

BALDOR® • *RELIANCE*

Product Information Packet

ZDBRPM25504

50HP, 1750RPM, 3PH, 60HZ, 2570, TEBC, FOOT

Part Detail							
Revision:	A	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	L3380A	CD Diagram:	422927-001	Mfg Plant:	
Mech. Spec:		Layout:	617573-342	Poles:	04	Created Date:	04-10-2015
Base:		Eff. Date:	08-27-2015	Leads:			

Specs			
Catalog Number:	ZDBRPM25504		
Enclosure:	TEAO		
Frame:	FL2570Z		
Frame Material:	Exposed Laminations		
Output @ Frequency:	50.000 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:	65.000 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:	Standard		
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>50</td> <td>1775</td> <td>65</td> <td>460</td> <td>60</td> </tr> <tr> <td>CONT</td> <td>50</td> <td>3545</td> <td>60</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	50	1775	65	460	60	CONT	50	3545	60	460	120												
DUTY	HP	RPM	AMPS	VOLTS	HZ																										
CONT	50	1775	65	460	60																										
CONT	50	3545	60	460	120																										
CAT.NO.	ZDBRPM25504																														
SER.NO.																															
PH.	3																														
DESIGN NO.	L3380A																														
S.F.	1.0																														
ENCL MOD																															
	<table border="1"> <tbody> <tr> <td>FR</td> <td>FL 2570Z</td> <td>SPEC. NO.</td> <td>P25T0313</td> </tr> <tr> <td>MAX SAFE SPEED</td> <td>5000</td> <td>INSUL</td> <td>H</td> </tr> <tr> <td>TYPE</td> <td></td> <td>AMB.</td> <td>40</td> </tr> <tr> <td>D.E. BRG.</td> <td>65BC03JPP30A</td> <td>ENCL.</td> <td>TEAO-BC</td> </tr> <tr> <td>O.D.E. BRG.</td> <td>50BC03JPP30A</td> <td></td> <td></td> </tr> </tbody> </table>	FR	FL 2570Z	SPEC. NO.	P25T0313	MAX SAFE SPEED	5000	INSUL	H	TYPE		AMB.	40	D.E. BRG.	65BC03JPP30A	ENCL.	TEAO-BC	O.D.E. BRG.	50BC03JPP30A												
FR	FL 2570Z	SPEC. NO.	P25T0313																												
MAX SAFE SPEED	5000	INSUL	H																												
TYPE		AMB.	40																												
D.E. BRG.	65BC03JPP30A	ENCL.	TEAO-BC																												
O.D.E. BRG.	50BC03JPP30A																														
	MIN. AMB. -25																														

REL. S.O.	-	VOLTS	460	ENCLOSURE	TEBC	WYE CONN EQ CKT OHMS PER PHASE (AT BASE RATING, 25 °C)
FRAME	FL2570	AMPS	65	MAX SAFE RPM	5000	
HP	50	DUTY	CONT	IM (AMPS)	34	R1 .0778 X1 .380
BASE SPEED	1775	S.F.	1.0	P.F.@NL/FL	.049/.795	R2 .0486 X2 .480
PHASE/HERTZ	3/60	AMB °C/INSUL	40/H	WK ² (LB-FT ²)	3.84	XM 8.13

RATED FULL LOAD DATA

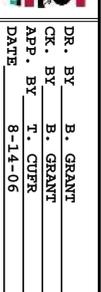
	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
BASE SPEED	1774	50.0	148	460	60	65.1
MAX SPEED	3542	50.0	74	460	120	59.8
MIN SPEED	0	0	148	14.6	.875	65.1

