

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	Prod. Type:		Elec. Spec:	L3380A	CD Diagram:	422927-001
Enclosure:	TEBC	Mfg Plant:		Mech. Spec:		Layout:	617573-342
Frame:	FL2570Z	Mounting:	F3	Poles:	04	Created Date:	04-10-2015
Base:		Rotation:	R	Insulation:	H	Eff. Date:	08-27-2015
Leads:						Replaced By:	
Literature:		Elec. Diagram:					

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> <td>INSUL</td> <td>H</td> </tr> <tr> <td>MAX SAFE SPEED</td> <td>5000</td> <td>AMB.</td> <td>40</td> <td>ENCL.</td> <td>TEAO-BC</td> </tr> <tr> <td>TYPE</td> <td></td> <td>D.E. BRG.</td> <td>65BC03JPP30A</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>O.D.E. BRG.</td> <td>50BC03JPP30A</td> <td></td> <td></td> </tr> </tbody> </table>	FR	FL 2570Z	SPEC. NO.	P25T0313	INSUL	H	MAX SAFE SPEED	5000	AMB.	40	ENCL.	TEAO-BC	TYPE		D.E. BRG.	65BC03JPP30A					O.D.E. BRG.	50BC03JPP30A								
FR	FL 2570Z	SPEC. NO.	P25T0313	INSUL	H																										
MAX SAFE SPEED	5000	AMB.	40	ENCL.	TEAO-BC																										
TYPE		D.E. BRG.	65BC03JPP30A																												
		O.D.E. BRG.	50BC03JPP30A																												
	MIN. AMB. -25																														

Parts List		
Part Number	Description	Quantity
WS286696	WS P25T0313	1.000 EA
RA282904	RA P25T0313	1.000 EA
000613006NS	RPM AC WITH CERTIFIED LOGO	1.000 EA
000692000FP	NP, WARNING LIFT INSTRUCTIONS	1.000 EA
418018122A	LABEL	2.000 EA
418057747A	METAL FASTENER	8.000 EA
000692000NH	LABEL DIRECTION AIR FL	1.000 EA
000692000VD	LABEL WARNING	1.000 EA
418056062B	NP AC BLOWER DATA	1.000 EA
422927001	C/D LABEL	1.000 EA
036100080KA	M10-1.50X 80MM HXSOCHDCS	3.000 EA
036500010AB	METRIC NUT M10-1.5PLTD400	4.000 EA
036500010AB	METRIC NUT M10-1.5PLTD400	4.000 EA
036610010AB	MHSLW M10 PLATED	4.000 EA
400638001H	SPRING WASHER	1.000 EA
418057491A	LIFTING LUG	2.000 EA
602018077A	DRAIN	1.000 EA
602018077A	DRAIN	1.000 EA
609830005ACL	STUD FRAME .375X11.38	4.000 EA
807582003AAA	BRKT,DE,250AC UNFINISHED BRACKET	1.000 EA
807582004AAB	BRKT,ODE,L250	1.000 EA
032018004AK	HHCS 1/4-20X1/2 PLATED	2.000 EA
032018008DK	HHCS 1/2-13X1 PLATED	4.000 EA
032018010DK	HHCS 1/2-13X1-1/4 PLATED	2.000 EA

