

BALDOR® • RELIANCE

Product Information Packet

ZDFRPM21204C

20HP, 1750RPM, 3PH, 60HZ, 2162C, TEFC, FOOT

Part Detail							
Revision:	-	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:		Elec. Spec:	L3308A	CD Diagram:	422927-001
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:		Layout:	617517-023
Frame:	FL2162C	Mounting:	F3	Poles:	04	Created Date:	04-10-2015
Base:		Rotation:	R	Insulation:	H	Eff. Date:	04-13-2015
Leads:						Replaced By:	
Literature:		Elec. Diagram:					

Nameplate 000613006NN

	DUTY	HP	RPM	AMPS	VOLTS	HZ	
	CONT	20	1775	27	460	60	
	CONT	20	3545	25	460	120	
CAT.NO.	ZDFRPM21204C		SPEC. NO.		P21T0400		
SER.NO.			FR	FL 2162CZ	INSUL	H	
PH.	3		MAX SAFE SPEED	5000	AMB.	40	MIN. AMB. 0
DESIGN NO.	L3308A		TYPE		ENCL.	TEFC	
S.F.	1.0		D.E. BRG.	50BC03JPP30A			
ENCL MOD			O.D.E. BRG.	45BC02JPP30A			

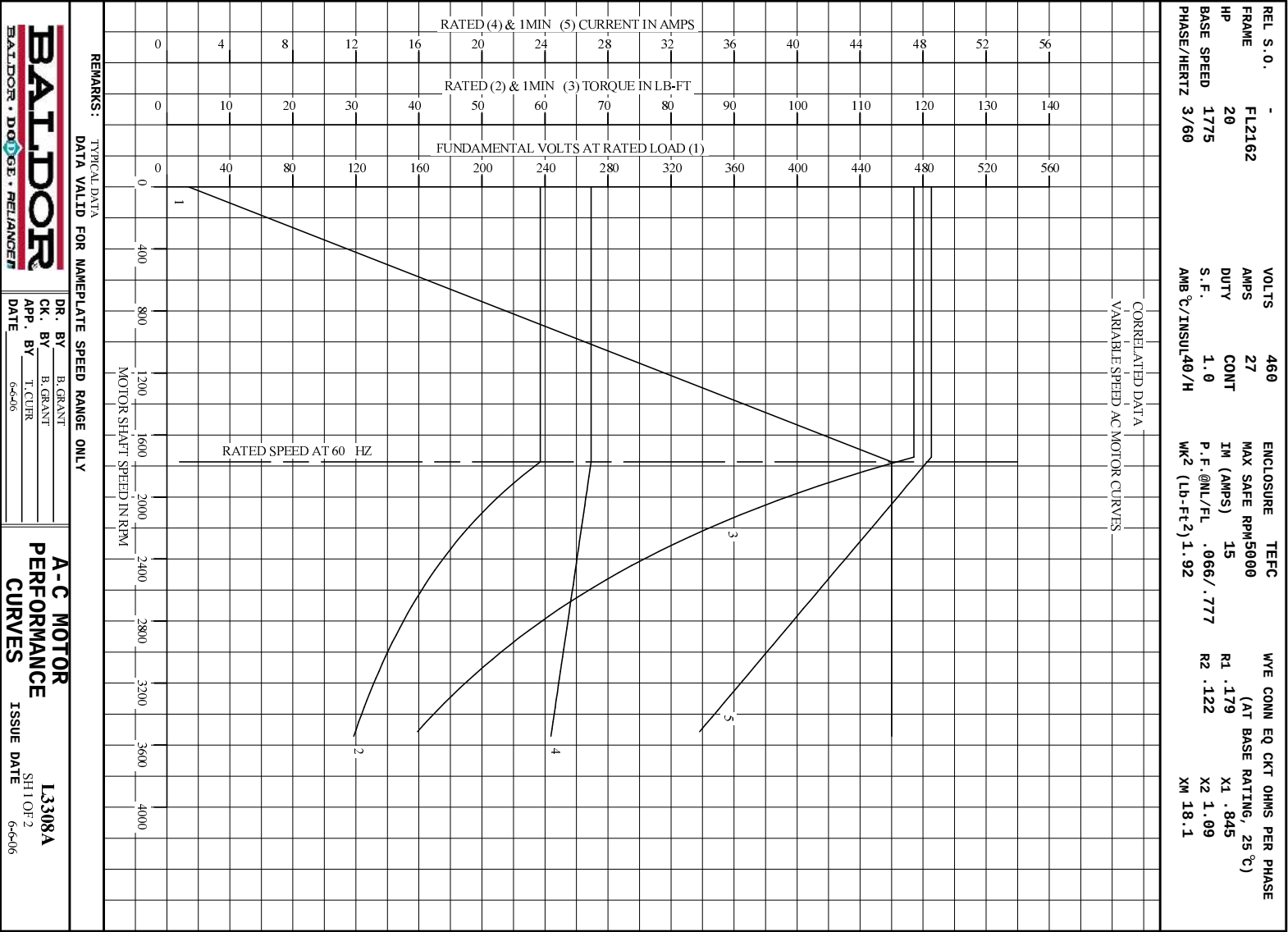
REL S.O.	-	VOLTS	460	ENCLOSURE	TEFC	WYE CONN	EQ CKT OHMS PER PHASE
FRAME	FL2162	AMPS	27	MAX SAFE RPM	5000	(AT BASE RATING, 25 °C)	
HP	20	DUTY	CONT	IM (AMPS)	15	R1 .179	X1 .845
BASE SPEED	1775	S.F.	1.0	P.F. @NL/FL	.066/.777	R2 .122	X2 1.09
PHASE/HERTZ	3/60	AMB °C/INSUL	40/H	WK ² (LB-FT ²)	1.92		XN 18.1

