

ABB BALDOR RELIANCE III

Customer information packet

D5130R-BV

30HP, 1150RPM, DC, 2115ATZ, DPG-FV,

Specifications

Enclosure	DP
Frame	LC2115ATZ
Frame Material	Steel
Output Power	30.000 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	35.25 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.	G8380A B
Layout	616002-001
Eff. date	04-13-2015
CD Diagram	406770-006
Poles	00
Leads	
Proprietary	False
Created date	04-09-2015

Nameplate

000613006HP									
CAT.NO.		SPEC NO.	T21T1378						
FR	LC 2115ATZ	HP	30	DUTY		CONT			
ENCL.	DP	RPM	1150/ 1800		S.F.	1.0			
ENCL MOD	FORCE VENT	VOLTS	500		INSUL		F		
MAX SAFE SPEED	4500	AMPS	54.00		AMB.		40		
FIELD DATA		SER.NO.							
WINDING	STR. SHUNT	POWER CODE	C						
VOLTS	300	D.E. BRG.	50BC03J30X						
MAX AMPS @ 25 C	3.95	O.D.E. BRG.	45BC02J30X						
HOT AMPS	2.97/ 1.63	MIN. AMB.	0		TYPE		TR		
BRUSH:419904051AB									

Parts List

Part number	Description	Quantity
SA297119	SA T21T1378	1.000 ea
AA016156	AA T21T1378	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
406770006	C/D TAG STRAIGHT SHUNT	1.000 ea
036000012HB	HHCS M6X12MM LONG 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	4.000 ea
419905003A	FLAT WASHER ROCKER RPM III RGG	4.000 ea
419905008A	HARDWARE	8.000 ea
706364051AA	BRHLD ADD HARDWARE	4.000 ea
706372001B	ROCKR METRIC	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
035000001BB	GREASE FTG,GRS.IN	1.000 ea
036000055JB	HHCS,DE CAP	2.000 ea
036000060KB	HHCS,DE CAP	3.000 ea
036500010AB	METRIC NUT M10-1.5PLTD400	4.000 ea
036500010AB	METRIC NUT M10-1.5PLTD400	4.000 ea
406055001B	GRFTG	1.000 ea
400638001H	SPRING WASHER (Customer number 43699)	1.000 ea
418150003A	GREASE FITTING CAP	2.000 ea
609830005AAT	TBOLT METRIC	4.000 ea
801924102A	BRKT,ODE,C210	1.000 ea
801925102A	BRKT,DE,C210	1.000 ea
000613006NT	NAME PLATE IEC	1.000 ea

032018004CK	HHCS 3/8-16X1/2L PLATED	4.000 ea
032018006CK	HHCS 3/8-16X3/4L PLATED 411409	4.000 ea
034017014AB	LCKW 3/8 STD. PLATED	4.000 ea
036000012HB	HHCS M6X12MM LONG PLATED	2.000 ea
036000012JB	M8-1.25 X 12MM HXHDC	3.000 ea
036000020JB	HHCS M8-1.25X20L PLTD-250	4.000 ea
036000045JB	M8-1.25 X 45MM HXHCS	4.000 ea
036600009AB	METRIC FLWASH M8 PLATED	3.000 ea
036620009AB	M8 EXTERNAL LK WASHER	1.000 ea
065564000B	GASK 250-280	1.000 ea
075453000A	CBOXC, PAINTED 250-280	1.000 ea
410978010C	FLANGE, INLET BLOWER HSG.	1.000 ea
410978019A	SCREEN, INLET FLANGE	1.000 ea
417733001D	GASKT	2.000 ea
418010006A	CAST,MPLATE,180-280,EX1,7BY	1.000 ea
418018074A	GROUND LABEL G100 METRIC 160 D.C.	1.000 ea
422919001	CVRKT BE SOLID C210	1.000 ea
422919003	HHCVR KIT,C210,DE,LOUVERED	1.000 ea
422919003	HHCVR KIT,C210,DE,LOUVERED	1.000 ea
422919012	HHCVR KIT,C210,ODE,SOLID	1.000 ea
422919012	HHCVR KIT,C210,ODE,SOLID	1.000 ea
422919012	HHCVR KIT,C210,ODE,SOLID	1.000 ea
610490001AH	.75HP,3450//2850RPM,3PH,60//50HZ,56C,351	1.000 ea
611917002A	GASKT	1.000 ea
611965001A	WHEEL, BLOWER	1.000 ea
706305026A	GUARD,SHAFT	1.000 ea
706320005A	CONDUIT BOX	1.000 ea
708528004G	HOUSING, BLOWER	1.000 ea
000640000P	TAG WINDING THERMOST	1.000 ea
000692000NG	LABEL ;NP 4POLE METRIC LABEL	1.000 ea
034180020GA	KEY 1/2X1/2X2-1/2 L	1.000 ea
418018116	WARNING PLATE	1.000 ea