Parts List (continued)		
Part Number	Description	Quantity
036000012HB	HHCS M6X12MM LONG PLATED	3.000 EA
036000020HB	HHCS M6-1.0X20MM PLATED	4.000 EA
036310010FB	RHMS TERM/BLK MTG	2.000 EA
036320008CB	M2.5 SCREW	4.000 EA
036500006AB	M4-0.7 METRIC HEX NUT	2.000 EA
036620008AB	M6 METRIC EXT LOCKWASHER	1.000 EA
065591000B	GASK 250-280	1.000 EA
075454001AJ	C/BOX, PAINTED 250-280	1.000 EA
075455000A	CBOXC, PAINTED 250-280	1.000 EA
406673002C	.75 CAP PLUG	1.000 EA
415000103A	T/LUG #14AWG-#4AWG W/HOLE FOR .250 BOLT	1.000 EA
417733004T	GASKET CONDUIT BOX	2.000 EA
418018074A	GROUND LABEL G100 METRIC 160 D.C.	1.000 EA
418057169A	LKNUT CAMER	1.000 EA
418057260A	SCREW PHILLIPS PAN HD	4.000 EA
418057367A	CLIP, BEI TACH	2.000 EA
418057373A	SCREW SHEET METAL	7.000 EA
418057381A	CONDUIT WASHER	1.000 EA
418057499A	PLATE	1.000 EA
422962051B	STUB SHAFT	1.000 EA
607980192B	RF,BEI,HS35,TWISTLOCK	1.000 EA
417077-141	BLWR MTR	1.000 EA