LOAD PERFORMANCE AT BASE SPEED

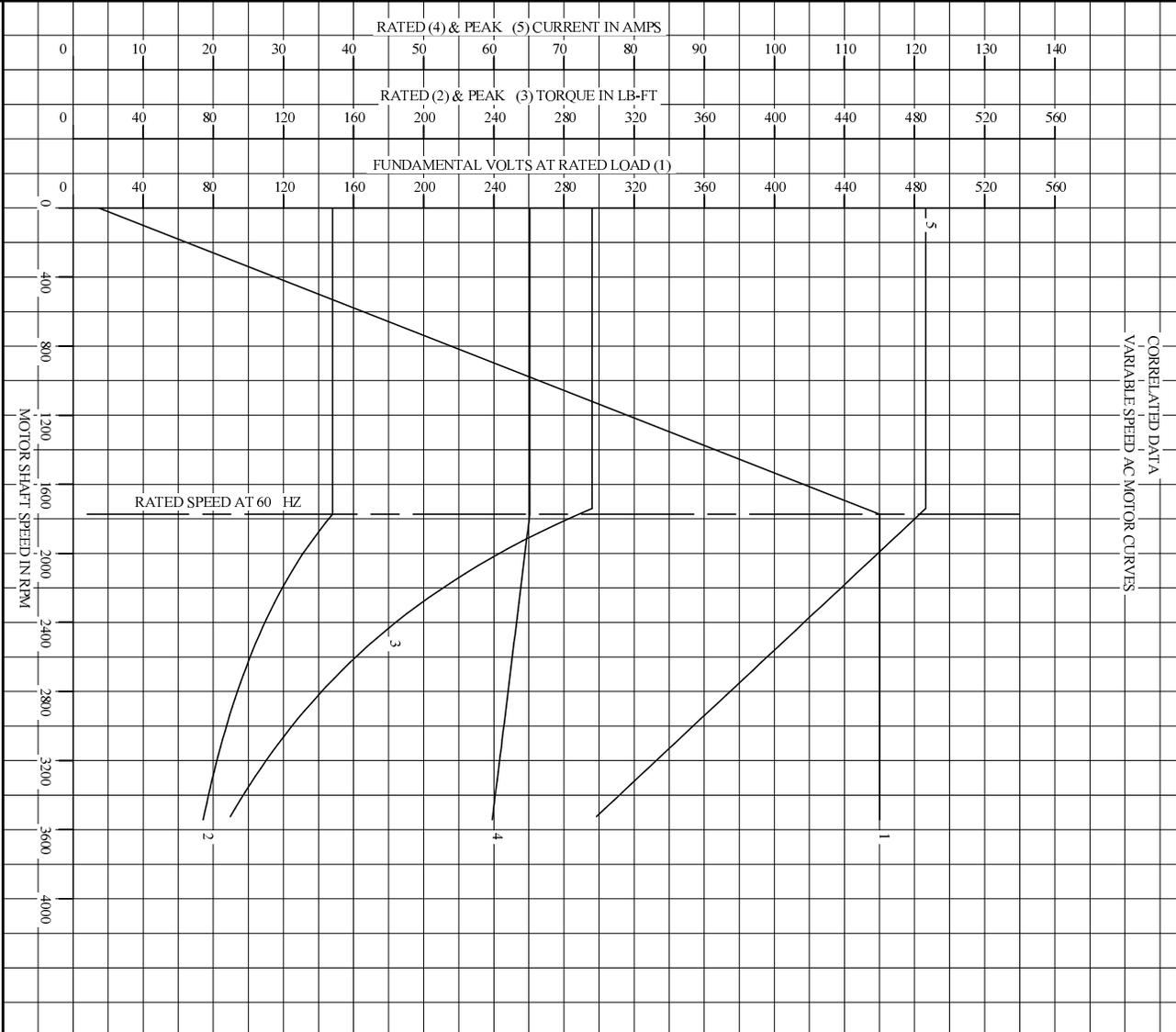
	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	1800	0	0	460	60	33.0
1/4	1794	12.5	37	460	60	36.0
1/2	1787	25.0	74	460	60	43.4
3/4	1781	37.5	111	460	60	53.4
FULL LOAD	1774	50.0	148	460	60	65.1
O/L	1741	98.1	296	460	60	122

