

BALDOR® • RELIANCE

Product Information Packet

D5525R

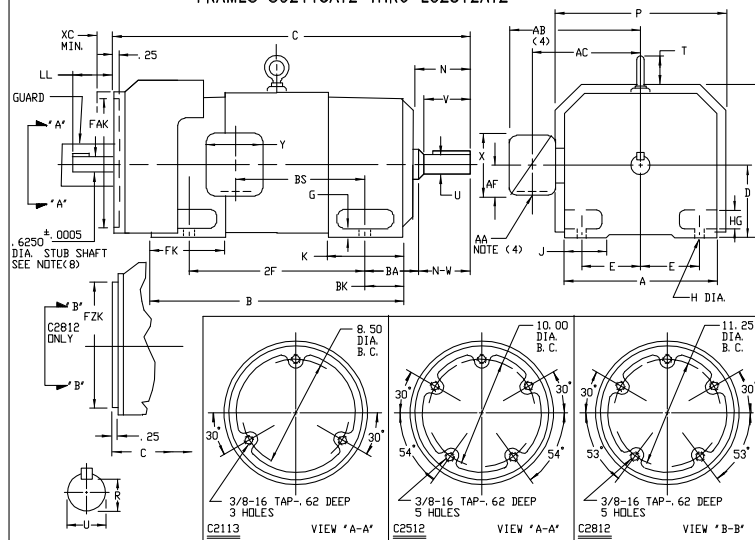
25 1750/2300 MC2812ATZ TEFC 500V

Part Detail			
Type:	DC	Prod. Type:	TR
Power Code:	C	Weight:	830
Frame Group:	MC 2812ATZ	Mounting Pos.:	F1
HP:	25	Enclosure:	TEFC
RPM:	1750/2300	Wound:	STAB SHUNT
Service Factor:	1.0	Arm V:	500
Arm A:	41.00	Field V:	300
Field A:	2.23	Field A Hot:	1.50/1.10
Insulation Class:	F	Ambient:	40
Duty:	CONT	DE Bearing:	65BC03J30X
ODE Bearing:	55BC02J30X	Brushes:	419904-51AB
Brush Qty.:			

ENCLOSURE: TOTALLY ENCLOSED
MOUNTING: FOOT
METHOD OF DRIVE: COUPLED OR BELTED

COOLING: FAN COOLED
ACCESSORIES: PROVISION FOR
TACHOMETER MOUNTING
ONLY WHEN SPECIFIED

FRAMES SC2113ATZ THRU LC2812ATZ



DIMENSIONS ARE IN INCHES

FRAME	A	D(1)	E	G	H	HG	J	D	P	T	BA	K	FK	BK	FAK(6)	FZK(7)	XC(5)
SC2113ATZ-LC2113ATZ	10.25	5.25	4.25	.44	.44	1.38	1.75	11.62	12.75	1.38	3.50	5.19	6.81	2.38	9.750	N/A	1.25
SC2512ATZ-LC2512ATZ	12.31	6.25	5.00	.50	.56	1.62	2.00	13.62	14.75	1.94	4.25	6.06	8.00	3.00	11.250	N/A	1.25
MC2812ATZ-LC2812ATZ	13.78	7.00	5.50	.62	.56	1.88	2.75	15.06	16.12	2.31	4.75	6.75	9.19	3.50	N/A	12.500	1.25

FRAME	C	B	BS	2F	DRIVE END SHAD AND KEY							WT.	LS
					N	N-W	U(2)	V	R(3)	SO	LGTH		
SC2113A72	31.29	22.50	11.38	18.00	4.00	7.5	1.875	3.50	1.591	500	2.30	355	
SC2113A72	33.44	23.75	12.62	18.00	4.00	7.5	1.875	3.50	1.591	500	2.30	380	
LC2113A72	35.06	25.38	14.25	18.00	4.00	7.5	1.875	3.50	1.591	500	2.30	410	
SC2152A72	35.94	26.56	12.06	20.00	4.00	5.25	1.25	4.00	1.845	500	3.00	555	
SC2152A72	37.44	26.56	13.56	20.00	4.00	5.25	1.25	4.00	1.845	500	3.00	590	
LC2152A72	38.94	28.06	15.06	20.00	4.00	5.25	1.25	4.00	1.845	500	3.00	630	
SC2812A72	41.62	29.94	14.25	22.00	4.00	7.5	3.375	4.50	2.021	625	3.50	835	
LC2812A72	43.88	31.19	16.50	22.00	4.00	7.5	3.375	4.50	2.021	625	3.50	900	