708533003A	PLATE, BTM FAN/BLOWER	2.000 EA
708534003A	BAFFLE, FAN/BLOWER	1.000 EA

Product Information Packet: ZDBRPM25504 - 50HP, 1750RPM,3PH,60HZ,2570,TEBC,FOOT

708534050B	GRILL, FAN COVER	1.000 EA
708534051A	FL250 FAN GRILL	1.000 EA
000640000P	TAG WINDING THERMOST	1.000 EA
004824007K	SPECIAL PAINT	0.100 EA
034180024GA	KEY 1/2X1/2X3 L	1.000 EA

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


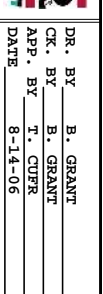
	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
BASE SPEED	1774	50.0	148	460	60	65.1
MAX SPEED	3542	50.0	74	460	120	59.8
MIN SPEED	0	0	148	14.6	.875	65.1

LOAD PERFORMANCE AT BASE SPEED

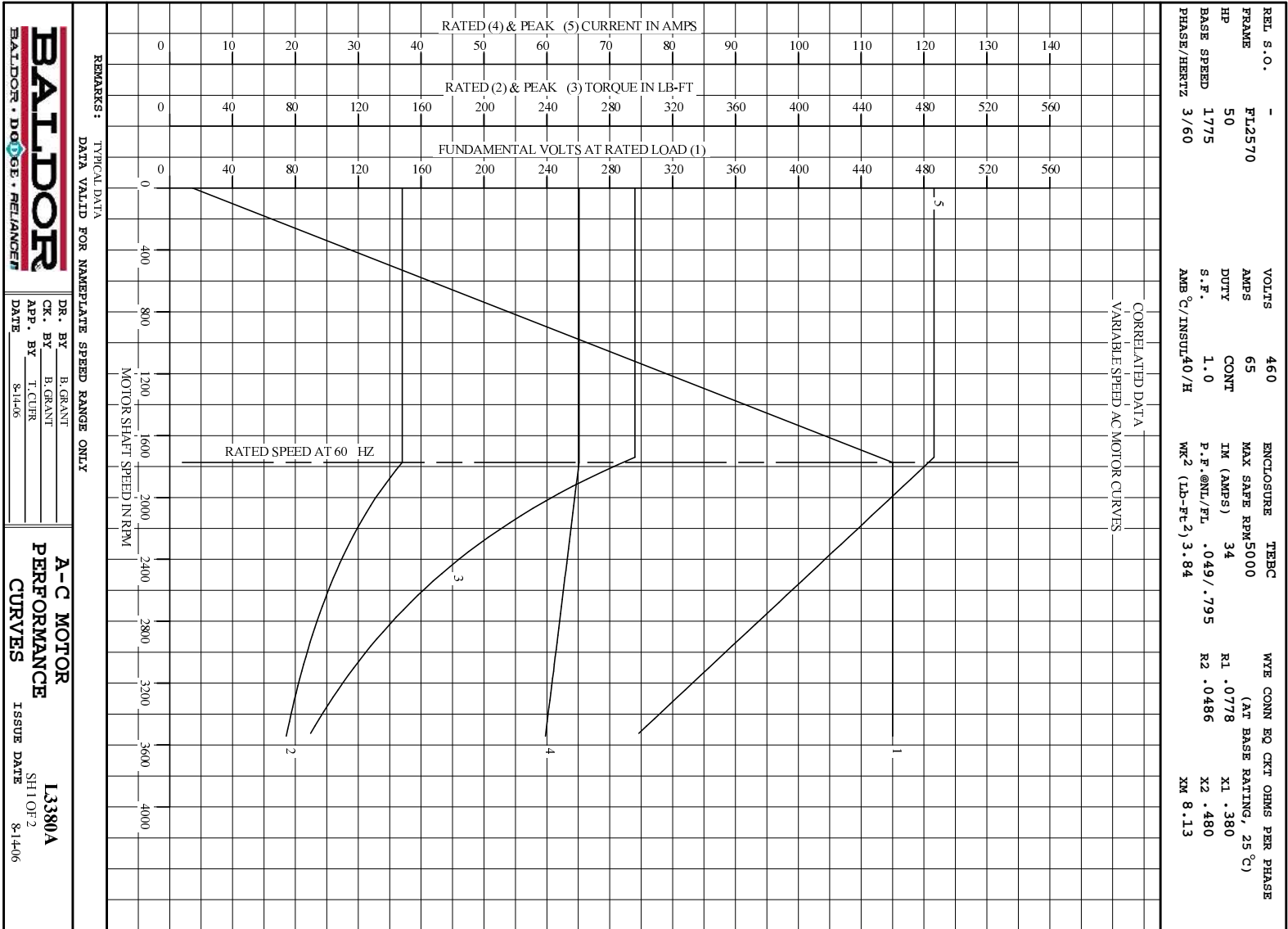
	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	1800	0	0	460	60	33.0
1/4	1794	12.5	37	460	60	36.0
1/2	1787	25.0	74	460	60	43.4
3/4	1781	37.5	111	460	60	53.4
FULL LOAD	1774	50.0	148	460	60	65.1
O/L	1741	98.1	296	460	60	122