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

REMARKS: TYPICAL DATA
CORRELATED DATA

	DR. BY	B. GRANT	A-C MOTOR PERFORMANCE DATA
	CK. BY	T. CUER	
	APP. BY	8-14-06	
		L3380A ISSUE DATE 8-14-06	

REL S.O.	-	VOLTS	460	ENCLOSURE	TEBC	WYE CONN EQ CKT OHMS PER PHASE
FRAME	FL2570	AMPS	65	MAX SAFE RPM	5000	(AT BASE RATING, 25°C)
HP	50	DUTY	CONT	IM (AMPS)	34	X1 .380
BASE SPEED	1775	S.F.	1.0	P.F.@NL/FL	.049/.795	R2 .0486 X2 .480
PHASE/HERTZ	3/60	AMB C/INSUL	40/H	WK ² (LB-FT ²)	3.84	XM 8.13

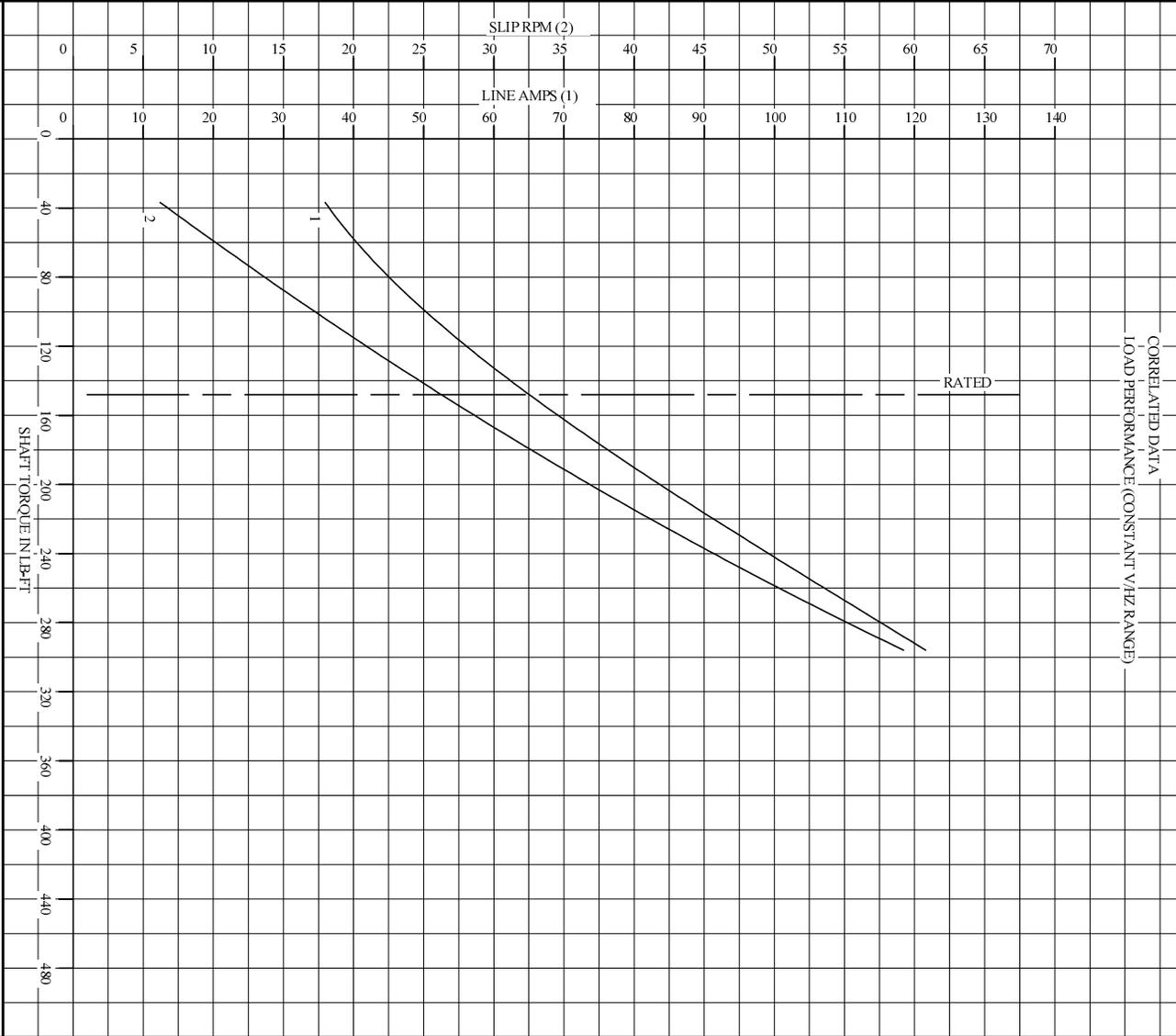


REMARKS: TYPICAL DATA
DATA VALID FOR NAMEPLATE SPEED RANGE ONLY

BALDOR BALDOR • DOUGLASS • RELIANCE	DR. BY	B. GRANT	A-C MOTOR PERFORMANCE CURVES	L3380A SH 1 OF 2 ISSUE DATE 8-14-06
	CK. BY	B. GRANT		
	APP. BY	T. CURR		
	DATE	8-14-06		