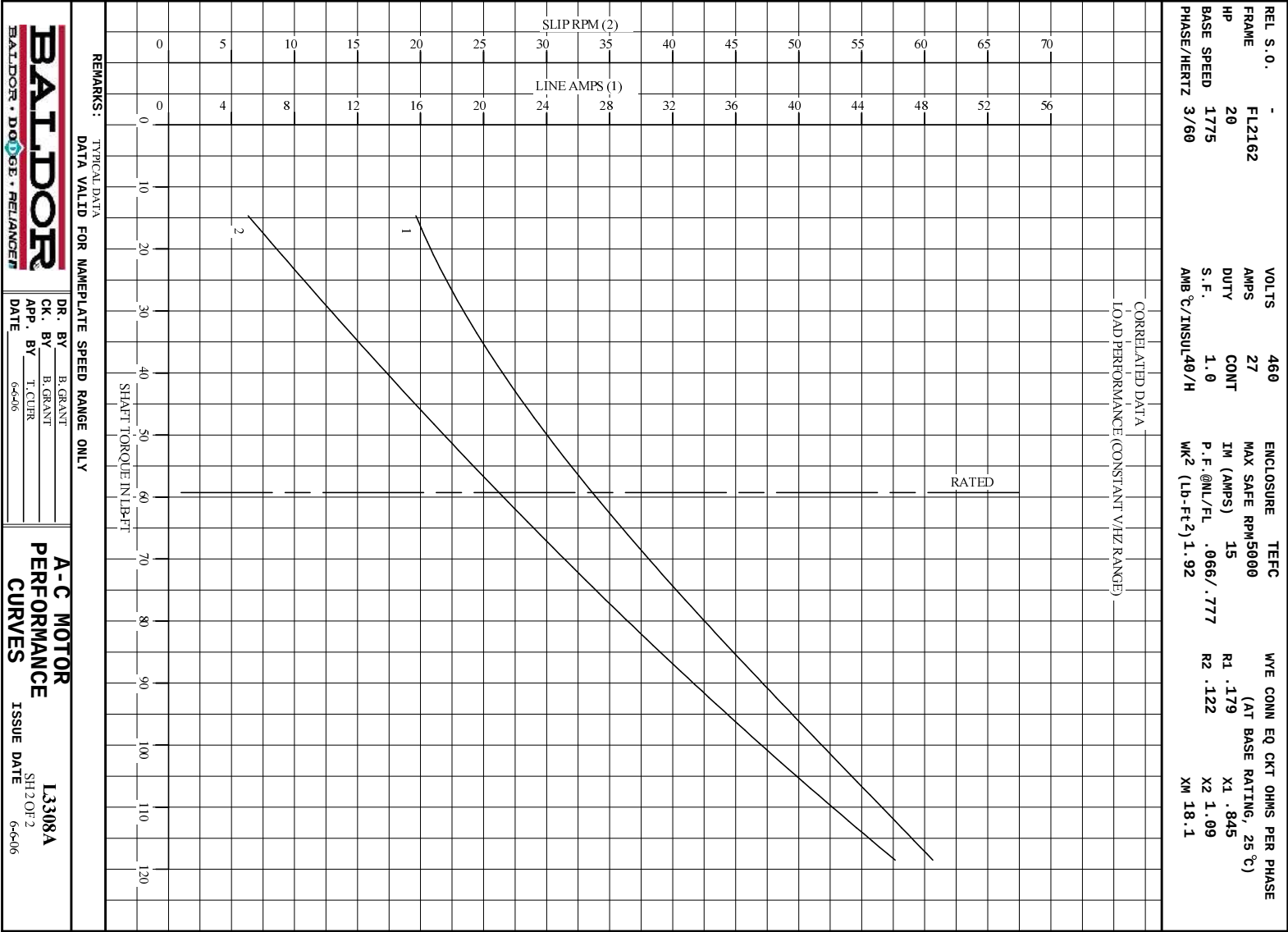
RATED FULL LOAD DATA						
	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
BASE SPEED	1774	20.0	59	460	60	26.9
MAX SPEED	3543	20.0	30	460	120	24.4
MIN SPEED	0	0	59	13.8	.874	26.9

