

BALDOR® • **RELIANCE**

Product Information Packet

ZDBRPM21304C

30HP, 1750RPM, 3PH, 60HZ, 2162C, TEBC, FOOT

Part Detail							
Revision:	A	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	L3310A	CD Diagram:	422927-001	Mfg Plant:	
Mech. Spec:		Layout:	617517-363	Poles:	04	Created Date:	04-10-2015
Base:		Eff. Date:	08-27-2015	Leads:			

Specs			
Catalog Number:	ZDBRPM21304C		
Enclosure:	TEAO		
Frame:	FL2162C		
Frame Material:	Exposed Laminations		
Output @ Frequency:	30.000 HP @ 60 HZ		
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ		
Voltage @ Frequency:	460.0 V @ 60 HZ		
Agency Approvals:	CCSA US		
Auxillary Box:	No Auxillary Box		
Base Indicator:	Rigid		
Bearing Grease Type:	No Grease		
Current @ Voltage:	40.000 A @ 460.0 V		
Duty Rating:	CONT		
Feedback Device:	TACHOMETER		
Frame Prefix:	FL		
Heater Indicator:	No Heater		
Insulation Class:	H		
Mounting Arrangement:	TP		

Product Family:	General Industrial		
Pulley End Bearing Type:	Ball		
Pulley Face Code:	C-Face		
Shaft Ground Indicator:	No Shaft Grounding		
Shaft Rotation:	Reversible		
Motor Standards:	NEMA		
Thermal Device - Bearing:	None		
Thermal Device - Winding:	Normally Closed Thermostat		

Nameplate 000613006NS																																	
	<table border="1"> <thead> <tr> <th>DUTY</th> <th>HP</th> <th>RPM</th> <th>AMPS</th> <th>VOLTS</th> <th>HZ</th> </tr> </thead> <tbody> <tr> <td>CONT</td> <td>30</td> <td>1765</td> <td>40</td> <td>460</td> <td>60</td> </tr> <tr> <td>CONT</td> <td>30</td> <td>3525</td> <td>37</td> <td>460</td> <td>120</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	DUTY	HP	RPM	AMPS	VOLTS	HZ	CONT	30	1765	40	460	60	CONT	30	3525	37	460	120														
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REL. S.O. - VOLTS 460 ENCLOSURE TEBC WYE CONN EQ CKT OHMS PER PHASE
 FRAME FL2162 AMPS 40 MAX SAFE RPM 5000 (AT BASE RATING, 25 °C)
 HP 30 DUTY CONT 1M (AMPS) 20 R1 .157 X1 .701
 BASE SPEED 1765 S.F. 1.0 P.F.@NL/FL .064/.797 R2 .102 X2 .791
 PHASE/HERTZ 3/60 AMB °C/INSUL 40/H MK² (LB-FT²) 1.92 XM 13.4

RATED FULL LOAD DATA

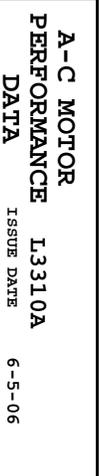
	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
BASE SPEED	1766	30.0	89	460	60	39.6
MAX SPEED	3523	30.0	45	460	120	37.1
MIN SPEED	0	0	89	18.1	1.14	39.6