- (1) "D" DIMENSION WILL NOT BE EXCEEDED. SHIMS UP TO .03 INCHES IN THICKNESS ARE USUALLY REQUIRED FOR COUPLED OR GEARED MACHINES.
- (2) *VARIES +000 - -000
- (3) *R VARIES +000 - -015
- (4) TERMINAL BUSH VARIES WITH H.P. FOR DIMENSIONS "A", "AB", "AC", "AF", "AG", "AH", "AI", "J", "K", "L", "M", "N", "O", "P", "Q", "R", "S", "T", "U", "V", "W", "X", "Y", "Z".
- (5) WALLS OR OBSTRUCTIONS MUST NOT ENROUCH ON AIR INLET SPACE "X".
- (6) "FAK" VARIES +.005 - -000—FACE ROUNDOFF AND ECCENTRICITY .007 MAX. T.I.R. .001 MAX.
- (7) "FAL" VARIES +.005 - -000—FACE ROUNDOFF AND ECCENTRICITY .007 MAX. T.I.R. .001 MAX.
- (8) STUB SHAFT SUPPLIED ONLY WHEN SPECIFIED. KEY SIZE .188 X .188 X 1.00
- (9) TERMINAL BUSH FOR LEAD INLET. LEAD INLET MUST BE LOCATED ON TOP OF LEAD INLET. LEAD INLET BUSH CAN BE ROTATED FOR LEAD OUTLET AT TOP, SIDES OR BOTTOM.
- (10) "C" LEAD INLET BUSH FOR LEAD INLET. LEAD INLET MUST BE LOCATED ON TOP OF LEAD INLET. LEAD INLET BUSH CAN BE ROTATED FOR LEAD OUTLET AT TOP, SIDES OR BOTTOM.
- (11) C-1 MOUNTING IS SPECIFIED. BUSH LOCATED ON TOP OF LEAD INLET. LEAD INLET BUSH CAN BE ROTATED FOR LEAD OUTLET AT TOP, SIDES OR BOTTOM.
- (12) WEIGHT MAY VARY 15% FOR NON-STANDARD RATIO AND/OR ACCESSORIES.
- (13) LEADING CLEARANCE .0015 INCHES MINIMUM FOR CONICAL SHAFTS.

TACHOMETER	LU
BC-42	
BC-46	
RD-11	
RD-12	4.
RD-51	
RD-61	
RD-62	
RE-210	
M627, M628	
M727, M737	
M738	
DYNAPAR 74S	
RE-045	3.8
SPY	1.1

