

**BALDOR® • RELIANCE®**

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# Customer information packet

## D5060R

60 1750 LC2812ATZ DPG

**Specifications**

<b>Enclosure</b>	DP
<b>Frame</b>	LC2812ATZ
<b>Frame Material</b>	Steel
<b>Output Power</b>	60.000 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>	LC
<b>Heater Indicator</b>	No Heater
<b>Lifting Lugs</b>	Standard Lifting Lugs
<b>Motor Standards</b>	NEMA
<b>Mounting Arrangement</b>	F2
<b>Overall Length</b>	39.62 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>	G6369A B
<b>Layout</b>	609950-001
<b>Eff. date</b>	04-13-2015
<b>CD Diagram</b>	406770-001
<b>Poles</b>	00
<b>Leads</b>	
<b>Proprietary</b>	False
<b>Created date</b>	04-09-2015

**Nameplate**

**000613006HP**

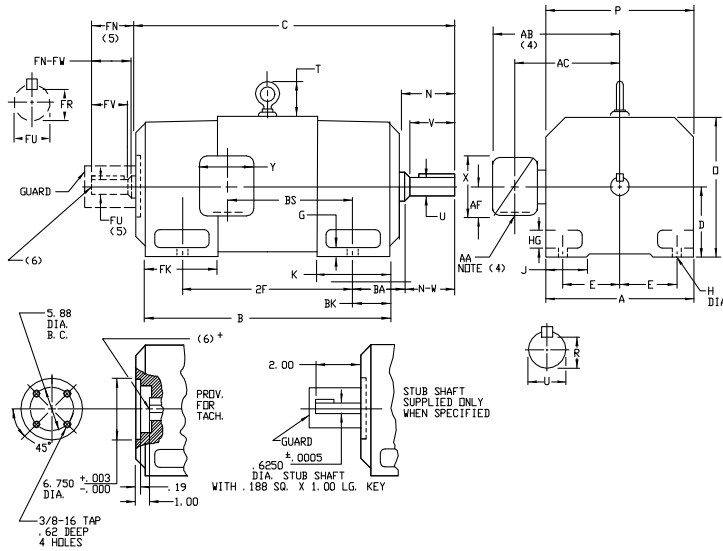
<b>CAT.NO.</b>	D5060R	<b>SPEC NO.</b>	T28S1314		
<b>FR</b>	LC 2812ATZ	<b>HP</b>	60	<b>DUTY</b>	CONT
<b>ENCL.</b>	DP	<b>RPM</b>	1750/ 2100	<b>S.F.</b>	1.0
<b>ENCL MOD</b>	GUARDED	<b>VOLTS</b>	500	<b>INSUL</b>	F
<b>MAX SAFE SPEED</b>	4500	<b>AMPS</b>	100.50	<b>AMB.</b>	40
	<b>FIELD DATA</b>	<b>SER.NO.</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>	2.78	<b>O.D.E. BRG.</b>	55BC02J30X		
<b>HOT AMPS</b>	1.90/ 1.48	<b>MIN. AMB.</b>	0	<b>TYPE</b>	TR
	BRUSH:419904051AD				

609950-001

## INDUSTRIAL DIRECT CURRENT MOTORS AND GENERATORS - RPM III

ENCLOSURE: DRIP-PROOF FULLY-GUARDED, SPLASHPROOF, TOTALLY ENCLOSED  
 COOLING: SELF-VENTILATED NON-VENTILATED  
 MOUNTING: FOOT  
 METHOD OF DRIVE: COUPLED OR BELTED  
 ACCESSORIES: PROVISION FOR TACHOMETER MOUNTING ONLY WHEN SPECIFIED

FRAMES SC2113ATZ THRU LC2812ATZ



DIMENSIONS ARE IN INCHES; SEE 609950-1M FOR DIMENSIONS IN MILLIMETERS

FRAME	A	X(1)	E	G	H	HG	J	D	P	T	BA	K	FK	BK
SC2113ATZ-LC2113ATZ	10.25	5.25	4.25	44	44	1.38	1.75	10.44	10.31	2.56	3.50	5.19	6.81	2.38
SC2512ATZ-LC2512ATZ	12.31	6.25	5.00	50	56	1.62	2.00	12.90	12.44	3.06	4.25	6.06	8.00	3.00
MC2812ATZ-LC2812ATZ	13.78	7.00	5.50	62	56	1.88	2.75	14.00	13.94	3.38	4.75	6.75	9.19	3.50