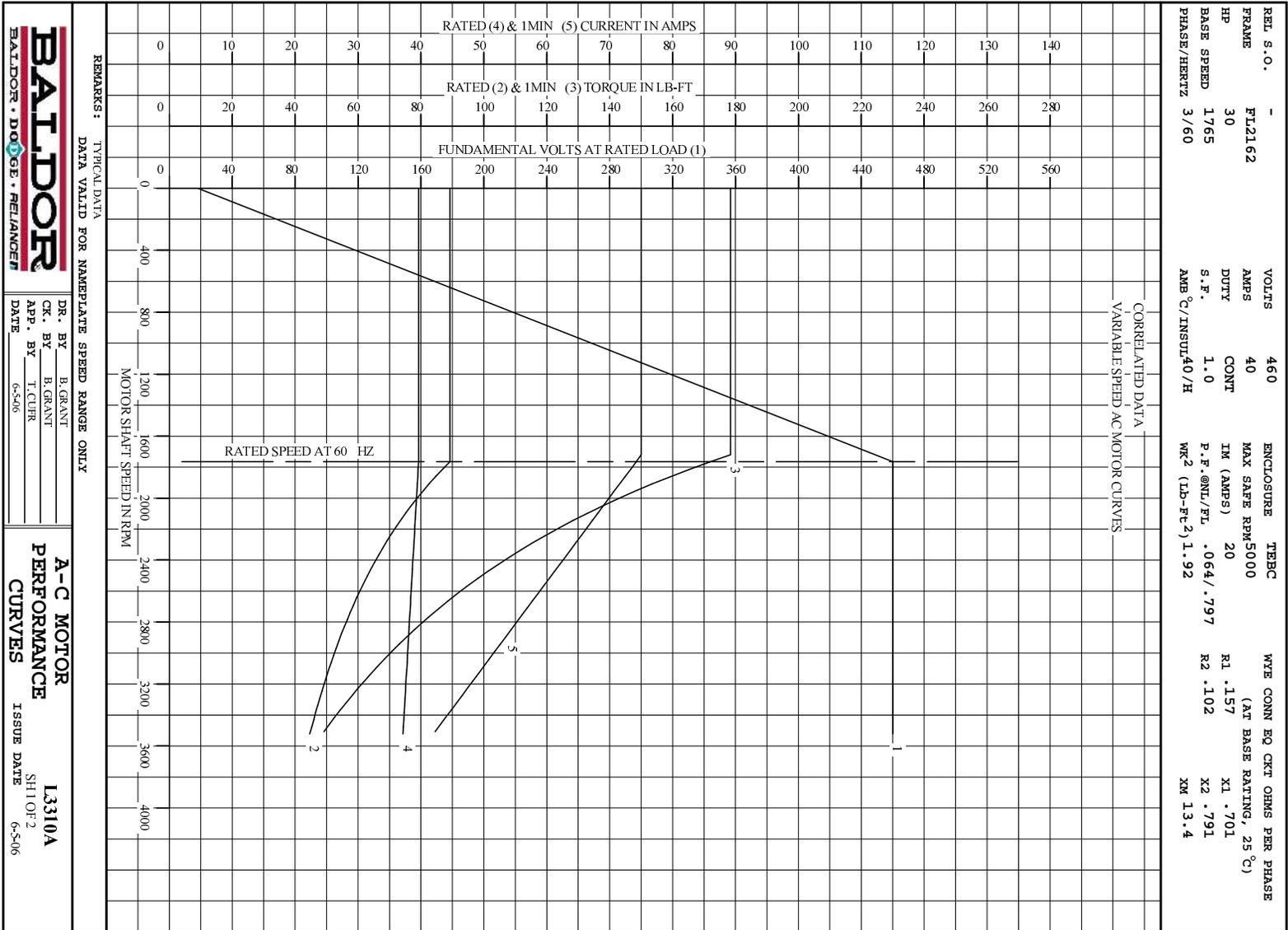
LOAD PERFORMANCE AT BASE SPEED

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	1800	0	0	460	60	19.8
1/4	1792	7.52	22	460	60	22.1
1/2	1784	15.0	44	460	60	26.3
3/4	1775	22.5	67	460	60	32.3
FULL LOAD	1766	30.0	89	460	60	39.6
O/L	1721	58.5	178	460	60	75.0