LOAD PERFORMANCE AT BASE SPEED						
	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	1800	0	0	460	60	14.4
1/4	1794	5.01	15	460	60	15.7
1/2	1787	10.0	29	460	60	18.6
3/4	1781	15.0	44	460	60	22.4
FULL LOAD	1774	20.0	59	460	60	26.9
0/L	1742	39.3	119	460	60	48.5

BLOWER DATA						
	VOLTS	PH/HZ	FL AMPS	LR AMPS	FRAME	CFM
REMARKS: TYPICAL DATA CORRELATED DATA						

		DR. BY <u>B. GRANT</u> CK. BY <u>B. GRANT</u> App. BY <u>T. CUFR</u> DATE <u>6-6-06</u>	A-C MOTOR PERFORMANCE DATA L3308A ISSUE DATE <u>6-6-06</u>
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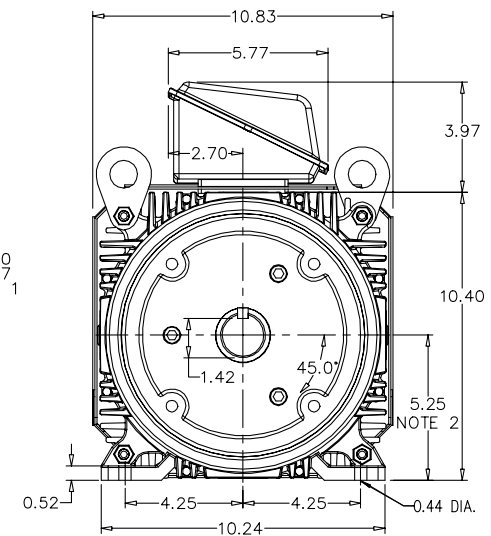
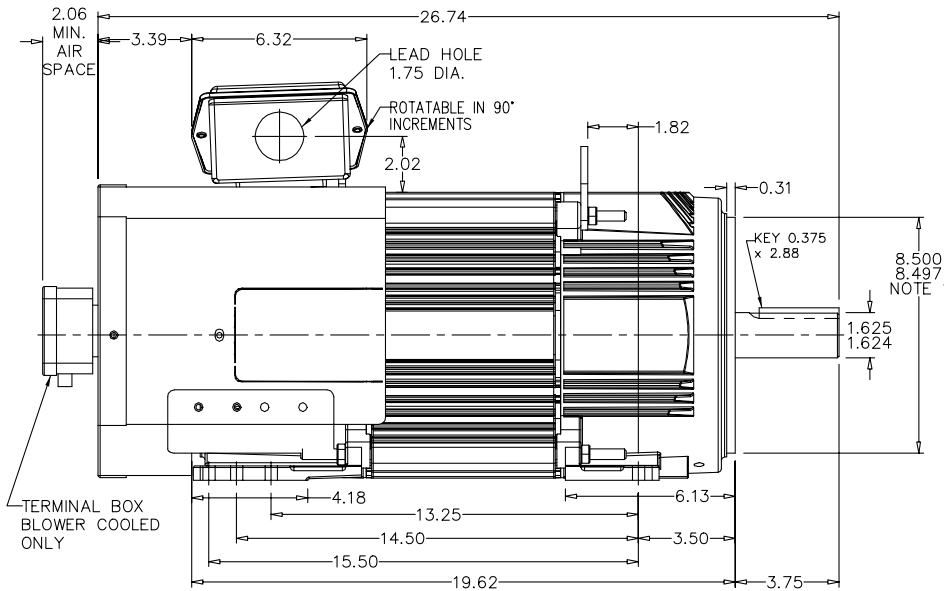