ABB BALDOR RELIANCE III

CS MOTOR INFORMATION
LC2115ATZ

MOTOR PACKET
30.0HP

D5130R

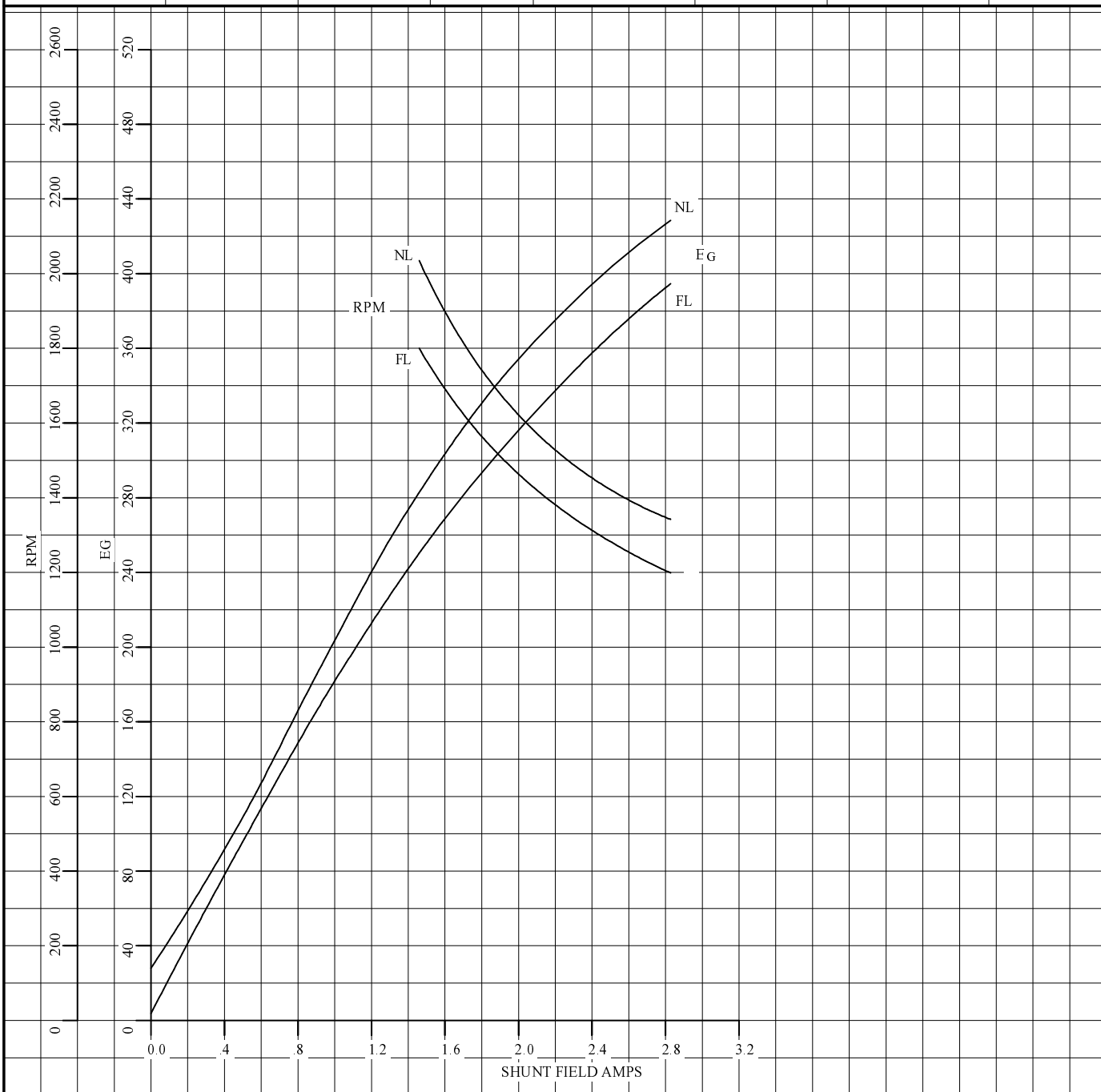
BASE SPEED
1150

WINDING TYPE
PG-FV,
STAB SHUNT

S.F.	ENCL.	AMB ⁰ C/INSUL	DUTY	POWER CODE/FORM FACTOR	TYPE	WK ² (LB-FT ²)
1.0	DPFV	40/F	CONT	C	TR	3.618

COOLING AIR(CFM/IN H ₂ O) ³	ΔT (sec)	R (hot)	T _E	T _M	BASIC RPM	MAX CONT RPM	WINDER RPM	MAX. SAFE
300/2.25	.0986	.178	.0126	.0175	1380	1800	-	4500

WINDING	VOLTS	RESISTANCE		CURRENT		INDUCTANCE	TURNS PER COIL
		25 ⁰ C	HOT	25 ⁰ C	HOT		
ARM CIRCUIT	500	1.00	1.35	-	54.0	17.7 mH	-
SERIES S1-S2	-	.0225	.0299	-	54.0	-	2.00
SHUNT F1-F2	300	76.6	106	3.92	2.83	11.4 H	680



REMARKS: TYPICAL DATA

CURVES VALID FOR NAMEPLATE SPEED RANGE ONLY



DR. BY T. BELL
CK. BY T. BELL
APP. BY T. SEVON
DATE 09-13-95

D-C
APPLICATION
DATA

SG8380AB

ISSUE DATE 09-13-95

REL S.O.	FRAME	RATING	RPM	ARM. VOLTS	ARM. AMPS
	LC2115ATZ	30.0HP	1150	500	54.0