BLOWER DATA	VOLTS	PH/HZ	FL AMPS	LR AMPS	FRAME	CFM

REMARKS: TYPICAL DATA
CORRELATED DATA

	DR. BY B. GRANT	
	CK. BY T. CUER	
APP. BY 6-5-06	DATE 6-5-06	ISSUE DATE 6-5-06

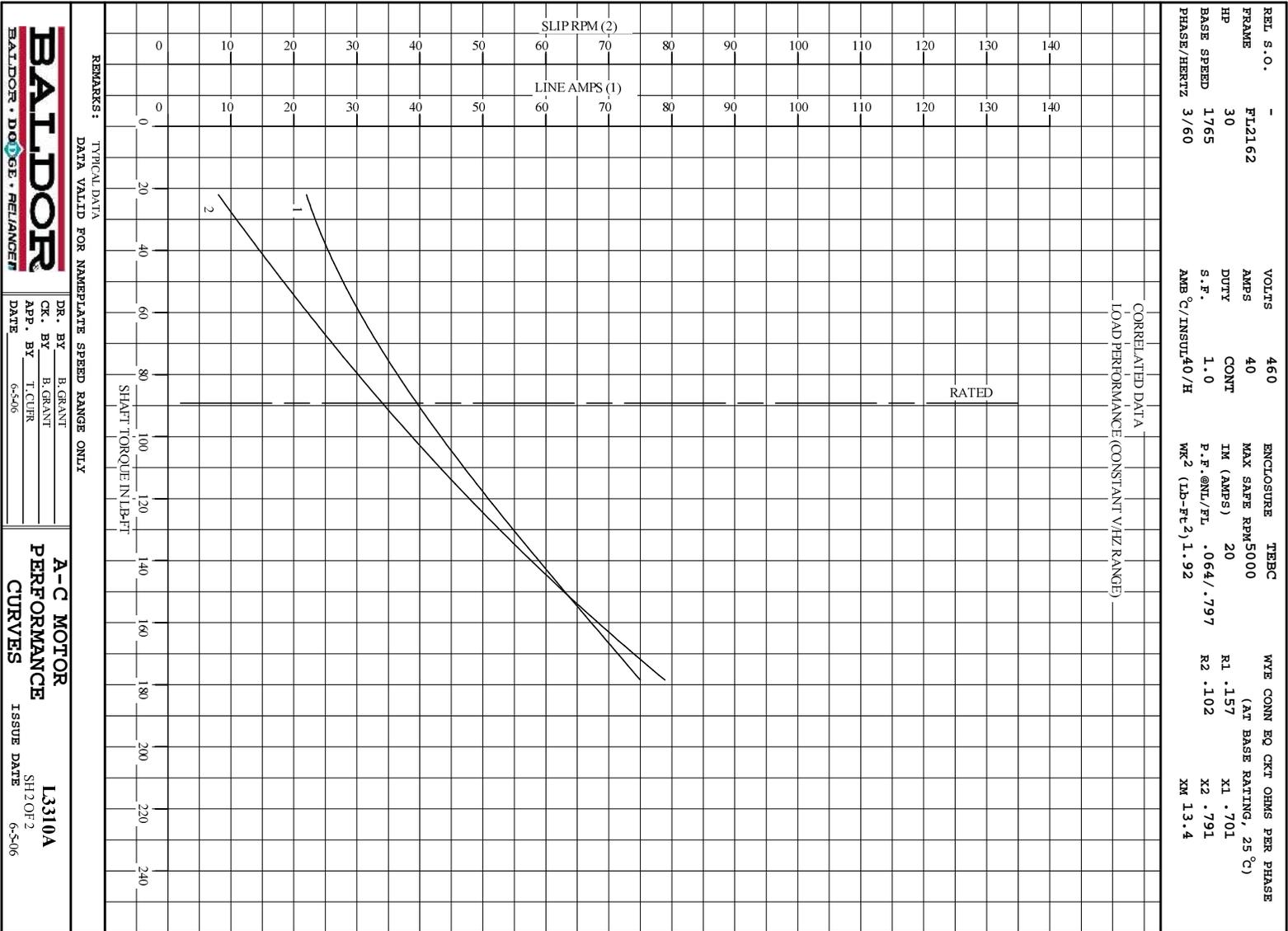


BALDOR
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DR. BY B. GRANT
CK. BY B. GRANT
APP. BY T. CURR
DATE 6-5-06

A-C MOTOR
PERFORMANCE
CURVES ISSUE DATE 6-5-06
L3310A
SH 1 OF 2

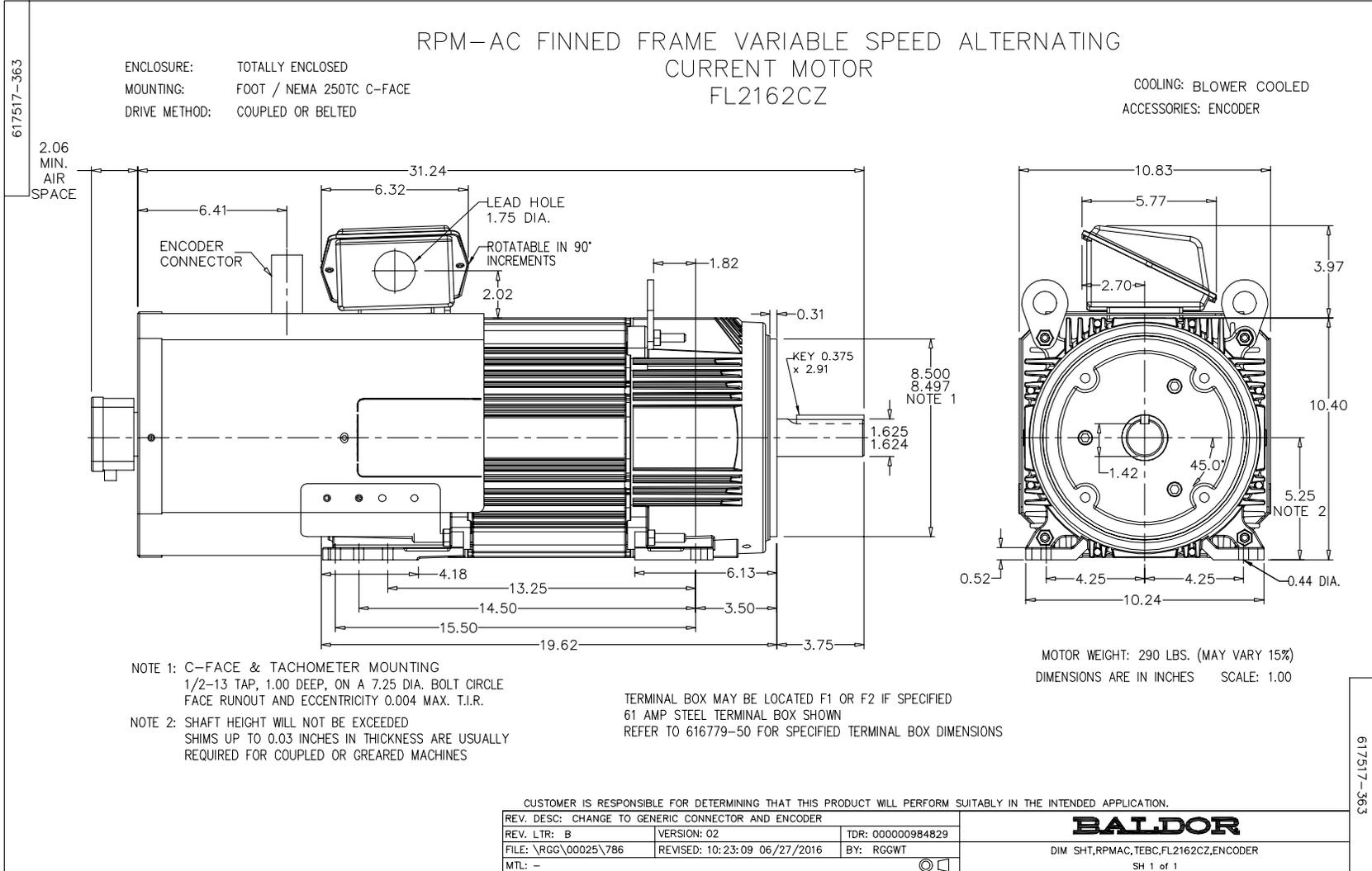
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DR. BY B. GRANT
CK. BY B. GRANT