617517-023

RPM-AC FINNED FRAME VARIABLE SPEED ALTERNATING
CURRENT MOTOR
FL2162CZ

ENCLOSURE: TOTALLY ENCLOSED
MOUNTING: FOOT / NEMA 250TC C-FACE
DRIVE METHOD: COUPLED OR BELTED

COOLING: BLOWER COOLED or
FAN COOLED
ACCESSORIES: PROVISIONS FOR
TACHOMETER MOUNTING
ONLY WHEN SPECIFIED



NOTE 1: C-FACE & TACHOMETER MOUNTING
1/2-13 TAP, 1.00 DEEP, ON A 7.25 DIA. BOLT CIRCLE
FACE RUNOUT AND ECCENTRICITY 0.004 MAX. T.I.R.
NOTE 2: SHAFT HEIGHT WILL NOT BE EXCEEDED
SHIMS UP TO 0.03 INCHES IN THICKNESS ARE USUALLY
REQUIRED FOR COUPLED OR GREARED MACHINES

TERMINAL BOX MAY BE LOCATED F1 OR F2 IF SPECIFIED
61 AMP STEEL TERMINAL BOX SHOWN
REFER TO 616779-50 FOR SPECIFIED TERMINAL BOX DIMENSIONS
REFER TO 616779-55 FOR SPECIFIED TACHOMETER DIMENSIONS

MOTOR WEIGHT: 290 LBS. (MAY VARY 15%)
DIMENSIONS ARE IN INCHES SCALE: 1:00

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THIS PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

REV. DESC: CHANGE DE KEY LENGTH	VERSION: 02	TDR: 000001013340
REV. LTR: B	REVISED: 08:10:49 01/26/2017	BY: RGGWT
FILE: \RGG\00003\195		
MTL: -		

BALDOR

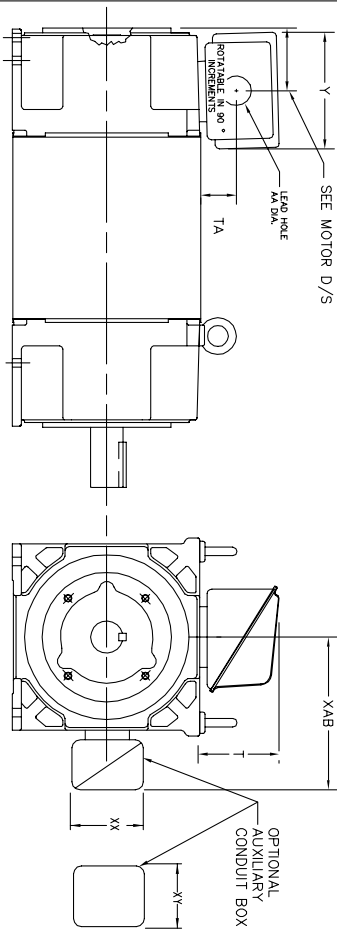
DIM SHT RPMAC TEFC/FC FL2162CZ FT MT PROV FOR TACH
SH 1 of 1

617517-023

616779-050

INDUSTRIAL ALTERNATING CURRENT MOTORS
RPM AC

STEEL, CAST IRON, MILL AND TERMINAL BOARD CONDUIT BOX DIMENSIONS
NEMA FRAMES RL210 thru RL280 and IEC FRAMES RDL132 thru RDL180
NEMA FRAMES FL180 thru FL280 and IEC FRAMES FDL112 thru FDL180



