

BALDOR® • RELIANCE

Product Information Packet

D2020R

20 1750 LC2113ATZ DPG 240V

Part Detail			
Type:	DC	Prod. Type:	TR
Power Code:	C	Weight:	391
Frame Group:	LC 2113ATZ	Mounting Pos.:	F1
HP:	20	Enclosure:	DPG
RPM:	1750/2300	Wound:	STAB SHUNT
Service Factor:	1.0	Arm V:	240
Arm A:	74.00	Field V:	150
Field A:	4.23	Field A Hot:	2.97/1.90
Insulation Class:	F	Ambient:	40
Duty:	CONT	DE Bearing:	50BC03J30X
ODE Bearing:	45BC02J30X	Brushes:	419904-51AC
Brush Qty.:			

INDUSTRIAL DIRECT CURRENT MOTORS AND GENERATORS - RPM III

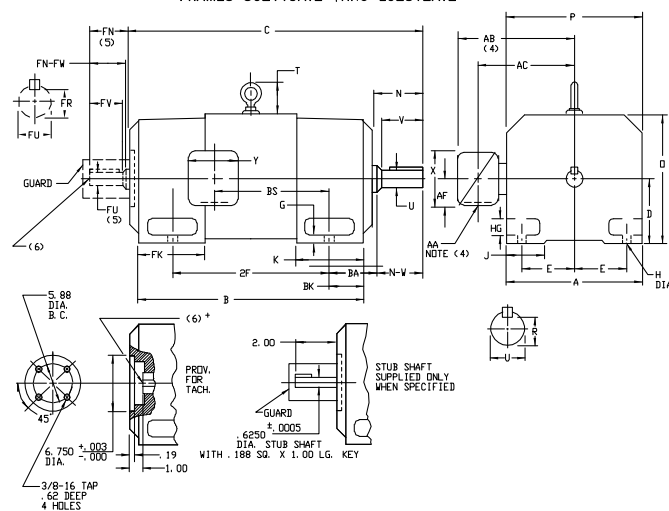
ENCLOSURE: DRIP-PROOF FULLY-GUARDED,
SPLASHPROOF, TOTALLY ENCLOSED

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	D(1)	E	G	H	HG	J	Q	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	12.50	12.44	3.06	4.25	6.06	8.00	3.00
MC2812ATZ-LC2812ATZ	13.78	7.00	5.00	.62	.56	1.98	2.75	14.00	13.94	3.98	4.75	6.75	9.19	3.50

DRIVE DUE START AND KEY											OPPOSITE DRIVE DUE START AND KEY											MT.
FRAME	C7	B	BS	2F	N	N-W	V	R	VR	2D	LGTH	FW	FN	FN-FV	V	VR	FR	FRD	2D	LGTH	LR	
SC2113A7	28	28	22	11.38	18.00	4.00	3.75	1.875	3.50	1.991	500	2.50	3.50	3.25	1.625	3.00	1.416	3.75	2.25	2.15	540	2.95
WC1213A7	28	28	23.75	16.62	18.00	4.00	3.75	1.875	3.50	1.991	500	2.50	3.50	3.25	1.625	3.00	1.416	3.75	2.25	2.15	540	2.95
SC2132A7	28	28	25.00	12.06	18.00	4.00	3.75	1.875	3.50	1.991	500	2.50	3.50	3.25	1.625	3.00	1.416	3.75	2.25	2.15	540	2.95
WC2132A7	28	28	26.50	13.56	18.00	4.00	3.75	1.875	3.50	1.991	500	2.50	3.50	3.25	1.625	3.00	1.416	3.75	2.25	2.15	540	2.95
LC2522A7	28	28	28.00	15.06	18.00	4.00	3.75	1.875	3.50	1.991	500	2.50	3.50	3.25	1.625	3.00	1.416	3.75	2.25	2.15	540	2.95
SC2132A7	28	28	28.00	15.06	18.00	4.00	3.75	1.875	3.50	1.991	500	2.50	3.50	3.25	1.625	3.00	1.416	3.75	2.25	2.15	540	2.95
WC2132A7	28	28	28.00	15.06	18.00	4.00	3.75	1.875	3.50	1.991	500	2.50	3.50	3.25	1.625	3.00	1.416	3.75	2.25	2.15	540	2.95
SC2132A7	28	28	31.50	14.50	22.00	5.00	3.75	1.875	3.50	1.991	500	2.50	3.50	3.25	1.625	3.00	1.416	3.75	2.25	2.15	540	2.95