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. CURR	
	APP. BY	8-14-06	
		L3380A ISSUE DATE 8-14-06	

1



BALDOR
BALDOR • DOUGLASS • RELIANCE

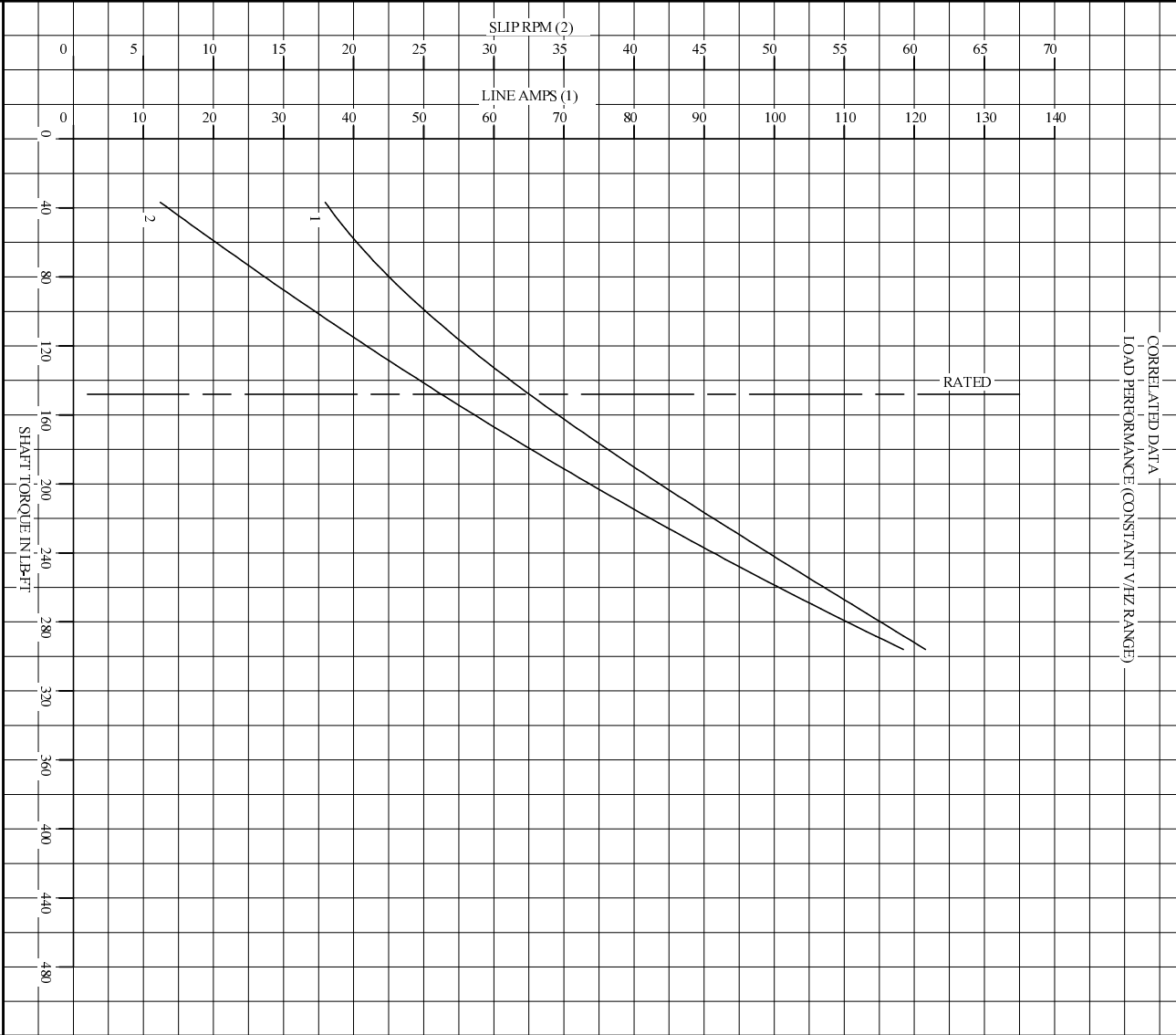
DR. BY B. GRANT
CK. BY B. GRANT
APP. BY T. CURR
DATE 8-14-06

A-C MOTOR
PERFORMANCE
CURVES

L3380A
SH1 OF 2
ISSUE DATE 8-14-06

1

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	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-FC ²)	3.84	XN 8.13