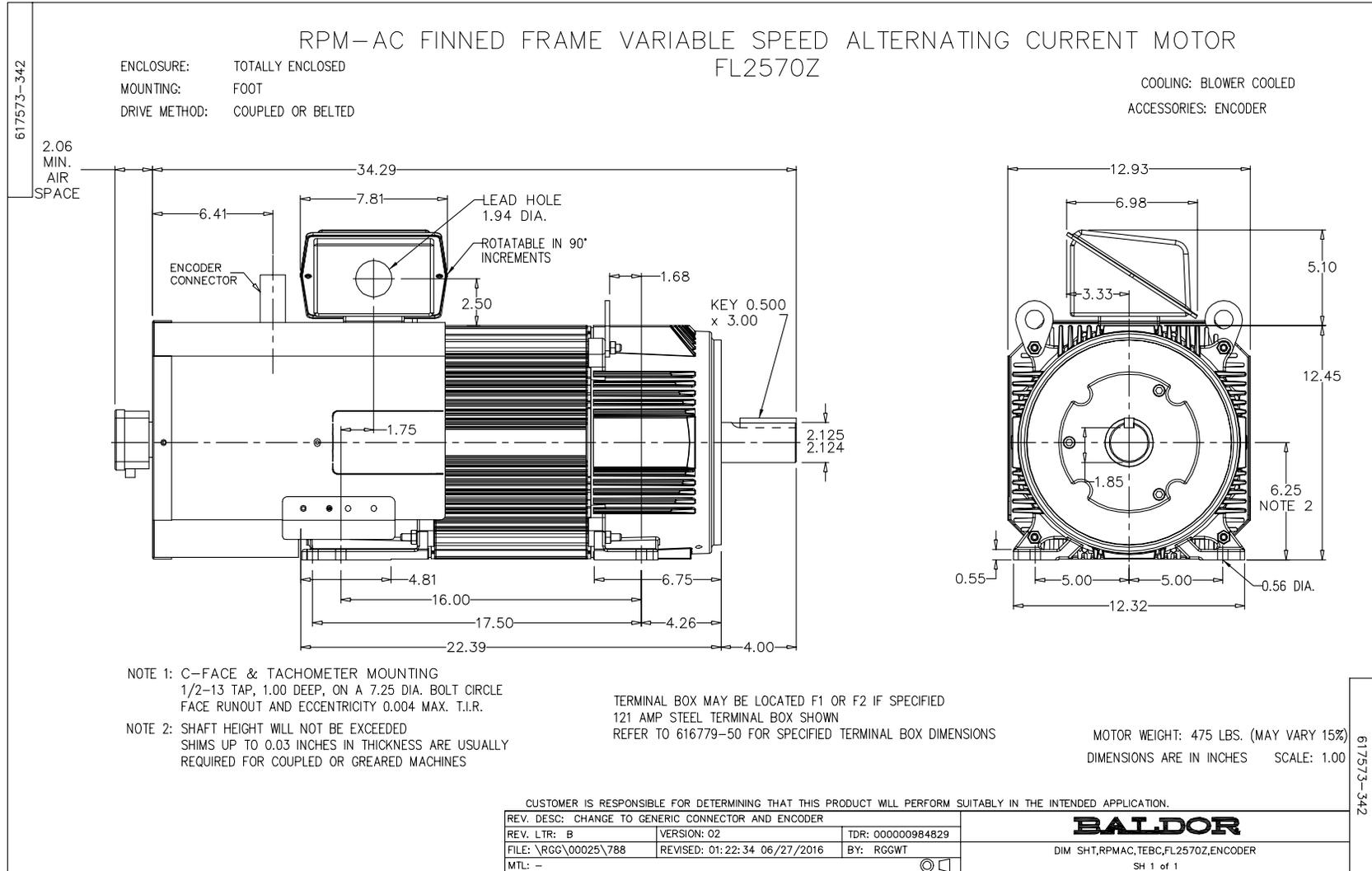
1

REL S.O.	-	VOLTS	460	ENCLOSURE	TEBC	WYE CONN EQ CKT OHMS PER PHASE (AT BASE RATING, 25°C)
FRAME	FL2570	AMPS	65	MAX SAFE RPM	5000	X1 .380
HP	50	DUTY	CONT	IM (AMPS)	34	X2 .480
BASE SPEED	1775	S.F.	1.0	P.F.@NL/FL	.049/.795	R2 .0486
PHASE/HERTZ	3/60	AMB C/INSUL	40/H	WK ² (LB-FT ²)	3.84	XN 8.13



REMARKS: TYPICAL DATA
DATA VALID FOR NAMEPLATE SPEED RANGE ONLY

 BALDOR • DODGE • RELIANCE	DR. BY	B. GRANT	A-C MOTOR PERFORMANCE CURVES L3380A SH20F2 ISSUE DATE 8-14-06
	CK. BY	B. GRANT	
	APP. BY	T. CURR	
	DATE	8-14-06	

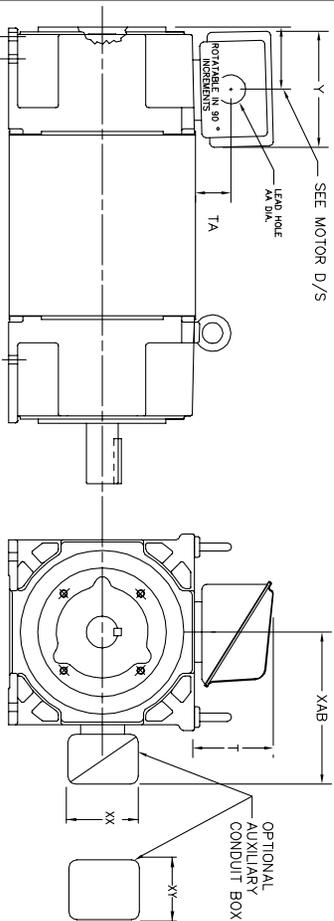


616779-050

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	7/5	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	MILL	Y	100	706310056A	7.75	2.30	4.40	PG29 /PG16
FL210 & RL210	MILL	Y	160	7063100568	9.00	3.06	5.40	PG36 /PG16
FDL13 & RDL13	MILL	Y	160	7063100568	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	MILL	Y	100	706310056A	7.75	2.30	4.40	PG29 /PG16
FL250 & RL250	MILL	Y	160	7063100568	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	7063200140	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	7063100568	9.00	3.06	5.40	PG36 /PG16
FL280 & RL280	MILL	Y	400	7063100638	14.39	7.43	12.15	BLANK

FRAME SIZE	XAB	XX	XY	PART NUMBER	FRAME SIZE	XAB	XX	XY	PART NUMBER
FL180/FL180/RL210/RL132	7.38	4.25	4.25	603C007-26-A	FL210/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	FL250/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 KEPT FOR LEAD OUTLET AT TOP SIDES OR BOTTOM TERMINAL BOX CAN BE KEPT FOR LEAD OUTLET AT TOP SIDES OR BOTTOM OF C-1 MOUNTING IS SPECIFIED. DIM. LOCATED ON TYP. 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
REV. LTR: D	REVISED: 11:46:16 10/19/2017	BY: RGGWT
FILE: \\RGG\00003\692		
MTL: -		