- (1) IF DIMENSION WILL NOT EXCEED, SHIMS UP TO .03 INCHES IN THICKNESS ARE USUALLY REQUIRED FOR COUPLED OR GEARED MACHINES.
 (2) "R" AND "FR" VARY---- 000 - .015
 (3) "L" AND "FR" VARY---- 000 - .015
 (4) "S" VARIES WITH H. FOR DIMENSIONS "AA", "AB", "AC", "AF", "X" AND "Y".
 (5) TYPED TO BOX 25 (STD. 609959-1, X/XP 609959-2, MILL 609959-3)
 (6) OPPOSITE DRIVE END SHAFT SUPPLIED ONLY WHEN SPECIFIED.
 (7) MOTOR SHAFT TAPPED FOR SCREW-IN SHUB STAFF.
 (8) WHEN THE MOTOR APPLICATION DOES NOT INVOLVE THE USE OF
 DPE, DRIVE FURN. APPLIED TO COLUMN FOR BRACKET COVER.

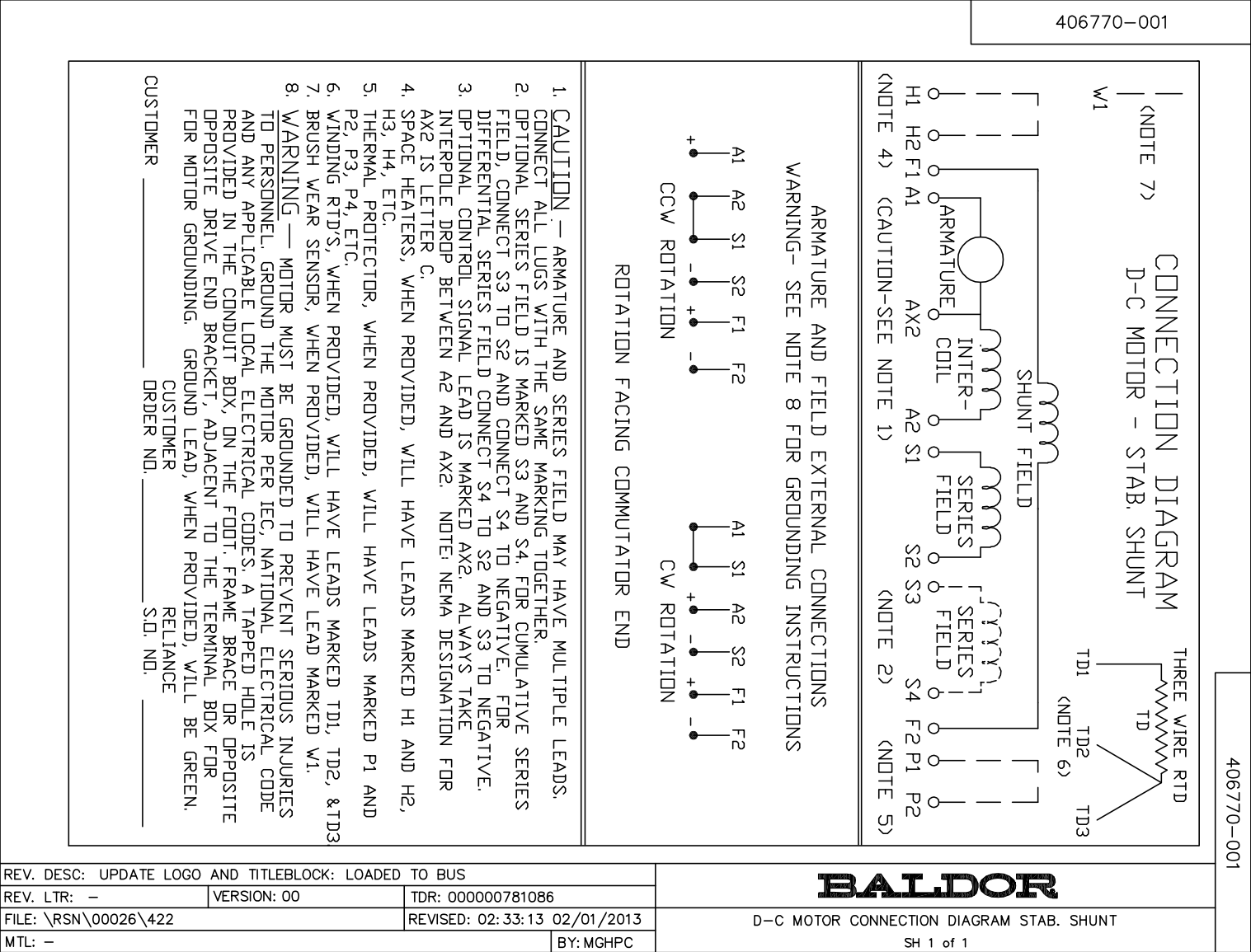
TERMINAL BOX CAN BE ROTATED FOR LEAD OUTLET AT TOP, SIDES OR BOTTOM.
TERMINAL BOX LOCATED ON OPPOSITE SIDE WHEN F-2, V-1, W-4, V-5, V-7,
OR C-1 MOUNTING IS SPECIFIED. BOX LOCATED ON TOP WHEN SPECIFIED.
MOTOR WEIGHT MAY VARY 15% FOR NON-STANDARD RATINGS AND/OR ACCESSORIES.
IF MOUNTING CLEARANCE DETAILS 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\543	REVISED: 10: 21:19 01/26/2011	BY: RGGGB
MTL: -		