WINDING TYPE		S.F.	ENCL.	AMB °C/INSUL	DUTY
STAB. SHUNT		1.0	DPFV	40/F	CONT
POWER CODE		TYPE	WK ² (LB-FT ²)	HOT ARM.CIR.RES.	FLD. AMPS@25 °C
C		TR	3.618	1.35	3.91
ARM. CIR. IND. (mh)		FIELD IND. (H)	COOLING AIR(CFM/IN H ² 0)	TURNS PER COIL SHUNT/SERIES	TEST DATE
17.7		11.3	300/2.25	680/2	-
LOAD PERFORMANCE					
LOAD	AMPERES	TORQUE IN LB.-FT.	OUTPUT IN HP	RPM	% EFFICIENCY
NO LOAD	.89	0	0	1333	0
1/4	14	32.9	8.07	1289	78.7
2/4	27	67.4	16.1	1252	83.2
3/4	41	100	23.3	1221	82.3
4/4	54	131	29.9	1196	80.0
O.L.	81	186	40.9	1156	73.7
RPM VS. FIELD AMPS					
FIELD AMPS	RPM N.L.	RPM F.L.	Eg N.L. @ BASE SPEED	Eg F.L. @ BASE SPEED	
2.82	1332	1196	428	394	
2.48	1425	1286	401	365	
2.14	1552	1402	369	331	
1.80	1741	1563	330	293	
1.45	2034	1800	282	250	
MAXIMUM SAFE SPEED = 4500 RPM					
REMARKS: TYPICAL DATA					
		DR. BY T. BELL CK. BY T. BELL APP. BY T.S.EVON DATE 09-13-95		D-C MOTOR PERFORMANCE DATA DG8380AB ISSUE DATE 09-13-95	