BALDOR

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

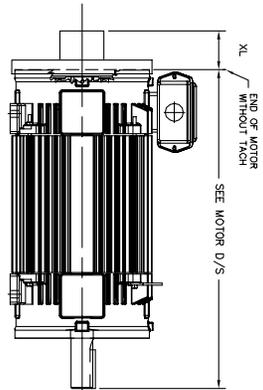
SH 1 of 1

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

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

616779-055

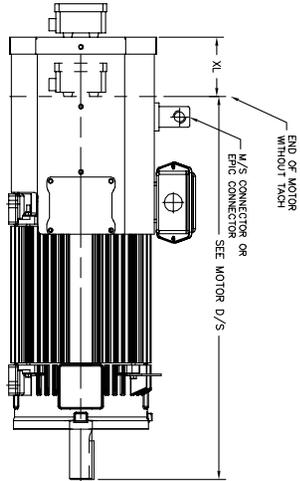
TACH. MODEL	XL Inche(s)(mm)	LBS.
BEL PB DYNAPAR HS35	2.88 (74)	5
DYNAPAR H20 *	7.50(191)MAX	10
NORTHSTAR HS35M	3.31 (84)	10
NORTHSTAR ST67	2.88 (74)	5
DYNAPAR HS6	10.56 (268)	40
AVTRON M3 BR M4	3.62 (.92)	10
TAMAGAWA TSS013(X1)	6.00 (152)	10
NORTHSTAR ST65	2.88 (74)	5
NORTHSTAR ST85	2.00 (.51)	5
BEL H38B	10.19 (259)	15
TAMAGAWA TS2151	2.64 (67)	15
BEL HS3	7.50 (191)	15
DYNAPAR HS20	2.00 (.50)	5
DYNAPAR X23	12.88 (327)	10
STIEGMANN SRK25	7.25 (184.4)	10
NORTHSTAR HS035	3.00 (.76)	10
HEIDENHAIN EGN425	2.5 (63.5)	5
AVTRON HS35M	4.19 (106.4)	5
HEIDENHAIN ERN480	5.00 (76.2)	5
DYNAPAR HD25	7.00 (177.8)	10
DYNAPAR H22	3.62 (92.1)	5
AVTRON M285	2.54 (64.5)	9
AVTRON M850	2.54 (64.5)	9
AVTRON AV56	4.50 (115)	15
HS125	3.30 (84)	5
HS125B	3.30 (84)	2
NORTHSTAR P18	3.25 (83)	15
DYNAPAR HA625	5.88 (150)	10
AVTRON AV495	9.50 (241)	18
AVTRON AV32	1.93 (49)	.7



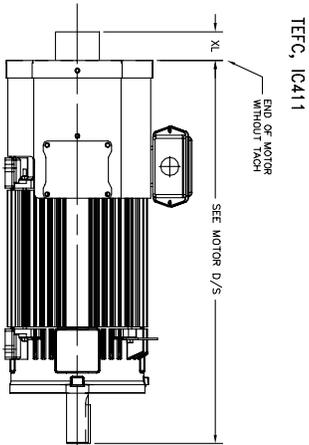
* THIS DIMENSION INCLUDES COVER FOR X/T MOTOR.

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

TACH. MODEL	XL Inche(s)(mm)	LBS.
BEL PB DYNAPAR HS35	4.50 (115)	10
DYNAPAR H20	4.50 (115)	15
AVTRON M3 BR M4	4.50 (115)	10
NORTHSTAR HS35M	4.50 (115)	15
NORTHSTAR ST65	4.50 (115)	10
NORTHSTAR ST67	4.50 (115)	10
NORTHSTAR ST85	4.50 (115)	5
TAMAGAWA TSS008, TSS013	4.50 (115)	10
DYNAPAR HS20	4.50 (115)	15
STIEGMANN SRK25	4.50 (115)	10
STIEGMANN SRV/SR150	4.50 (115)	3
STIEGMANN SR350	4.50 (115)	15
H25D & H25E	4.50 (115)	15
AVTRON HS35M	4.50 (115)	10
AVTRON AV85	4.50 (115)	10
AVTRON HS5	4.50 (115)	5
AVTRON HA67	4.50 (115)	10
HS138	4.50 (115)	5
TS2014	4.50 (115)	10
AVTRON HS45	4.50 (115)	15
DYNAPAR HS038M	4.50 (115)	15
AVTRON AV32	4.50 (115)	.7



