>	No Heater
<b>Lifting Lugs</b>	Standard Lifting Lugs
<b>Motor Standards</b>	NEMA
<b>Mounting Arrangement</b>	F1
<b>Overall Length</b>	41.62 IN
<b>Shaft Extension Location</b>	Pulley End
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Slinger Indicator</b>	No Slinger

**Part Detail**

<b>Revision</b>	-
<b>Type</b>	DC
<b>Mech. spec.</b>	
<b>Base</b>	
<b>Status</b>	PRD/A
<b>Elec. spec.</b>	G6316A A
<b>Layout</b>	609951-013
<b>Eff. date</b>	04-13-2015
<b>CD Diagram</b>	406770-002
<b>Poles</b>	00
<b>Leads</b>	
<b>Proprietary</b>	False
<b>Created date</b>	04-10-2015

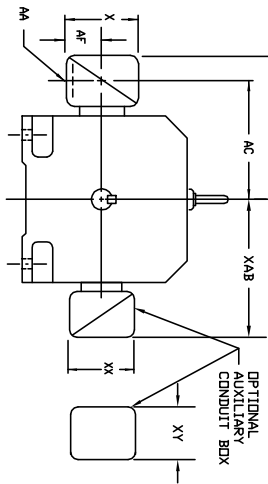
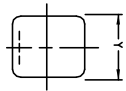
**Nameplate**

000613006HP					
<b>CAT.NO.</b>		<b>SPEC NO.</b>	T28S0302		
<b>FR</b>	MC 2812ATZ	<b>HP</b>	25	<b>DUTY</b>	CONT
<b>ENCL.</b>	TEFC	<b>RPM</b>	1750/ 2300	<b>S.F.</b>	1.0
<b>ENCL MOD</b>		<b>VOLTS</b>	500	<b>INSUL</b>	F
<b>MAX SAFE SPEED</b>	4500	<b>AMPS</b>	41.00	<b>AMB.</b>	40
	<b>FIELD DATA</b>	<b>SER.NO.</b>			
<b>WINDING</b>	STAB SHUNT	<b>POWER CODE</b>	C		
<b>VOLTS</b>	300	<b>D.E. BRG.</b>	65BC03J30X		
<b>MAX AMPS @ 25 C</b>	2.23	<b>O.D.E. BRG.</b>	55BC02J30X		
<b>HOT AMPS</b>	1.50/ 1.10	<b>MIN. AMB.</b>	0	<b>TYPE</b>	TR
	BRUSH:419904051AB; FLD. DATA				
	FOR HIGH VOLTS; F.V. 150/300				



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	STANDARD SIZE						STEEL TERMINAL BOX DIMENSIONS						ONE SIZE LARGER						
		AK(1)	AB	AC	AF	X	Y	AK(1)	AB	AC	AF	X	Y	AK(1)	AB	AC	AF	X	Y	
C2113ATZ	40	3/4 & 1"	8.97	7.47	1.94	4.38	5.00	7.05028-1-R	1-1/4 & 1-1/2	10.03	8.03	2.50	5.50	6.12	7.05029-1-R					
C2115ATZ	96	1-1/4 & 1-1/2	10.03	8.03	2.50	5.50	6.12	7.05029-1-R	2" & 2-1/2	11.16	8.41	3.19	7.00	7.62	7.05030-1-R					
C2117ATZ	208	2" & 2-1/2	11.16	8.41	3.19	7.00	7.62	7.05030-1-R	2" & 2-1/2	11.16	8.41	3.19	7.00	7.62	7.05030-1-R					
C2119ATZ	400	3/4 & 1"	10.03	8.03	1.94	4.38	5.00	7.05028-1-R	1-1/4 & 1-1/2	11.09	9.09	2.50	5.50	6.12	7.05029-1-R					
C2121ATZ	96	1-1/4 & 1-1/2	11.09	9.09	2.50	5.50	6.12	7.05029-1-R	2" & 2-1/2	12.22	9.47	3.19	7.00	7.62	7.05030-1-R					
C2123ATZ	208	2" & 2-1/2	12.22	9.47	3.19	7.00	7.62	7.05030-1-R	2" & 2-1/2	12.22	9.47	3.19	7.00	7.62	7.05030-1-R					
C2813ATZ	188	2"	14.03	10.53	4.25	8.44	7.25	7.6874-R	2" & 2-1/2	14.47	11.22	4.25	8.44	7.25	7.6874-R					
C2815ATZ	259	3"	14.47	11.22	4.25	8.44	7.25	7.6874-R	3"	15.91	11.84	5.38	9.00	7.00308-3-R						

FRAME SIZE	MAX. AMPS	STANDARD SIZE						CAST IRON TERMINAL BOX DIMENSIONS						ONE SIZE LARGER						
		AK(3)	AB	AC	AF	X	Y	AK(3)	AB	AC	AF	X	Y	AK(3)	AB	AC	AF	X	Y	
C2113ATZ	18	3/4	10.03	8.03	2.50	5.00	5.75	7.05028-2-S	1"	10.03	8.03	2.50	5.00	5.75	7.05028-2-T					
C2115ATZ	40	1"	10.03	8.03	2.50	5.00	5.75	7.05028-2-T	1-1/2	10.97	8.53	3.00	6.00	7.00	7.05029-2-S					
C2117ATZ	96	1-1/2	10.97	8.53	3.00	6.00	7.00	7.05029-2-S	2"	12.66	8.91	3.62	7.88	9.25	7.05030-2-R					
C2119ATZ	188	2"	11.09	9.09	2.50	5.00	5.75	7.05028-2-S	1"	11.09	9.09	2.50	5.00	5.75	7.05028-2-T					
C2121ATZ	36	1-1/2	12.03	9.59	3.00	6.00	7.00	7.05029-2-R	2"	12.03	9.59	3.00	6.00	7.00	7.05029-2-S					
C2123ATZ	208	2"	12.78	10.34	3.00	6.00	7.00	7.05029-2-S	2-1/2	13.72	9.97	3.62	7.88	9.25	7.05030-2-R					
C2813ATZ	188	2"	14.47	10.72	3.62	7.88	9.25	7.6700-4-R	3"	14.47	10.72	3.62	7.88	9.25	7.6700-4-R					
C2815ATZ	259	3"	15.78	11.59	4.12	9.50	10.50	7.6700-4-R	5" (4)	15.78	11.59	4.12	9.50	10.50	7.6700-4-R					