HP/KW 30.0HP

RPM 1150

ARM. VOLTS 500

WDG. TYPE STAB. SHUNT

ENCL. DPFV

AMB °C INSL. 40/F

ARM. AMPS 54.0

FIELD VOLTS 300

WK²(LB-FT²) 3.618

HOT ARM. CIR. RES. 1.35

ARM. CIRCUIT IND(mh) 17.7

HOT FIELD RES. 106

POWER CODE C

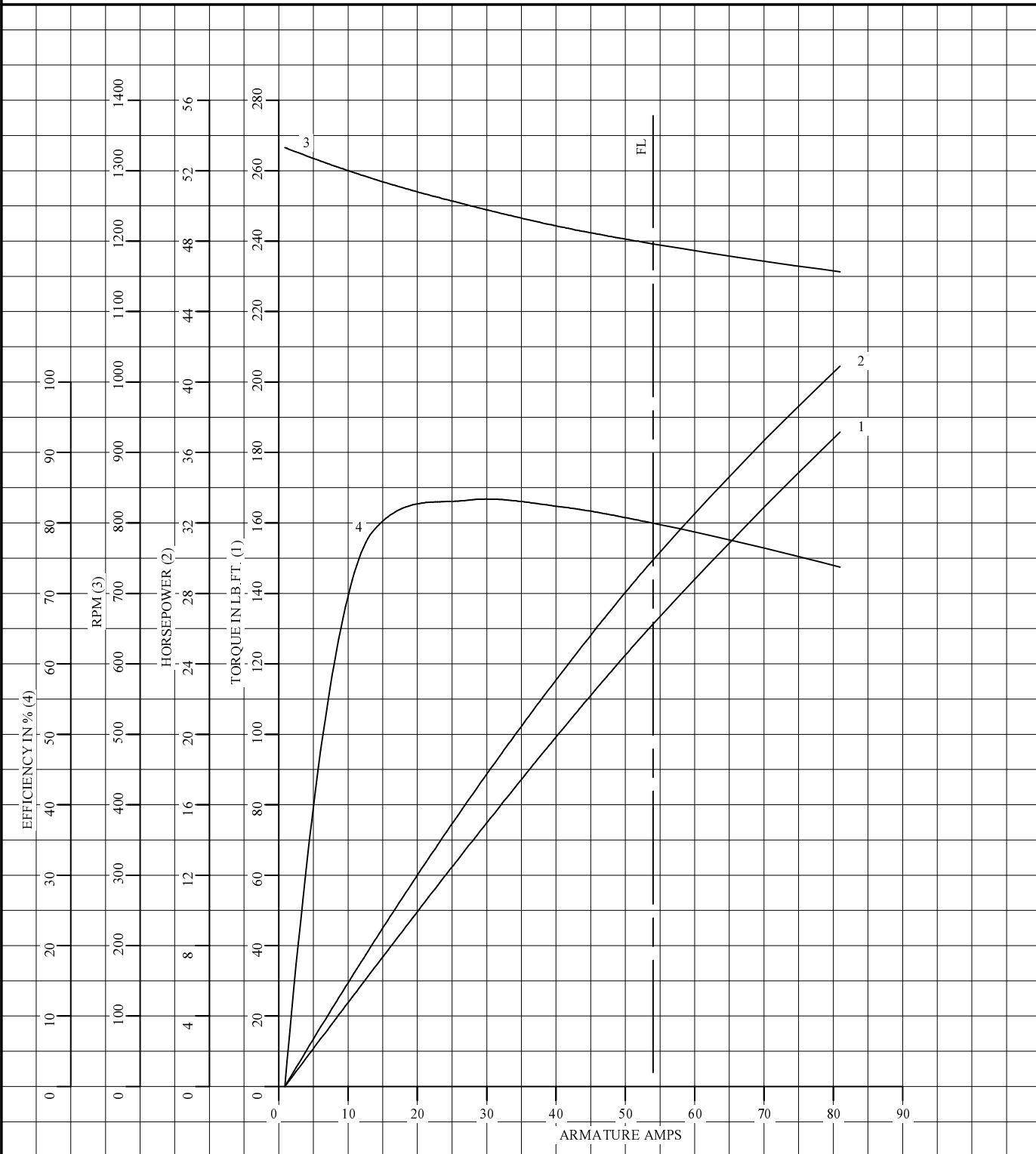
FLD.AMPS@25 °C 3.91

FIELD IND (H) 11.3

CFM/IN. H₂O 300/2.25

TEST S.O. -

TEST DATE -



REMARKS: TYPICAL DATA

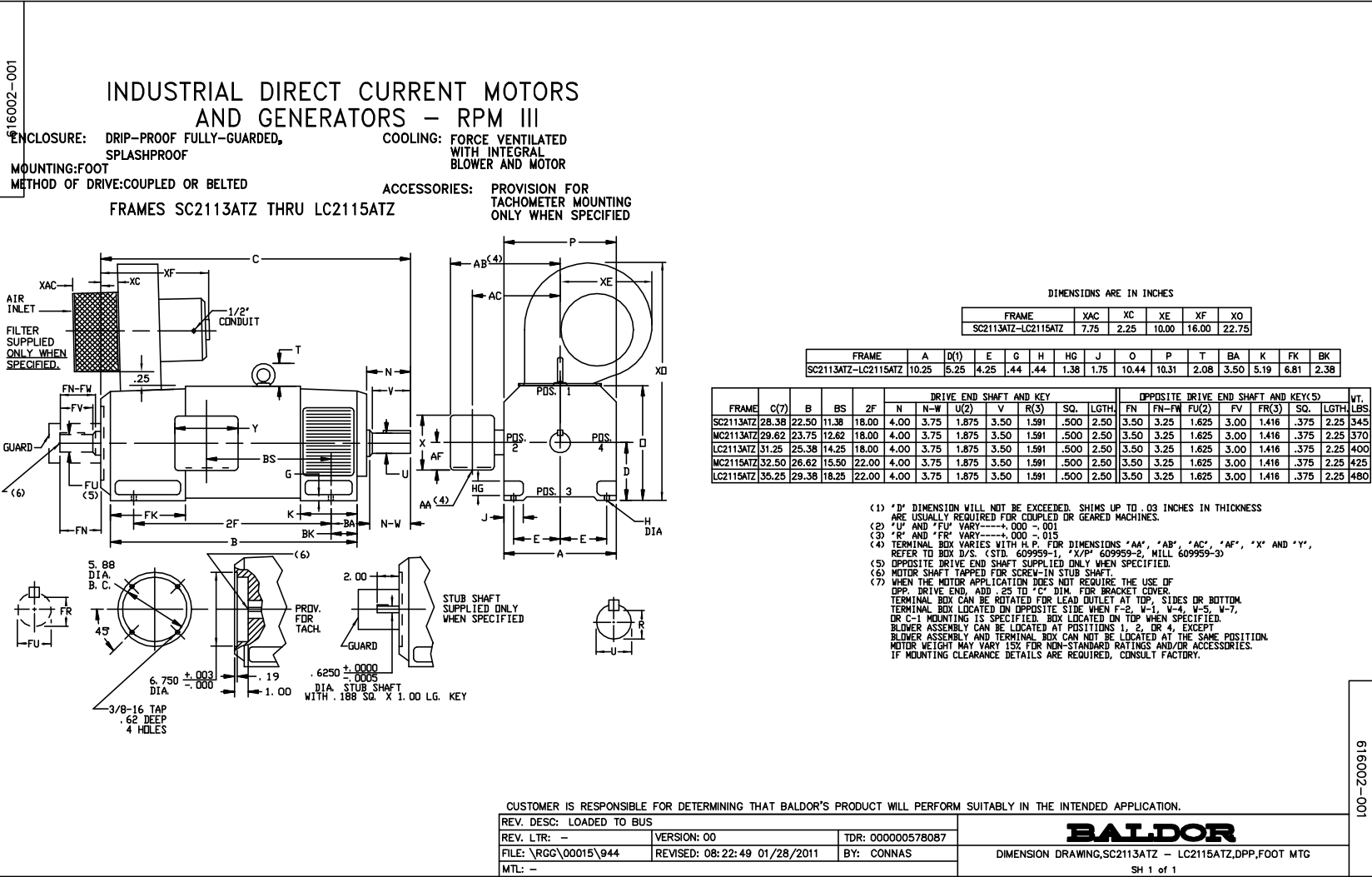


DR. BY T. BELL
CK. BY T. BELL
APP. BY T. S. EVON
DATE 09-13-95

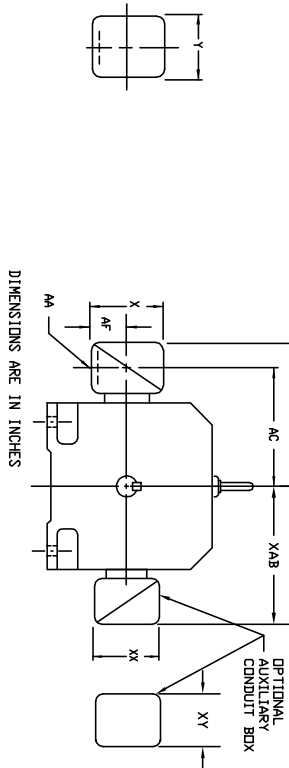
**D-C
PERFORMANCE
CURVES**

PG8380AB

ISSUE DATE 09-13-95



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	NUMBER	AK(1)	AB	AC	AF	X	Y	NUMBER	AK(1)	AB	AC	AF
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	1-1/4 & 1-1/2	10.03	8.03	2.50
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" & 2-1/2	11.16	8.41	3.19
(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	2" & 2-1/2	11.16	8.41	3.19
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	1-1/4 & 1-1/2	11.09	9.09	2.50
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" & 2-1/2	12.22	9.47	3.19
(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	2" & 2-1/2	12.22	9.47	3.19
