



Customer information packet

D5140R-BV

40HP, 1150RPM, DC, 2512ATZ, DPG-FV,

Specifications

Enclosure	DP
Frame	LC2512ATZ
Frame Material	Exposed Laminations
Output Power	40.000 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	LC
Heater Indicator	No Heater
Lifting Lugs	Standard Lifting Lugs
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	34.94 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.	G6032D B
Layout	616012-001
Eff. date	04-13-2015
CD Diagram	406770-006
Poles	00
Leads	
Proprietary	False
Created date	04-09-2015

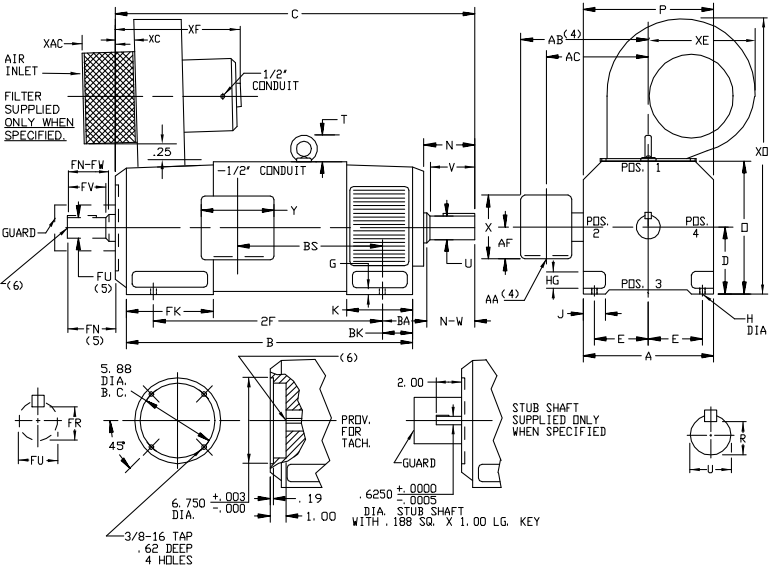
Nameplate

000613006HP									
CAT.NO.	D5140R-BV	SPEC NO.		T25T1355					
FR	LC 2512ATZ	HP	40		DUTY		CONT		
ENCL.	DP	RPM	1150/ 2000		S.F.		1.0		
ENCL MOD	FORCE VENT	VOLTS		500		INSUL		F	
MAX SAFE SPEED	4500	AMPS	72.00		AMB.		40		
FIELD DATA		SER.NO.							
WINDING	STR. SHUNT		POWER CODE		C				
VOLTS	300		D.E. BRG.		60BC03J30X				
MAX AMPS @ 25 C	5.27		O.D.E. BRG.		50BC02J30X				
HOT AMPS	3.51/ 1.69		MIN. AMB.		0		TYPE		TR
BRUSH:419904051G									

616012-001

INDUSTRIAL DIRECT CURRENT MOTORS
AND GENERATORS - RPM III

ENCLOSURE: DRIP-PROOF FULLY-GUARDED, COOLING: FORCE VENTILATED
SPLASHPROOF WITH INTEGRAL
MOUNTING: FOOT BLOWER AND MOTOR
METHOD OF DRIVE: COUPLED OR BELTED ACCESSORIES: PROVISION FOR
TACHOMETER MOUNTING
FRAMES SC2512ATZ THRU UC2515ATZ ONLY WHEN SPECIFIED



DIMENSIONS ARE IN INCHES

FRAME	XAC	XC	XE	XF	XO
SC2512ATZ-UC2515ATZ	7.25	3.00	9.50	16.75	24.75

FRAME	A	DK1	E	G	H	HG	J	Q	P	T	BA	K	FK	BK
SC2512ATZ-UC2515ATZ	12.31	6.25	5.00	.50	.56	1.62	2.00	12.50	12.44	2.44	4.25	6.06	8.00	3.00

FRAME	METHOD OF DRIVE	C(7)	B	BS	2F	N	N-W	UK(2)	V	RC(3)	SQ	LGTH.	FN	FN-FW	FUK(2)	FV	FR(3)	SQ	LGTH.	WT.
SC2512ATZ	COUPLED	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	535
MC2512ATZ	COUPLED	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	570
LC2512ATZ	COUPLED	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	610
C2514ATZ	COUPLED	38.44	31.31	18.31	25.00	5.00	4.75	2.375	4.50	2.021	.625	3.50	4.00	3.75	1.875	3.50	1.591	.500	2.50	695
C2515ATZ	COUPLED	42.44	35.31	22.31	28.00	5.00	4.75	2.375	4.50	2.021	.625	3.50	4.00	3.75	1.875	3.50	1.591	.500	2.50	805
UC2514ATZ	BELTED	38.44	31.31	18.31	25.00	5.00	4.75	2.375	4.50	2.021	.625	3.50	4.00	3.75	1.875	3.50	1.591	.500	2.50	695
UC2515ATZ	BELTED	42.44	35.31	22.31	28.00	5.00	4.75	2.375	4.50	2.021	.625	3.50	4.00	3.75	1.875	3.50	1.591	.500	2.50	805