TERMINAL BOX	Y	TA	T	AA	MAX AMPS	REMARKS
706310-63B	14.39	7.43	12.15	--	400	TERMINAL STRIP
706310-226R	9.00	3.06	5.40	Pg36 & P416	160	TERMINAL STRIP
706310-225R	7.75	2.30	4.40	Pg29 & P416	100	TERMINAL STRIP
706310-56B	9.00	3.06	5.40	Pg36 & P416	160	TERMINAL STRIP
706310-56A	7.75	2.30	4.40	Pg29 & P416	100	TERMINAL STRIP
706320-14D	15.00	7.56	12.81	5	510	CAST IRON
706320-13A	10.50	4.88	9.00	4.0 TAP	210	CAST IRON
706320-12B	9.25	4.81	8.56	3	140	CAST IRON
75460-62B	7.25	2.50	5.25	1.5 TAP	110	CAST IRON
706320-4C	5.75	2.38	4.38	1.0 TAP	60	CAST IRON FL180 ONLY
706310-3E	16.00	4.40	7.81	3	590	MILL
706310-3X	8.00	2.38	5.00	--	160	MILL
702658-1C	14.62	7.56	12.70	5	500	STEEL
706320-16A	9.00	4.12	8.44	4.59	305	STEEL
706320-9A	7.25	3.50	7.06	2.50	160	STEEL
75454-1A1	7.69	2.38	5.25	1.94	121	STEEL
75452-B	6.34	2.00	4.12	1.75	61	STEEL
75452-G	6.34	2.00	4.12	--	61	SPECIAL
706320-5A	6.12	2.38	4.38	1.75/2.00	75	STEEL FL180 ONLY
706320-3A	5.00	1.62	3.00	1.12	40	STEEL FL180 ONLY
706320-7A	7.62	2.00	7.00	2.5/3.0	208	STEEL FL180 ONLY

OPTIMUM AUXILIARY CONDUIT BOX DIMENSIONS (MAXIMUM)									
FRAME SIZE	XAB	XX	XY	PART NUMBER	FRAME SIZE	XAB	XX	XY	PART NUMBER
FL210/FL132/RL210/RL132	7.38	4.25	4.25	602007-26-A	FL210/FL132/RL210/RL132	10.88	8.00	8.00	706310-3-B
FL280/FL180/RL280/RL180	8.44	4.25	4.25	602007-26-A	FL280/FL180/RL280/RL180	11.88	8.00	8.00	706310-3-B
FL280/FL180/RL280/RL180	9.12	4.25	4.25	602007-26-A	FL280/FL180/RL280/RL180	12.62	8.00	8.00	706310-3-B

- (1) "AA" CONDUIT.
(2) "AA" PIPE TAP.
(3) CUSTOMER TO PROVIDE HOLE FOR CONDUIT.
(4) E DN -3A, or 1" TAP DN -4C

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.

050-667919

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

REV. DESC: BOX # 706320-9A, CHANGE AA DIM FROM 2 TO 2.50	TDR: 000000785386
REV. ITR: C	VERSION: 03
FILE: RGG\00003\692	REVISED: 08:40:55 02/11/2013
MTL: -	BY: RGGWT

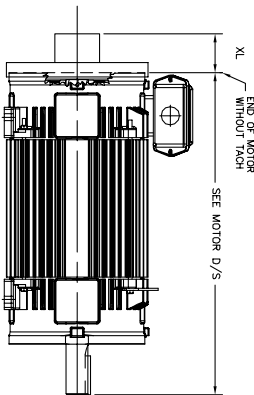
BALDOR
DIM SHT NEMA RL210-RL280 FL180-FL280 IEC RDL132-RDL180
SH 1 of 1

RPM AC TACHOMETER DIMENSIONS
NEMA FRAMES FL180 thru FL440 and IEC FRAMES FDL112 thru FDL280
DIMENSIONS ARE IN INCHES(mm)