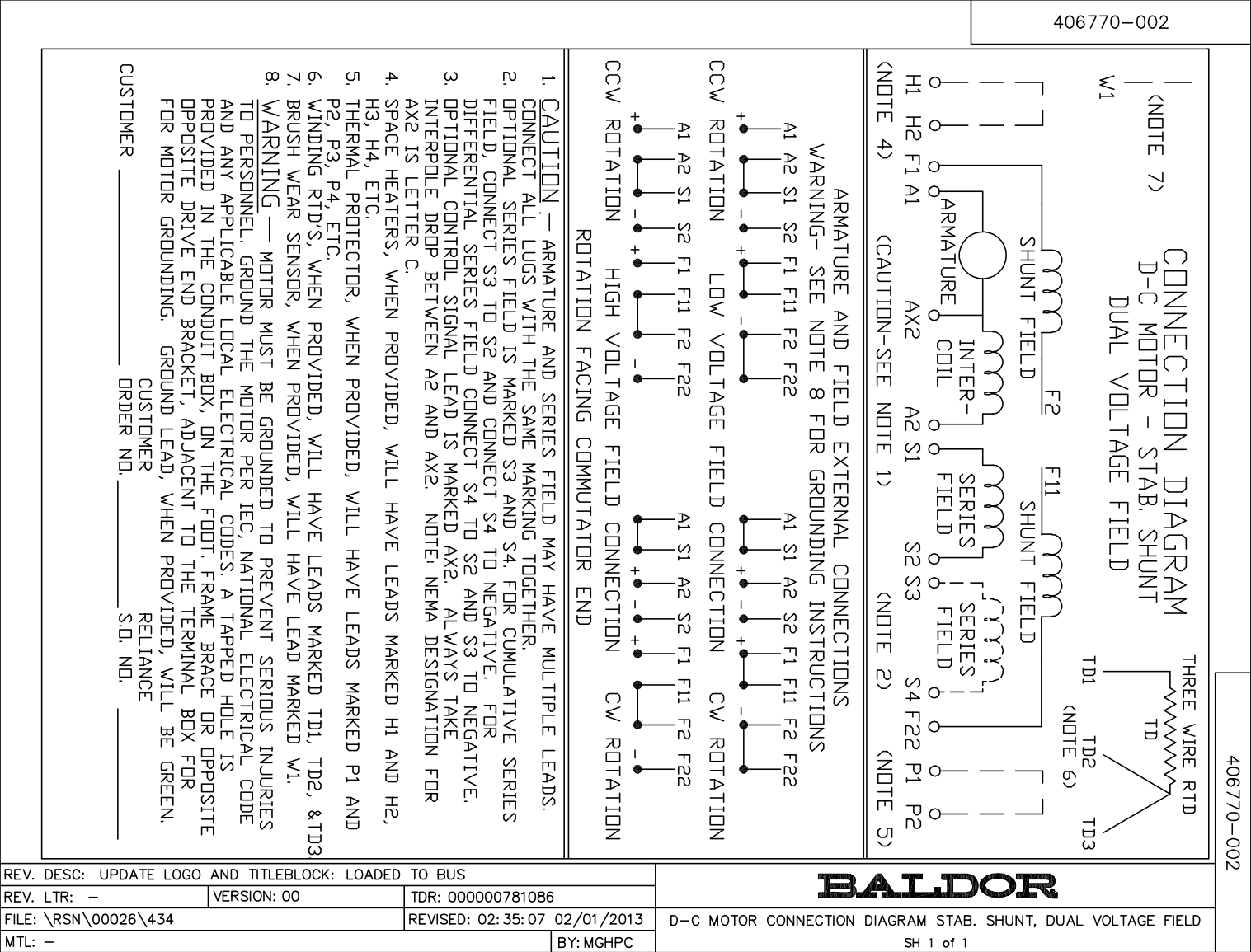
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

REV. DESC: LOADED TO BUS		
REV. LTR: -	VERSION: 00	TDR: 000000577407
FILE: \RGG\00015\557	REVISED: 11:02:01 01/26/2011	BY: CONNAS
MTL: -		

BALDOR

DIMENSION DRAWING.SC2113ATZ - LC2812ATZ.TEFC.FOOT MTG

SH 1 of 1



REL. S.O.	FRAME	RATING	RPM	ARM. VOLTS	ARM. AMPS
	MC2812AT	25.0HP	1750	500	41.0
WINDING TYPE					
	S.F.	ENCL.	AMB °C/INSUL	DUTY	FIELD VOLTS
STAB. SHUNT	1.0	TEFC	40/F	CONT	300
POWER CODE					
	TYPE	WK ² (LB-FT ²)	HOT ARM. CIR. RES.	FLD. AMPS@25 °C	HOT FIELD RES
C	TR	8.469	.556	2.23	199
ARM. CIR. IND. (mH)					
	FIELD IND. (H)	COOLING AIR (CFM/IN H 20)		TURNS PER COIL SHUNT/SERIES	TEST DATE
9.53	43.9	-/-		1100/2	-
LOAD PERFORMANCE					
LOAD	AMPERES	TORQUE IN LB.-FT.	OUTPUT IN HP	RPM	% EFFICIENCY
NO LOAD	1.4	0	0	1904	0
1/4	10	16.4	5.84	1874	76.9
2/4	21	35.4	12.4	1843	85.8
3/4	31	54.3	18.8	1817	88.1
4/4	41	73.1	25.0	1794	88.5
O.L.	62	110	36.7	1760	87.6
RPM VS. FIELD AMPS					
FIELD AMPS	RPM N.L.	RPM F.L.	Eg N.L. @ BASE SPEED	Eg F.L. @ BASE SPEED	
1.50	1903	1794	457	446	
1.40	2023	1888	432	421	
1.30	2156	2001	406	396	
1.20	2314	2136	378	368	
1.09	2506	2300	348	340	
REMARKS: TYPICAL DATA					
MAXIMUM SAFE SPEED = 4500 RPM					
RELIANCE 		DR. BY <u>B. GRANT</u> CK. BY <u>B. GRANT</u> APP. BY <u>T. EVON</u> DATE <u>8-5-85</u>		D-C MOTOR PERFORMANCE DATA D66316A ISSUE DATE 8-5-85	