FRAME	D(7)	B	BS	2F	DRIVE END SHAFT AND KEY					OPPOSITE DRIVE END SHAFT AND KEY(S)					WT.				
					N	N-W	UK(2)	V	UK(3)	SS	LGTH.	FN	FN-FW	FK(2)		FV	FK(3)	SS	LGTH.
SC2113ATZ	28.38	22.50	11.38	18.00	4.00	3.75	1.875	3.50	1.591	.500	2.50	3.50	3.25	1.625	3.00	1.416	.375	2.25	315
MC2113ATZ	29.62	23.75	12.62	18.00	4.00	3.75	1.875	3.50	1.591	.500	2.50	3.50	3.25	1.625	3.00	1.416	.375	2.25	340
SC2512ATZ	31.69	25.06	12.06	20.00	4.50	4.25	2.125	4.00	1.845	.500	3.00	4.00	3.75	1.875	3.50	1.591	.500	2.50	505
MC2512ATZ	33.19	26.56	13.56	20.00	4.50	4.25	2.125	4.00	1.845	.500	3.00	4.00	3.75	1.875	3.50	1.591	.500	2.50	540
LC2512ATZ	34.69	28.06	15.06	20.00	4.50	4.25	2.125	4.00	1.845	.500	3.00	4.00	3.75	1.875	3.50	1.591	.500	2.50	580
MC2812ATZ	37.38	29.94	14.25	22.00	5.00	4.75	2.375	4.50	2.021	.625	3.50	4.50	4.25	2.125	4.00	1.845	.500	3.00	775
LC2812ATZ	39.62	32.19	16.50	22.00	5.00	4.75	2.375	4.50	2.021	.625	3.50	4.50	4.25	2.125	4.00	1.845	.500	3.00	850

- (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 "FU" VARY-----+ .000 - .015
- (3) "R" AND "FR" VARY-----+ .000 - .015
- (4) TERMINAL BOX VARIES WITH H.P. FOR DIMENSIONS "AA", "AB", "AC", "AF", "X" AND "Y". REFER TO BDX D/S. (STD. 609959-1, "X/P" 609959-2, MILL 609959-3)
- (5) OPPOSITE DRIVE END SHFT SUPPLIED ONLY WHEN SPECIFIED.
- (6) MOTOR SHFT TAPPED FOR SCREW-IN STUB SHFT.
- (7) WHEN THE MOTOR APPLICATION DOES NOT REQUIRE THE USE OF DPP, DRIVE END, ADD .25 TO "C" DIM. FOR BRACKET COVER.

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	VERSION: 00	TDR: 000000577407
REV. LTR: -	REVISED: 10.21:19 01/26/2011	BY: RGGBC
MTL: -		

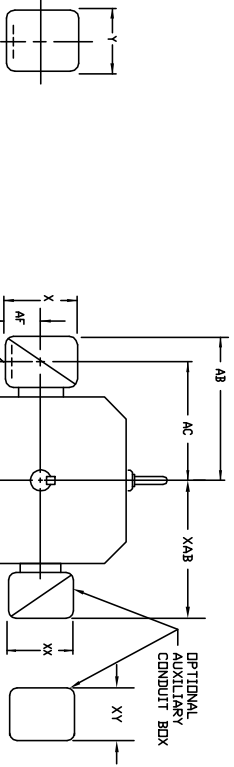
<b>BALDOR</b>
DIMENSION DRAWING, SC2113ATZ - LC2812ATZ, DPP, TENV, FOOT MTG
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609950-001

609959-001

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

609959-001



DIMENSIONS ARE IN INCHES

FRAME SIZE	MAX. AMPS	STANDARD SIZE						STEEL TERMINAL BOX DIMENSIONS						ONE SIZE LARGER						PART NUMBER							
		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												
C2115ATZ (C)	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												
C2518ATZ	40	3/4 & 1"	10.03	8.53	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												
C2518ATZ (C)	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												
C2818ATZ	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												
C2818ATZ (C)	400	2"	14.03	10.53	4.25	8.44	7.25	7.05030-1-R	3"	14.47	11.22	4.25	8.44	7.25	7.05030-1-R												
C2818ATZ	185	3"	14.47	11.22	4.25	8.44	7.25	7.05030-3-R	5" (4)	15.91	11.84	5.38	10.56	9.00	7.05030-3-R												
C2815ATZ	259	4"	15.91	11.84	5.38	10.56	9.00	7.05030-3-R	5" (4)	18.72	13.47	7.00	12.75	15.00	7.05658-1-C												