DPFV, DPSV, TEPV, TESV, TENV & TEO-PB
IC06, IC17, IC37, IC410, & IC416-PB

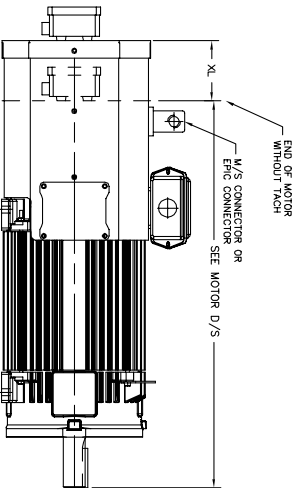
TACH MODEL	XL Inches(mm)	LBS.
BEI DE DYNAPAR HS35	2.88 (74)	5
DYNAPAR H20	7.50 (191) MAX	10
NORTHSTAR HS35M	3.31 (84)	10
NORTHSTAR ST67	2.88 (74)	5
DYNAPAR H56	10.56 (268)	40
AVTRON M3 DR M4	3.42 (88)	10
TAMAGAWA TS5013(X17)	6.00 (152)	10
NORTHSTAR ST56	2.88 (74)	5
NORTHSTAR ST85	2.00 (51)	5
BEI H880	10.17 (259)	15
TAMAGAWA TS2151	2.64 (67)	15
BEI H25	7.50 (191)	15
DYNAPAR H20	2.00 (50.8)	5
DYNAPAR H25	12.88 (327)	10
STEGMANN SPM25	7.25 (184.4)	10
NORTHSTAR HS135	3.00 (76.2)	10
HEIDENHAIN ERM425	2.5 (63.5)	5
AVTRON HS35M	4.19 (106.4)	5
HEIDENHAIN ERN480	5.00 (127.0)	5
DYNAPAR H125	7.00 (177.8)	10
DYNAPAR H22	3.42 (88.1)	5
AVTRON H255	2.54 (64.5)	9
AVTRON AV950	2.54 (64.5)	9
AVTRON AV56	4.50 (115)	15
HS138	3.30 (84)	5
HS125	3.30 (84)	2
NORTHSTAR RT8	3.25 (83)	15
DYNAPAR H4625	5.88 (150)	10
AVTRON AV485	5.50 (141)	18

* THIS DIMENSION INCLUDES COVER FOR X/T MOTOR.



TEAO-BC, IC416-BC

TACH MODEL	XL Inches(mm)	LBS.
BEI DE DYNAPAR HS35	4.50 (115)	15
DYNAPAR H20	4.50 (115)	10
AVTRON M3 DR M4	4.50 (115)	10
NORTHSTAR HS35M	4.50 (115)	15
NORTHSTAR ST56	4.50 (115)	10
NORTHSTAR ST67	4.50 (115)	10
NORTHSTAR ST85	4.50 (115)	5
TAMAGAWA TS5008 TS5013	4.50 (115)	10
DYNAPAR H20	4.50 (115)	15
STEGMANN SPM25	4.50 (115)	10
STEGMANN SRS/SPH50	4.50 (115)	3
STEGMANN SRS50	4.50 (115)	15
H20 & H25	4.50 (115)	15
AVTRON HS35M	4.50 (115)	10
AVTRON AV95	4.50 (115)	5
AVTRON M56	4.50 (115)	10
AVTRON AV67	4.50 (115)	5
HS138	4.50 (115)	5
TS2014	4.50 (115)	10
AVTRON HS45	4.50 (115)	15
DYNAPAR HS138M	4.50 (115)	15



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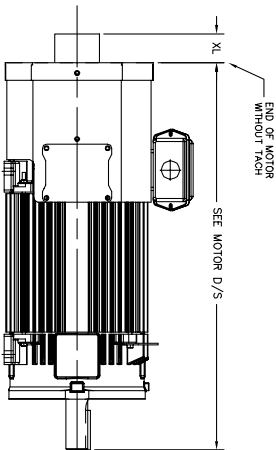
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REV. LTR: U	VERSION: 19
FILE: \RGG\00003\694	REVISED: 08:00:14 03/06/2015
MTL: -	BY: RGGWT