APP. BY T. CURR
DATE 6-5-06

A-C MOTOR
PERFORMANCE
CURVES
ISSUE DATE 6-5-06
L3310A
SH20F2

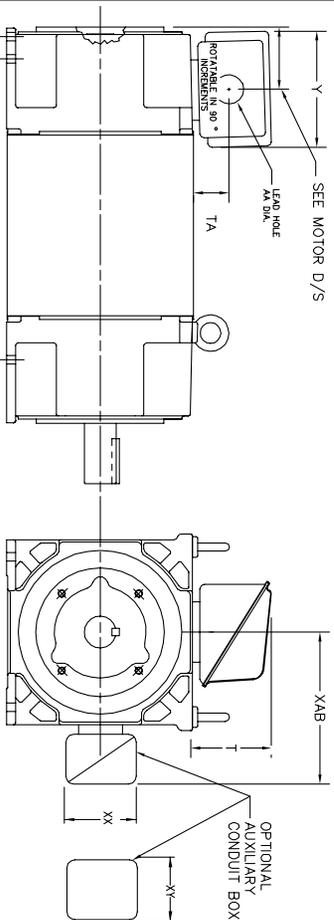


616779-050

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



FRAME	TYPE	TERMINAL STRIP	AMPS	C/BOX	Y	TA	T	AA
FL180	STEEL	N	40	706320003A	5.00	1.62	3.00	1.12
FL180	STEEL	Y/N	7/8	706320005A	6.12	2.38	4.38	1.75/2.00
FL180	STEEL	N	208	706320007A	7.62	2.00	7.00	2.50/3.00
FL180	CAST IRON	Y/N	60	706320004C	5.75	2.38	4.38	1.0 TAP
FL180 & FDL11	MILL	Y	100	706310056A	7.75	2.30	4.40	PG29/PG16