- (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 -.001
(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 BOX D/S (STD. 609959-1, "X/P" 609959-2, MILL 609959-3)
(5) OPPOSITE DRIVE END SHAFT SUPPLIED ONLY WHEN SPECIFIED.
(6) MOTOR SHAFT TAPPED FOR SCREW-IN STUB SHAFT.
(7) WHEN THE MOTOR APPLICATION DOES NOT REQUIRE THE USE OF DPG 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, V-5, W-7, OR C-1 MOUNTING IS SPECIFIED. BOX LOCATED ON TOP WHEN SPECIFIED.
BLOWER ASSEMBLY CAN BE LOCATED AT POSITIONS 1, 2, OR 4, EXCEPT 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: 000000578087
REV. LTR: -	REVISED: 11:06:09 01/28/2011	BY: CONNAS
FILE: \RGG\00015\979		
MTL: -		

BALDOR

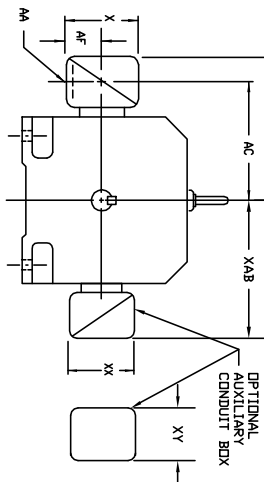
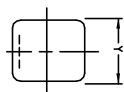
DIMENSION DRAWING, SC2512ATZ - UC2515ATZ, DPG, FOOT MTG

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616012-001

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

STEEL TERMINAL BOX DIMENSIONS																	
FRAME SIZE	MAX. AMPS	STANDARD SIZE						PART NUMBER		ONE SIZE LARGER						PART NUMBER	
		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	705028-1-R		1-1/4 & 1-1/2	10.03	8.03	2.50	5.50	6.12	705029-1-R	
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	3.19	7.00	7.62	705030-1-R	
(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	3.19	7.00	7.62	705030-1-R	
C2514ATZ	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	
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	3.19	7.00	7.62	705030-1-R	
(2)	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	
C2815ATZ	155	3"	14.03	10.53	4.25	8.44	7.25	74874-R		4"	14.47	11.22	4.25	8.44	7.25	74874-R-24-R	
C2815ATZ	259	4"	14.47	11.22	4.25	8.44	7.25	74874-R-24-R		5" (4)	15.91	11.84	5.38	10.56	9.00	706308-3-R	
			15.91	11.84	5.38	10.56	9.00	706308-3-R			18.72	13.47	7.00	12.75	15.00	706308-1-C	

CAST IRON TERMINAL BOX DIMENSIONS														
FRAME SIZE	MAX. AMPS	AK(3)	STANDARD SIZE						ONE SIZE LARGER					
			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	705028-2-S	1"	10.03	8.03	2.50	5.00	5.75
C2115ATZ	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
C2115ATZ	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
(2)	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
C2514ATZ	18	3/4	11.09	9.09	2.50	5.00	5.75	705028-2-S	1"	11.09	9.09	2.50	5.00	5.75
C2514ATZ	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
C2514ATZ	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
C2514ATZ	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
C2813ATZ	155	3"	14.47	10.72	3.62	7.88	9.25	76700-R	4"	14.47	10.72	3.62	7.88	9.25
C2815ATZ	259	4"	15.78	11.59	4.12	9.50	10.50	76708-R	5" (4)	18.59	13.34	7.00	12.75	15.00

CONDUIT BOX DIMENSIONS WITH TERMINAL BOARDS (IEC TYPE BOX)

STANDARD SIZE											
FRAME SIZE	AMPS	AB	AC	AF	X	AA	Y	PART NUMBER			
C210	100	10.71	8.98	2.72	7.48	--	7.48	706310-56-A	706310-225-R		
	200	11.66	9.23	3.33	8.82	--	8.82	706310-56-B	706310-226-R		
	400	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 & 706310-63G	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		
	200	12.60	10.59	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 & 706310-63G	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	XY	PART NUMBER	FRAME SIZE	XAB	XY	PART NUMBER
C210	7.38	4.25	602007-26-A	C210	10.88	8.00	706310-3-B
C250	8.44	4.25	602007-26-A	C250	11.88	8.00	706310-3-B
C280	9.12	4.25	602007-26-A	C280	12.62	8.00	706310-3-B

(1) 1/4" CONDUIT.
(2) RACES PROVIDED WITH DOUBLE KNOCKOUT.
(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"/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

406770-006			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> TD1 TD2 TD3 TD <NOTE 5> THREE WIRE RTD 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 FOR MOTOR GROUNDING. GROUND LEAD, WHEN PROVIDED, WILL BE GREEN.

CUSTOMER _____

CUSTOMER ORDER NO. _____

RELIANCE S.D. NO. _____