C2815ATZ	128	2"	14.03	10.53	4.25	8.44	7.25	74874-R	3"	14.47	11.22	4.25	8.44	7.25	74874-R	3"	14.47	11.22	4.25
C2815ATZ	195	3"	14.47	11.22	4.25	8.44	7.25	74874-24-R	4"	15.91	11.84	5.38	10.56	9.00	706308-3-R	4"	18.72	13.47	7.00
(2)	269	4"	15.91	11.84	5.38	10.56	9.00	706308-3-R	5" (4)	18.72	13.47	7.00	12.75	15.00	706589-1-C	5" (4)	21.53	15.00	10.56

FRAME SIZE	MAX. AMPS	STANDARD SIZE						CAST IRON TERMINAL BOX DIMENSIONS						ONE SIZE LARGER					
		AK(3)	AB	AC	AF	X	Y	NUMBER	AK(3)	AB	AC	AF	X	Y	NUMBER	AK(3)	AB	AC	AF
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	705028-2-T	1"	10.03	8.03	2.50
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	705029-2-R	1-1/2	10.97	8.53	3.00
C2115ATZ	96	1-1/2	10.97	8.53	3.00	6.00	7.00	705029-2-R	2"	12.66	8.91	3.62	7.88	9.25	705030-2-R	2"	12.66	8.91	3.62
(2)	208	2"	10.97	8.53	3.00	6.00	7.00	705029-2-S	2-1/2	11.09	9.09	2.50	5.00	5.75	705028-2-T	2-1/2	11.09	9.09	2.50
C2514ATZ	18	3/4	11.09	9.09	2.50	5.00	5.75	705028-2-S	1"	12.03	9.59	3.00	6.00	7.00	705029-2-R	1-1/2	12.03	9.59	3.00
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	705029-2-S	2"	12.03	9.59	3.00
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	705030-2-R	2-1/2	13.72	9.97	3.62