FL210 & RL210	STEEL	N	61	0754520008	6.34	2.00	4.12	1.75
FL210 & RL210	STEEL	N	121	075454001AJ	7.69	2.38	5.25	1.94
FL210 & RL210	STEEL	N	305	706320016A	9.00	4.12	8.44	4.59
FL210 & RL210	CAST IRON	N	110	0754600628	7.25	2.50	5.25	1.5 TAP
FL210 & RL210	CAST IRON	N	110	0754600628	7.25	2.50	5.25	1.5 TAP
FL210 & RL210	MILL	Y	100	706310056A	7.75	2.30	4.40	PG29/PG16
FL210 & RL210	MILL	Y	160	706310056B	9.00	3.06	5.40	PG36/PG16
FDL13 & RDL13	MILL	Y	160	706310056B	9.00	3.06	5.40	PG36/PG16

FL250 & RL250	STEEL	N	61	0754520008	6.34	2.00	4.12	1.75
FL250 & RL250	STEEL	N	121	075454001AJ	7.69	2.38	5.25	1.94
FL250 & RL250	STEEL	N	305	706320016A	9.00	4.12	8.44	4.59
FL250 & RL250	CAST IRON	N	110	0754600628	7.25	2.50	5.25	1.5 TAP
FL250 & RL250	CAST IRON	N	210	706320013A	10.50	4.88	9.00	4.0 TAP
FL250 & RL250	CAST IRON	N	210	706320013A	10.50	4.88	9.00	4.0 TAP
FL250 & RL250	CAST IRON	N	510	706320014D	15.00	7.56	12.81	5.0 TAP
FL250 & RL250	MILL	Y	100	706310056A	7.75	2.30	4.40	PG29/PG16
FL250 & RL250	MILL	Y	160	706310056B	9.00	3.06	5.40	PG36/PG16
FL250 & RL250	MILL	Y	400	7063100638	14.39	7.43	12.15	BLANK

FL280 & RL280	STEEL	N	160	706320009A	7.25	3.50	7.06	2.50
FL280 & RL280	STEEL	N	305	706320016A	9.00	4.12	8.44	4.59
FL280 & RL280	STEEL	N	500	702658001C	14.62	7.56	12.70	5.00
FL280 & RL280	CAST IRON	N	140	7063200128	9.25	4.81	8.58	3.0 TAP
FL280 & RL280	CAST IRON	N	210	706320013A	10.50	4.88	9.00	4.0 TAP
FL280 & RL280	CAST IRON	N	510	706320014D	15.00	7.56	12.81	5.0 TAP
FL280 & RL280	MILL	Y	100	706310056A	7.75	2.30	4.40	PG29/PG16
FL280 & RL280	MILL	Y	160	706310056B	9.00	3.06	5.40	PG36/PG16
FL280 & RL280	MILL	Y	400	7063100638	14.39	7.43	12.15	BLANK

FRAME SIZE	XAB	OPTIMAL AUXILIARY CONDUIT BOX DIMENSIONS (MAXIMUM)							
		XX	XY	PART NUMBER					
FL180/FL180/RL210/RL132	7.38	4.25	4.25	603C007-26-A	FL180/FL180/RL210/RL132	10.88	8.00	8.00	706310-3-B
FL180/FL180/RL250/RL160	8.44	4.25	4.25	603C007-26-A	FL180/FL180/RL250/RL160	11.88	8.00	8.00	706310-3-B
FL280/FL180/RL280/RL180	9.12	4.25	4.25	603C007-26-A	FL280/FL180/RL280/RL180	12.62	8.00	8.00	706310-3-B

- (1) TAP CONDUIT
- (2) TAP PIPE TAP
- (3) CUSTOMER TO PROVIDE HOLE FOR CONDUIT.
- (4) 2" DN -5A or 1" TAP DN -4C

TERMINAL BOX CAN BE REPIATED FOR LEAD OUTLET AT TOP SIDES OR BOTTOM TERMINAL BOX CAN BE REPIATED FOR LEAD OUTLET AT TOP SIDES OR BOTTOM OF 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: REPLACE CONDUIT BOX TABLE	VERSION: 04	TDR: 00001047838
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BALDOR