FRAME SIZE	AMPS	STANDARD SIZE						OPTIONAL AUXILIARY CONDUIT BOX DIMENSIONS (MAXIMUM)						
		AB	AC	AF	X	AA	Y	PART NUMBER	AB	AC	AF	X	Y	PART NUMBER
C210	100	10.71	8.98	2.72	7.48	---	7.48	7.06310-25-A	10.88	8.00	8.00	7.06310-3-B		
	200	11.66	9.25	3.35	8.82	---	8.82	7.06310-56-B	11.88	8.00	8.00	7.06310-3-B		
	100	11.30	9.57	2.72	7.48	---	7.48	7.06310-56-A	11.88	8.00	8.00	7.06310-3-B		
C250	200	11.85	9.84	3.35	8.82	---	8.82	7.06310-56-B	12.62	8.00	8.00	7.06310-3-B		
	400	17.48	12.75	6.20	14.39	---	14.39	7.06310-63-B & 7.06310-63G	18.27	13.54	6.20	14.39	7.06310-63-B & 7.06310-63G	
	800	17.48	12.75	6.20	14.39	---	14.39	7.06310-63-B & 7.06310-63G	18.27	13.54	6.20	14.39	7.06310-63-B & 7.06310-63G	
C280	200	12.60	10.59	3.76	8.82	---	8.82	7.06310-56-B	13.54	7.68	15.35	---	7.06310-63-C	
	400	18.27	13.54	6.20	14.39	---	14.39	7.06310-63-B & 7.06310-63G	18.27	13.54	6.20	14.39	7.06310-63-B & 7.06310-63G	
	800	18.27	13.54	6.20	14.39	---	14.39	7.06310-63-B & 7.06310-63G	18.27	13.54	6.20	14.39	7.06310-63-B & 7.06310-63G	

- (1) 1/4" CONDUIT
- (2) 1/2" CONDUIT
- (3) 3/4" CONDUIT

- (4) TERMINAL BOX 76870-S AND 76870-R EXTENDS BELOW MOTOR FEET
- (5) TERMINAL BOX 76870-S AND 76870-R EXTENDS TO END OF LEAD DUCT
- (6) TERMINAL BOX 76870-S AND 76870-R EXTENDS TO END OF LEAD DUCT
- (7) TERMINAL BOX 76870-S AND 76870-R EXTENDS TO END OF LEAD DUCT
- (8) TERMINAL BOX 76870-S AND 76870-R EXTENDS TO END OF LEAD DUCT
- (9) TERMINAL BOX 76870-S AND 76870-R EXTENDS TO END OF LEAD DUCT

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	VERSION: 01	TDR: 00000816512
REV. LTR: A	FILE: \RGG\00021\153	REVISED: 03: 09: 09 09/06/2013
MTL: -		BY: RGGWT



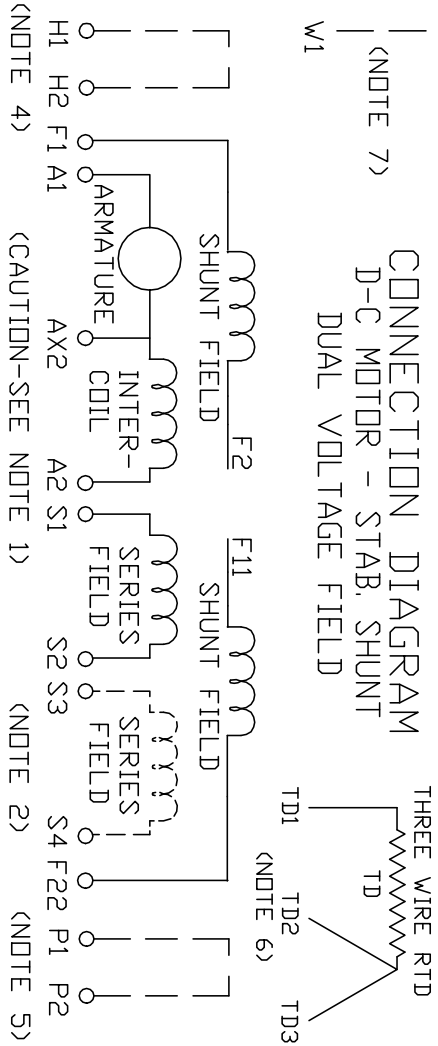
DIMENSION SHEET  
SH 1 of 1

609959-001

406770-002

406770-002

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



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 LEAD MARKED W1.
  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 MOTOR GROUNDING. GROUND LEAD, WHEN PROVIDED, WILL BE GREEN.
- CUSTOMER \_\_\_\_\_ S.O. NO. \_\_\_\_\_  
 CUSTOMER \_\_\_\_\_  
 ORDER NO. \_\_\_\_\_

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	

**BALDOR**

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

SH 1 of 1