BALDOR

DIMENSION DRAWING, SC2113ATZ - LC2812ATZ, DPP, TENV, FOOT MTG
SH 1 of 1



REL. S.O.	FRAME	RATING	RPM	ARM. VOLTS	ARM. AMPS
	LC2113AT	20.0HP	1750	240	74.0
WINDING TYPE					
	S.F.	ENCL.	AMB °C/INSUL	DUTY	FIELD VOLTS
STAB. SHUNT	1.0	DPG	40/F	CONT	150
POWER CODE					
	TYPE	WK ² (LB-FT ²)	HOT ARM. CIR. RES.	FLD. AMPS@25 °C	HOT FIELD RES
C	TR	2.868	.311	4.24	49.6
ARM. CIR. IND. (mh)					
	FIELD IND. (H)	COOLING AIR (CFM/IN H 20)	TURNS PER COIL SHUNT/SERIES	TEST DATE	
3.90	6.85	-/-	525/1	-	
LOAD PERFORMANCE					
LOAD	AMPERES	TORQUE IN LB.-FT.	OUTPUT IN HP	RPM	% EFFICIENCY
NO LOAD	2.0	0	0	1900	0
1/4	19	14.5	5.12	1854	77.1
2/4	37	30.6	10.6	1817	84.0
3/4	56	46.1	15.7	1788	84.7
4/4	74	60.9	20.5	1768	83.7
O.L.	111	87.7	29.1	1744	79.9
RPM VS. FIELD AMPS					
FIELD AMPS	RPM N.L.	RPM F.L.	Eg N.L. @ BASE SPEED	Eg F.L. @ BASE SPEED	
3.01	1900	1768	219	206	
2.76	2011	1862	208	195	
2.50	2137	1976	196	182	
2.25	2301	2118	182	169	
1.99	2518	2300	166	154	
REMARKS: TYPICAL DATA					
MAXIMUM SAFE SPEED = 4500 RPM					
RELIANCE 		DR. BY <u>B. D. GRANT</u> CK. BY <u>B. D. GRANT</u> APP. BY <u>T. S. EVON</u> DATE <u>03/14/85</u>		D-C MOTOR D66068A PERFORMANCE DATA ISSUE DATE 03/11/85	