REMARKS: TYPICAL DATA
DATA VALID FOR NAMEPLATE SPEED RANGE ONLY

BALDOR • DOUG • RELIANCE

A-C MOTOR

PERFORMANCE

CURVES

L3380A

SH20F2

ISSUE DATE 8-14-06

DR. BY B. GRANT

CK. BY B. GRANT

APP. BY T. CURR

DATE 8-14-06

DR. BY B. GRANT

CK. BY B. GRANT

APP. BY T. CURR

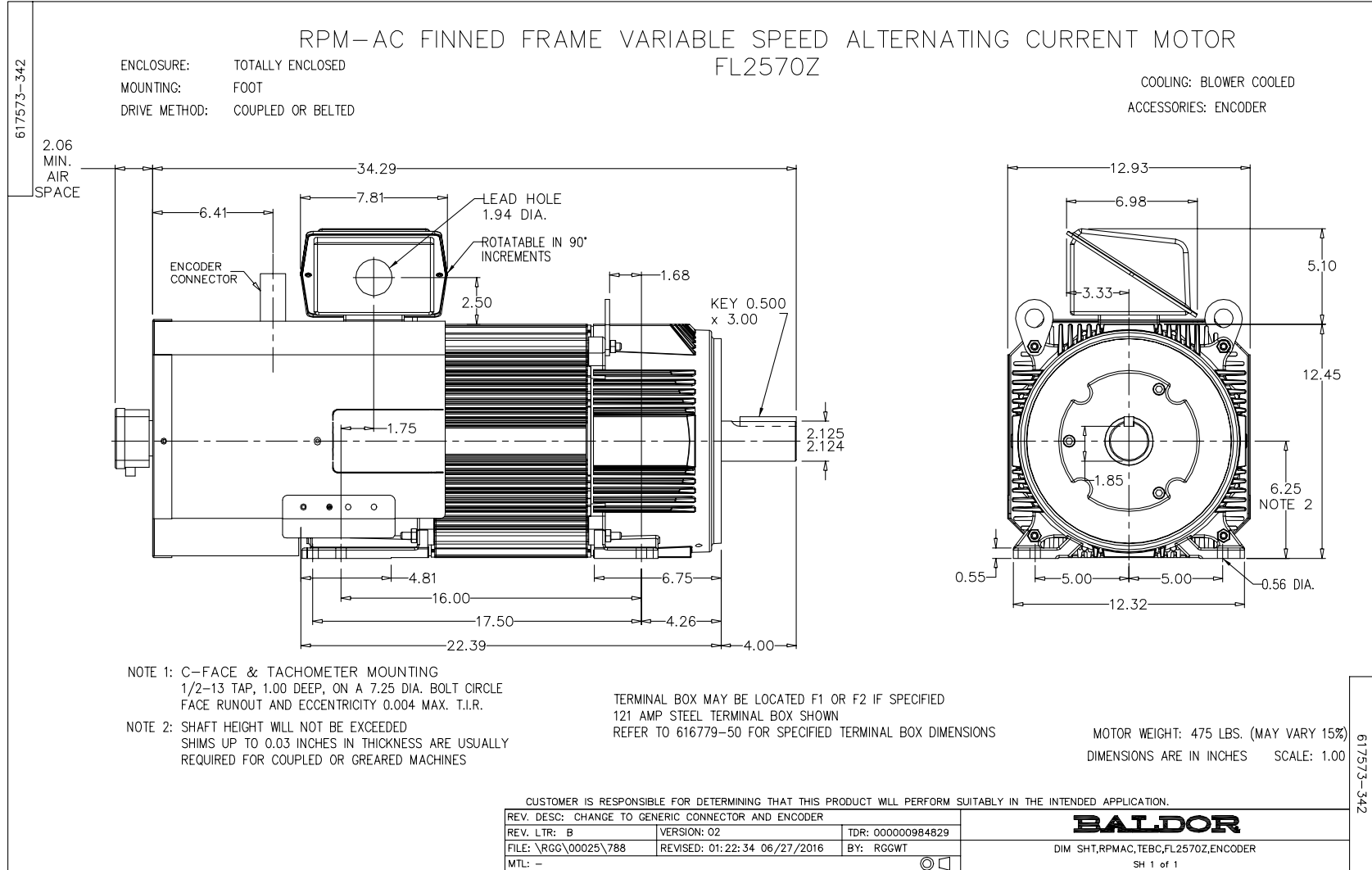
DATE 8-14-06

DR. BY B. GRANT

CK. BY B. GRANT

APP. BY T. CURR

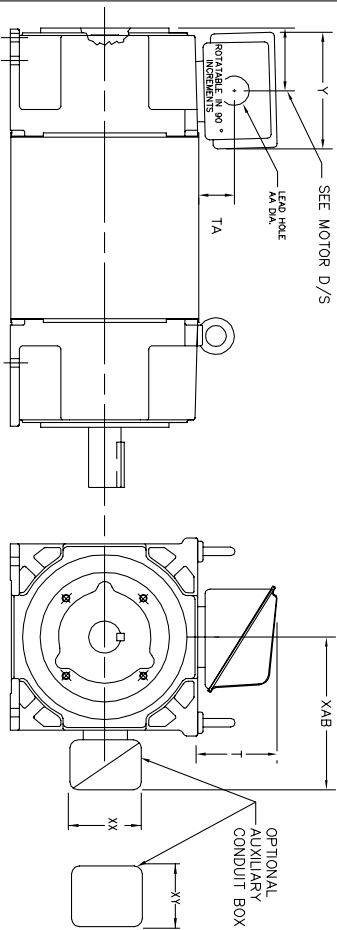
DATE 8-14-06



616779-050

INDUSTRIAL ALTERNATING CURRENT MOTORS RPM AC

STEEL, CAST IRON, MILL AND TERMINAL BOARD CONDUIT BOX DIMENSIONS
NEMA FRAMES FL210 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 AMP	REMARKS
706310-63B	14.39	7.43	12.15	--	400	TERMINAL STRIP
706310-226R	9.00	3.06	5.40	Pg36 & Pq16	160	TERMINAL STRIP
706310-225R	7.75	2.30	4.40	Pg29 & Pq16	100	TERMINAL STRIP
706310-56B	9.00	3.06	5.40	Pg36 & Pq16	160	TERMINAL STRIP
706310-56A	7.75	2.30	4.40	Pg29 & Pq16	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
702658-1G	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
75454-1AJ	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