TACH. MODEL	XL Inche(s)(mm)	LBS.
BEL HS35	2.88 (74)	7
NORTHSTAR HS35M	3.31 (84)	10
DYNAPAR H20	3.75 (95)	15
DYNAPAR HS35, HS038	2.88 (74)	7
H20(X1)	9.75 (248)	35
EMAS	7.90 (201)	35
AVTRON HS35M	4.19 (106)	2
STIEGMAN SRK50	3.75 (95)	1
DYNAPAR H20	2.00 (.51)	1
NORTHSTAR HS035	2.81 (71)	2
NORTHSTAR HS038	3.30 (84)	5
AVTRON AV32	1.93 (49)	.7



950-671919

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

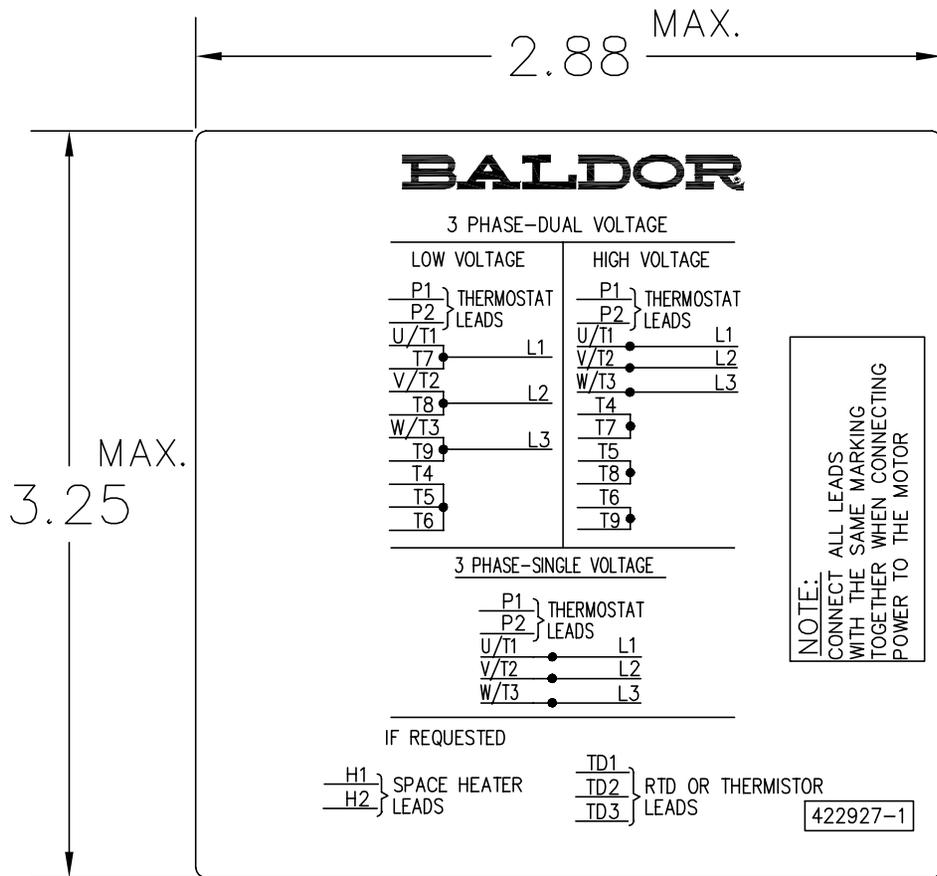
REV. DESC: REVISE "EXCLUDES" NOTE ON TEAO-BC MOTORS	VERSION: 22	TDR: 000001040214
REV. LTR: X	REVISOR: 01:53:13 08/18/2017	BY: RGGWT
FILE: \RGG\00003\694		
MTL: -		

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	
MTL: -	BY: RGGWT	

BALDOR

EXTERNAL CONNECTION LABEL

SH 1 of 1