DIM SHT NEMA RL210-RL280 FL180-FL280 IEC RDL132-RDL180

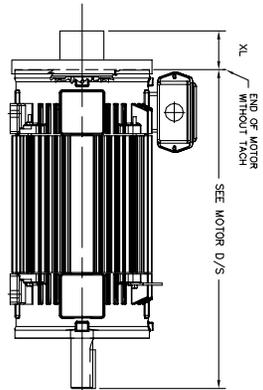
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RPM AC TACHOMETER DIMENSIONS
 NEMA FRAMES FL180 thru FL440 and IEC FRAMES FDL112 thru FDL280
 DIMENSIONS ARE IN INCHES(mm)

DPRV, DPSV, TEPV, TESV, TENV & TEAO-PB
 IC06, IC17, IC37, IC410, & IC416-PB

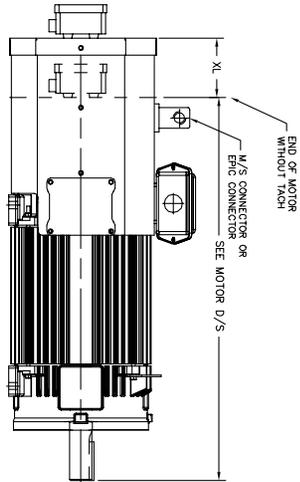
616779-055

TACH MODEL	XL Inche(stmm)	LBS.
BEI PR DYNAPAR H335	2.88 (74)	5
DYNAPAR H20 *	7.50(191)MAX	10
NORTHSTAR H335M	3.31 (84)	10
NORTHSTAR ST67	2.88 (74)	5
DYNAPAR H36	10.56 (268)	40
AVTRON M3 PR M4	3.62 (.92)	10
TAMAGAWA T5S013(X1)	6.00 (152)	10
NORTHSTAR ST65	2.88 (74)	5
NORTHSTAR ST85	2.00 (.51)	5
BEI H38B	10.19 (259)	15
TAMAGAWA T32151	2.64 (67)	15
BEI H35	7.50 (191)	15
DYNAPAR H320	2.00 (.50)	5
DYNAPAR X23	12.88 (327)	10
STIEGMANN SRK25	7.25 (184.4)	10
NORTHSTAR H3035	3.00 (.76)	10
HEIDENHAIN EGN425	2.5 (63.5)	5
AVTRON H335M	4.19 (106.4)	5
HEIDENHAIN ERN480	5.00 (76.2)	5
DYNAPAR H025	7.00 (177.8)	10
DYNAPAR H22	3.62 (92.1)	5
AVTRON H285	2.54 (64.5)	9
AVTRON A1850	2.54 (64.5)	9
AVTRON A156	4.50 (115)	15
HS1258	3.30 (84)	5
HS1258	3.30 (84)	5
NORTHSTAR P18	3.25 (83)	15
DYNAPAR H4625	5.88 (150)	10
AVTRON A1495	9.50 (241)	18
AVTRON A1532	1.93 (49)	.7