FRAME SIZE	XAB	OPTIMAL AUXILIARY CONDUIT BOX DIMENSIONS (MAXIMUM)				PART NUMBER			
		XX	XY	XZ	XY				
FL210/FL132/RL210/RL132	7.38	4.25	4.25	6.0200-7-26-A	FL210/FL132/RL210/RL132	10.88	8.00	8.00	706310-3-B
FL220/FL180/RL220/RL180	8.44	4.23	4.23	6.0200-7-26-A	FL220/FL180/RL220/RL180	11.88	8.00	8.00	706310-3-B
FL280/FL180/RL280/RL180	9.12	4.23	4.23	6.0200-7-26-A	FL280/FL180/RL280/RL180	12.62	8.00	8.00	706310-3-B

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. LTR: 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

- (1) 'AA' CONDUIT.
- (2) 'AA' PIPE TAP.
- (3) CUSTOMER TO PROVIDE HOLE FOR CONDUIT.
- (4) Z-DIM - 3A, or -1, TAP-DIM - 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.

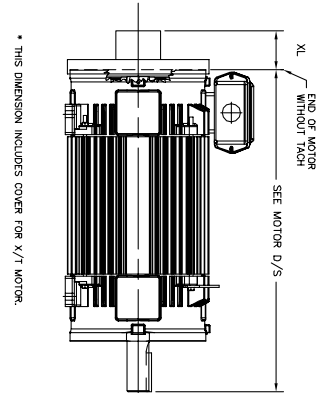
050-60-671919

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 & TEAO-PB
 IC06, IC17, IC37, IC410, & IC416-PB

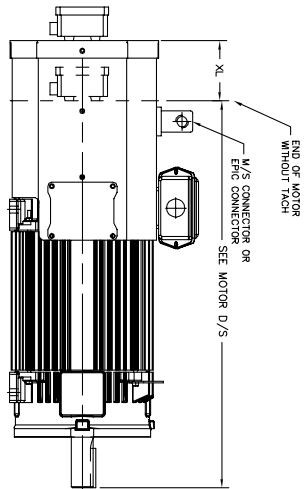
616779-055

TACH MODEL	XL Inchest(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	3.62 (92)	10
TAMAGAWA TS5013(17)	6.00 (152)	10
NORTHSTAR ST56	2.88 (74)	5
NORTHSTAR ST85	2.00 (51)	5
BEI H38D	10.17 (259)	15
TAMAGAWA TS2151	2.64 (67)	5
BEI H23	7.50 (191)	15
DYNAPAR H20	2.00 (50.8)	5
DYNAPAR H25	12.88 (327)	10
STEGMANN SRS25	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 FRM480	5.00 (127.0)	5
DYNAPAR H125	7.00 (177.8)	10
DYNAPAR H22	3.62 (92.1)	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 (82)	15
DYNAPAR H4625	5.88 (150)	10
AVTRON AV485	5.50 (141)	18



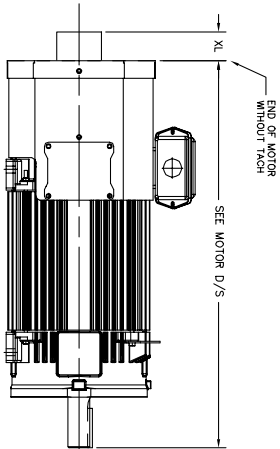
TEAO-BC, IC416-BC

TACH MODEL	XL Inchest(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 SRS25	4.50 (115)	10
STEGMANN SRS25/SH50	4.50 (115)	3
STEGMANN SRS360	4.50 (115)	15
H20 & H2E	4.50 (115)	15
AVTRON HS35M	4.50 (115)	10
AVTRON AV85	4.50 (115)	10
AVTRON M56	4.50 (115)	5
AVTRON AV67	4.50 (115)	10
HS138	4.50 (115)	5
TS2014	4.50 (115)	5
AVTRON HS45	4.50 (115)	15
DYNAPAR HS138M	4.50 (115)	15