BALDOR

DIM SHT TACH DIM NEMA FL180 - FL440 IEC FDL112 - FDL280
SH 1 of 1

TACH MODEL	XL Inches(mm)	LBS.
BEI HS35	2.88 (74)	7
NORTHSTAR HS35M	3.31 (84)	10
DYNAPAR H20	3.75 (95)	15
DYNAPAR HS35, HS138	2.88 (74)	7
H20(X17)	9.75 (248)	35
ERM425	7.90 (201)	35
AVTRON HS35M	4.19 (106)	2
STEGMANN SPM50	3.75 (95)	1
DYNAPAR H20	2.00 (51)	1
NORTHSTAR HS135	2.81 (71)	2
NORTHSTAR HS138	3.30 (84)	5

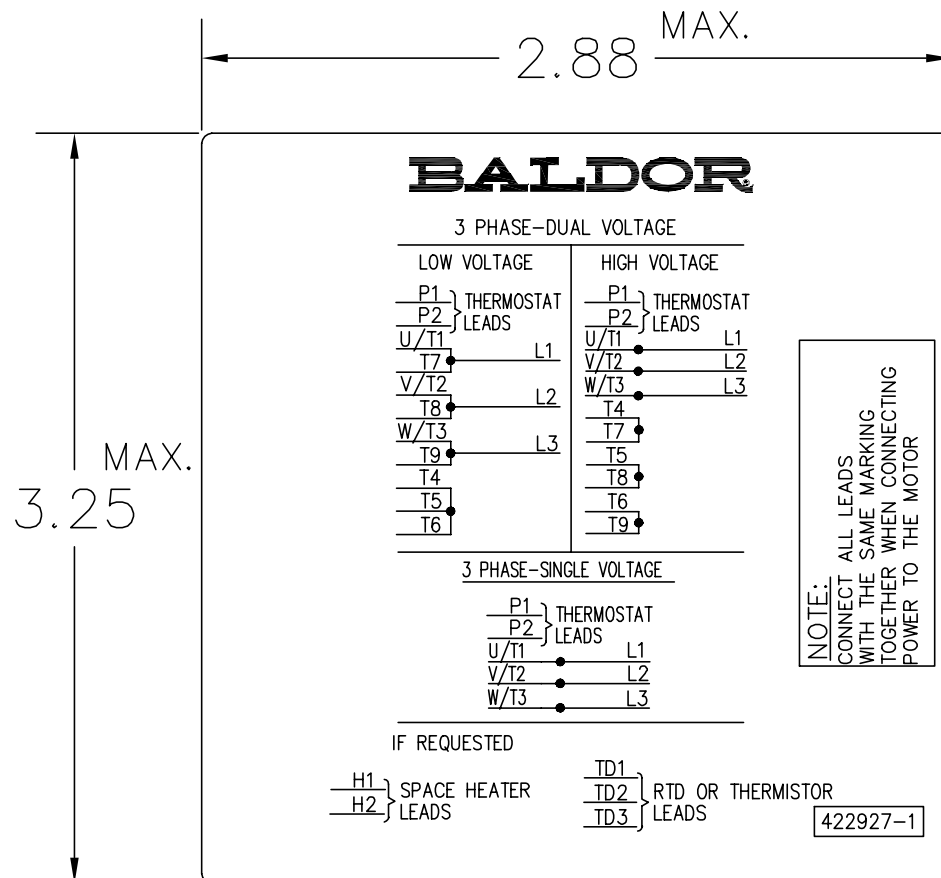
TEFC, IC411



950-667919

616779-055

422927-001



NOTE:
DATA TO BE SIZED
SO THAT IT FITS INTO
MATERIAL DECAL
DIMENSIONS. MAKE
LETTERS & NUMBERS
AS LARGE AS POSSIBLE.

MATERIAL: CERAMATIC DGF-P4
PERMA GRIP ADHESIVE

ALL LETTERS, NUMBERS
AND LINES TO BE BLACK
ON WHITE BACKGROUND.

NOTE:
CONNECT
WITH THE
TOGETHER
POWER TO

422927-1

422927-001

REV. DESC: CHANGE BACKGROUND COLOR FROM GOLD TO WHITE		
REV. LTR: B	VERSION: 02	TDR: 000000788708
FILE: \RGG\00000\203		REVISED: 08:09:29 03/04/2013
MTL: -		BY: RGGWT

BALDOR

EXTERNAL CONNECTION LABEL

SH 1 of 1