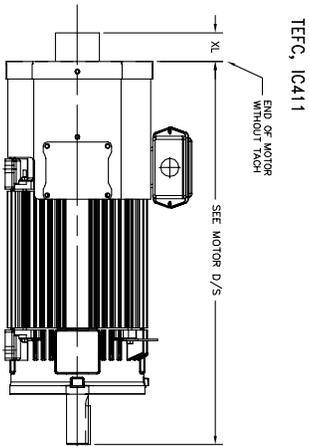


TEAO-BC, IC416-BC
 EXCLUDES NEMA FRAMES FL320 THRU FL440
 AND
 IEC FRAMES FDL200 THRU FDL280

TACH MODEL	XL Inche(stmm)	LBS.
BEI PR DYNAPAR H335	4.50 (115)	10
DYNAPAR H20	4.50 (115)	15
AVTRON M3 PR M4	4.50 (115)	10
NORTHSTAR H335M	4.50 (115)	15
NORTHSTAR ST65	4.50 (115)	10
NORTHSTAR ST67	4.50 (115)	10
NORTHSTAR ST85	4.50 (115)	5
TAMAGAWA T5S008, T5S013	4.50 (115)	10
DYNAPAR H320	4.50 (115)	15
STIEGMANN SRK25	4.50 (115)	10
STIEGMANN SRK/SR150	4.50 (115)	3
STIEGMANN SR350	4.50 (115)	15
H250 & H252	4.50 (115)	15
AVTRON H335M	4.50 (115)	10
AVTRON A185	4.50 (115)	10
AVTRON H35	4.50 (115)	5
AVTRON H367	4.50 (115)	10
HS1258	4.50 (115)	5
TS2014	4.50 (115)	10
AVTRON H345	4.50 (115)	15
DYNAPAR H3038M	4.50 (115)	15
AVTRON A1532	4.50 (115)	.7



TACH MODEL	XL Inche(stmm)	LBS.
BEI H335	2.88 (74)	7
NORTHSTAR H335M	3.31 (84)	10
DYNAPAR H20	3.75 (95)	15
DYNAPAR H335, H3038	2.88 (74)	7
H02XTD	9.75 (248)	35
EMAS	7.90 (201)	35
AVTRON H335M	4.19 (106)	2
STIEGMANN SRK20	3.75 (95)	1
DYNAPAR H320	2.00 (.51)	1
NORTHSTAR H3035	2.81 (71)	2
NORTHSTAR H3038	3.30 (84)	5
AVTRON A1532	1.93 (49)	.7



950-671919

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

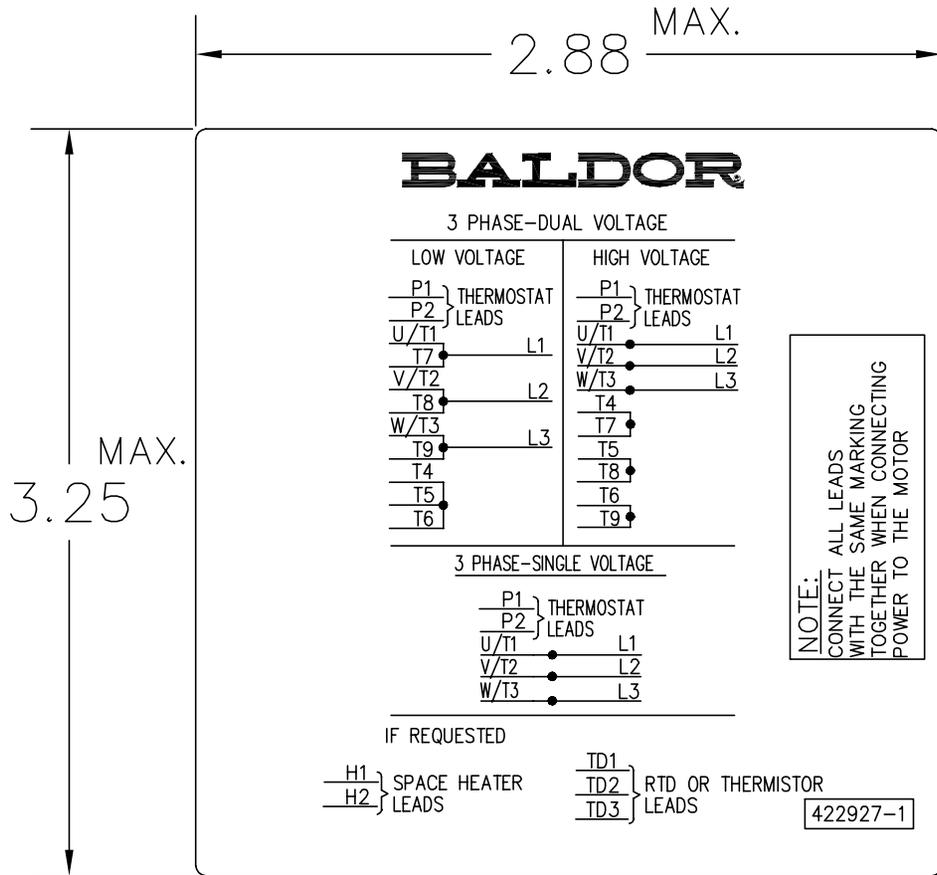
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FILE: \RGG\00003\694		
MTL: -		

BALDOR

DIM SHT TACH DIM NEMA FL180 - FL440 IEC FDL112 - FDL280

SH 1 of 1

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.

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	
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BALDOR

EXTERNAL CONNECTION LABEL

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