FRAME SIZE	MAX. AMPS	STANDARD SIZE						CAST IRON TERMINAL BOX DIMENSIONS						ONE SIZE LARGER						PART NUMBER							
		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												
C2115ATZ	96	1-1/2	10.97	8.53	3.00	6.00	7.00	7.05029-2-R	2"	10.97	8.53	3.00	6.00	7.00	7.05029-2-S												
C2115ATZ	208	2"	10.97	8.53	3.00	6.00	7.00	7.05029-2-S	2-1/2	12.66	8.91	3.62	7.88	9.25	7.05030-2-R												
C2518ATZ	18	3/4	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												
C2518ATZ	96	1-1/2	11.09	9.09	2.50	5.00	5.75	7.05028-2-T	1-1/2	12.03	9.59	3.00	6.00	7.00	7.05029-2-R												
C2518ATZ	208	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												
C2813ATZ	185	2"	12.78	10.34	3.00	6.00	7.00	7.05030-2-S	2-1/2	13.72	9.97	3.62	7.88	9.25	7.05030-2-S												
C2813ATZ	185	3"	14.47	10.72	3.62	7.88	9.25	7.05030-4-R	4"	14.47	10.72	3.62	7.88	9.25	7.05030-4-R												
C2815ATZ	259	4"	15.78	11.59	4.12	9.50	10.50	7.05030-4-R	5" (4)	15.78	11.59	4.12	9.50	10.50	7.05030-4-R												

FRAME SIZE	AMPS	STANDARD SIZE						OPTIONAL AUXILIARY CONDUIT BOX DIMENSIONS (MAXIMUM)																			
		AB	AC	AF	X	AA	Y	YAB	XX	YY	XY	XY	XY	XY	XY	XY											
C210	100	10.71	8.98	2.72	7.48	---	7.48	7.06310-56-A																			
C210	200	11.66	9.25	3.35	8.82	---	8.82	7.06310-56-B																			
C210	100	11.30	9.57	2.72	7.48	---	7.48	7.06310-56-A																			
C250	200	11.85	9.84	3.35	8.82	---	8.82	7.06310-56-B																			
C250	400	17.48	12.75	6.20	14.39	---	14.39	7.06310-63-B & 7.06310-63C																			
C250	800	17.48	12.75	6.20	14.39	---	14.39	7.06310-63-B & 7.06310-63C																			
C250	200	12.60	10.59	3.76	8.82	---	8.82	7.06310-56-B																			
C250	400	18.27	13.54	6.20	14.39	---	14.39	7.06310-63-B & 7.06310-63C																			
C250	800	18.27	13.54	6.20	14.39	---	14.39	7.06310-63-B & 7.06310-63C																			
C280	1600	18.27	13.54	7.68	15.35	---	15.35	7.06310-63-C																			

(1) MAX. CONDUIT  
(2) FRAME TERMINAL BOX FOR C2113ATZ AND C2518ATZ  
(3) MAX. PIPE DIA.  
(4) TERMINAL BOX 76970-S AND 76970-R EXTENDS BELOW MOTOR FEET

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

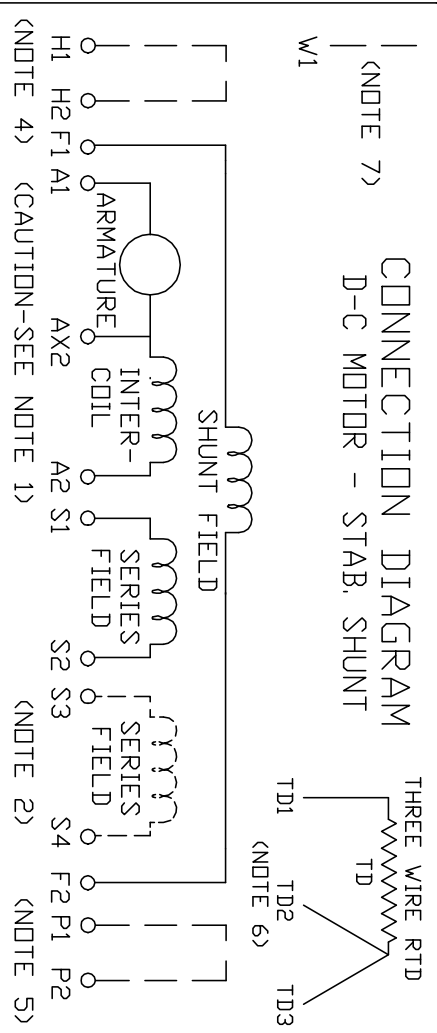


DIMENSION SHEET

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406770-001

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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 DRIVE END BRACKET, ADJACENT TO THE TERMINAL BOX FOR MOTOR GROUNDING. GROUND LEAD, WHEN PROVIDED, WILL BE GREEN.
- CUSTOMER \_\_\_\_\_ ORDER NO. \_\_\_\_\_ S.D. NO. \_\_\_\_\_  
RELIANCE CUSTOMER

REV. DESC: DELETED DUPLICATE WORDS FROM NOTE 8

REV. LTR: A

VERSION: 01

TDR: 00000970330

FILE: \RSN\00026\422

REVISED: 10:19:12 03/11/2016

BY: RAGTBM

MTL: -

**BALDOR**

D-C MOTOR CONNECTION DIAGRAM STAB. SHUNT

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