TEFC, IC411

TACH MODEL	XL Inchest(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
HEX(X1)	9.75 (248)	35
ERM425	7.90 (201)	35
AVTRON HS35M	4.19 (106)	2
STEGMANN SRS50	3.75 (95)	1
DYNAPAR H20	2.00 (51)	1
NORTHSTAR HS135	2.81 (71)	2
NORTHSTAR HS138	3.30 (84)	5



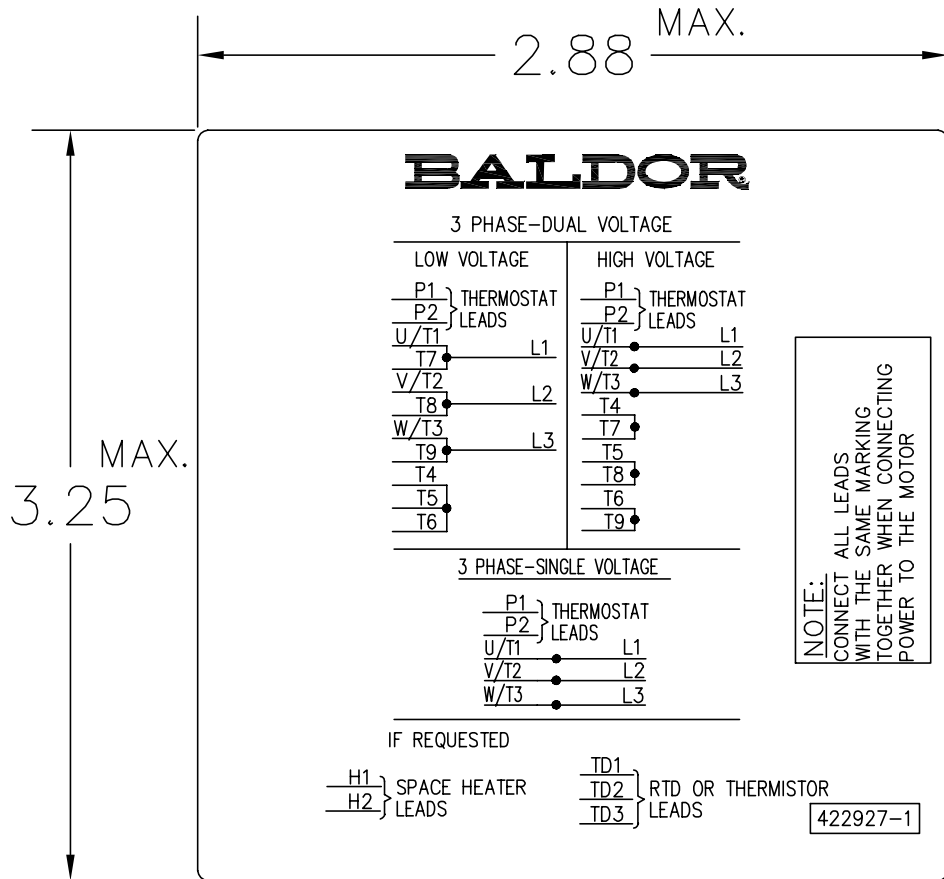
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

REV. DESC: ADD TAMAGAWA TS5008 (B1248085)	VERSION: 19	TDR: 000000895710
REV. LTR: U	REvised: 08:00:14 03/06/2015	BY: RGGWT
FILE: \RGG\00003\694		
MTL: -		


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

055-6179-6

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

Marketing maintained PDF of MN406:

<http://www.baldor.com/support/Literature/Load.ashx/MN406?ManNumber=MN406>