C2813ATZ	128	2"	12.78	10.34	3.00	6.00	7.00	75460-T	3"	14.47	10.72	3.62	7.88	9.25	705030-2-R	3"	14.47	10.72	3.62
C2813ATZ	195	3"	14.47	10.72	3.62	7.88	9.25	76700-R	4"	15.78	11.59	4.12	9.50	10.50	76708-R	4"	15.78	11.59	4.12
C2815ATZ	269	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	76870-S	5" (4)	21.53	15.00	10.56

CONDUIT BOX DIMENSIONS WITH TERMINAL BOARDS (IEC TYPE BOX)

FRAME SIZE	AMPS	STANDARD SIZE						OPTIONAL AUXILIARY CONDUIT BOX DIMENSIONS (MAXIMUM)					
		AB	AC	AF	X	AA	Y	FRAME SIZE	AB	AC	AF	X	Y
C210	100	10.71	8.98	2.72	7.48	--	7.48	C210	10.86	8.00	8.00	8.00	706310-3-B
	200	11.66	9.25	3.35	8.82	--	8.82	C250	11.88	8.00	8.00	8.00	706310-3-B
	100	11.30	9.57	2.72	7.48	--	7.48	C280	12.62	8.00	8.00	8.00	706310-3-B
C250	200	11.85	9.84	3.35	8.82	--	8.82						
	400	17.48	12.75	6.20	14.39	--	14.39						
	800	17.48	12.75	6.20	14.39	--	14.39						
	200	12.60	10.59	3.76	8.82	--	8.82						
C280	400	18.27	13.54	6.20	14.39	--	14.39						
	800	18.27	13.54	6.20	14.39	--	14.39						
	1600	18.27	13.54	7.68	15.35	--	15.35						

(1) MAX CONDUIT
(2) RATES PROVIDED WITH DOUBLE KNUCKLE
(3) MAX PIPE LAP(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 ON 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

