



Product Information Packet

XEFRPM18104

10HP,1800,460V,ACPM,FL1838,TEFC,F3

Part Detail							
Revision:	D	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	LS6940A	CD Diagram:	422927-001	Mfg Plant:	
Mech. Spec:		Layout:	617229-001	Poles:	04	Created Date:	03-30-2016
Base:		Eff. Date:	06-26-2018	Leads:			

Specs			
Catalog Number:	XEFRPM18104		
Enclosure:	TEFC		
Frame:	FL1838Z		
Output @ Frequency:	10.000 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:	Polyrex EM (-20F +300F)		
Constant Torque Speed Range:	15-60		
Current @ Voltage:	10.000 A @ 460.0 V		
Duty Rating:	CONT		
Feedback Device:	NO FEEDBACK		
Frame Prefix:	FL		
Heater Indicator:	No Heater		
Insulation Class:	H		
KVA Code:	G		

Mounting Arrangement:	F3		
Product Family:	Blower - Centrifugal		
Pulley End Bearing Type:	Ball		
Pulley Face Code:	Special Combinations Not Liste		
Shaft Ground Indicator:	No Shaft Grounding		
Shaft Rotation:	Reversible		
Motor Standards:	NEMA		
Thermal Device - Bearing:	NONE (OLD)		
Thermal Device - Winding:	Normally Closed Thermostat		

	DUTY	HP	RPM	AMPS	VOLTS	HZ						
	CONT	10	1800	10.0	460	60						
CAT.NO.	IDCRPM18104		SPEC. NO.				F18-A000-0100					
SER.NO.			FRAME SIZE		FL1838Z		TYPE PSM					
AMB.	40	S.F.	1.15	ENCL.	TEFC		PH	3	DESIGN	B	CODE	G
NEMA NOM. EFF	93.0		GUARANTEED EFFICIENCY				91.7		POWER FACTOR		97.7	
D.E. BRG.	45BC02J30X		O.D.E. BRG.				35BC02J30X					
VPWM INVERTER DUTY @1.0SF	CHP HZ		60-90		CT HZ		1-60		VT HZ		0-60	
	X/T											

Nameplate 000692000VY		
IS		MEAS OPEN CIRCUIT VOLTAGE
		VOLTS AT
		RPM.
EXCEED	L.R.	MTR PH CURRENT SHOULD NOT
		AMPS RMS PEAK TO
	AVOID DEMAGNETIZATION	

Parts List		
Part Number	Description	Quantity
WS309117	WS F18-A000-0100	1.000 EA
RA305335	RA F18-A000-0100	1.000 EA
411716004A	219P039 - 219P039 - LA	1.000 EA
000692000FP	NP, WARNING LIFT INSTRUCTIONS	1.000 EA
418057747A	METAL FASTENER	8.000 EA
000613007QF	NP,RPM AC - XE WITH CERTIFIED LOGO	1.000 EA
000613006PW	NP,ELECTRIC MOTORS FOR ORDINARY LOCATION	1.000 EA
000692000VY	PERMANENT MAGNET MOTOR NAMEPLATE	1.000 EA
422927001	C/D LABEL	1.000 EA
004824007AB	PAINT,XT	0.100 EA
418057243A	GROOVE PIN	1.000 EA
807504052B	FL180 FRAME	1.000 EA
807580012AAB	BRKT, ODE, FL180, TOP MOUNT	1.000 EA
807580005A	BRKT,DE,FL180	1.000 EA
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
004824015A	GREASE POLYREX EM	0.100 LB
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
036000050JB	M8-1,25 X 50 MHCS	2.000 EA
032018014AK	HHCS 1/4-20X1-3/4 PLTD.	3.000 EA
415045002J	SLGR	1.000 EA
415045002H	SLGR	1.000 EA
400638001D	WAVEN	1.000 EA
034017012AB	LCKW 1/4 STD. PLATED	4.000 EA
418150003A	GREASE FITTING CAP	2.000 EA

Parts List (continued)		
Part Number	Description	Quantity
035000001A	ALFTG 1/8" 1610-BL	1.000 EA
035000001A	ALFTG 1/8" 1610-BL	1.000 EA
411693051B	LUG, LIFTING	2.000 EA
033102012AG	HXNUT LEAD CONN	4.000 EA
032003144CB	THRU BOLT	4.000 EA
415000103G	TLUG	1.000 EA
415072001A	CLAMP	1.000 EA
417733002A	GASKET	2.000 EA
034180010DA	KEY 1/4X1/4X1-1/4L	1.000 EA
078546001NA	EXT FAN 7.50 OD&1.126 DIA BORE 78546-1G	1.000 EA
807505051A	GRILL, FAN COVER	1.000 EA
807505050A	COVER, FAN	1.000 EA
036000012HB	HHCS M6X12MM LONG PLATED	3.000 EA
418010006B	PLATE, MOUNTING	1.000 EA
418057373A	SCREW SHEET METAL	3.000 EA
418018074A	GROUND LABEL G100 METRIC 160 D.C.	1.000 EA
406673002C	.75 CAP PLUG	2.000 EA
406673002AE	2" CAP PLUG	1.000 EA
036620009AB	M8 EXTERNAL LK WASHER	1.000 EA
034630001AJ	1/8" PIPE COUPLING	1.000 EA
034530016AB	P/NIP 1/8X2 PLATED - 320	1.000 EA
036601009AB	M8 FLAT WASHER	4.000 EA
706320004C	CBOX REPL 705028-2C MTRC	1.000 EA
075459000A	C/BOX CVR W75459	1.000 EA

Product Information Packet: XEFRPM18104 - 10HP,1800,460V,ACPM,FL1838,TEFC,F3

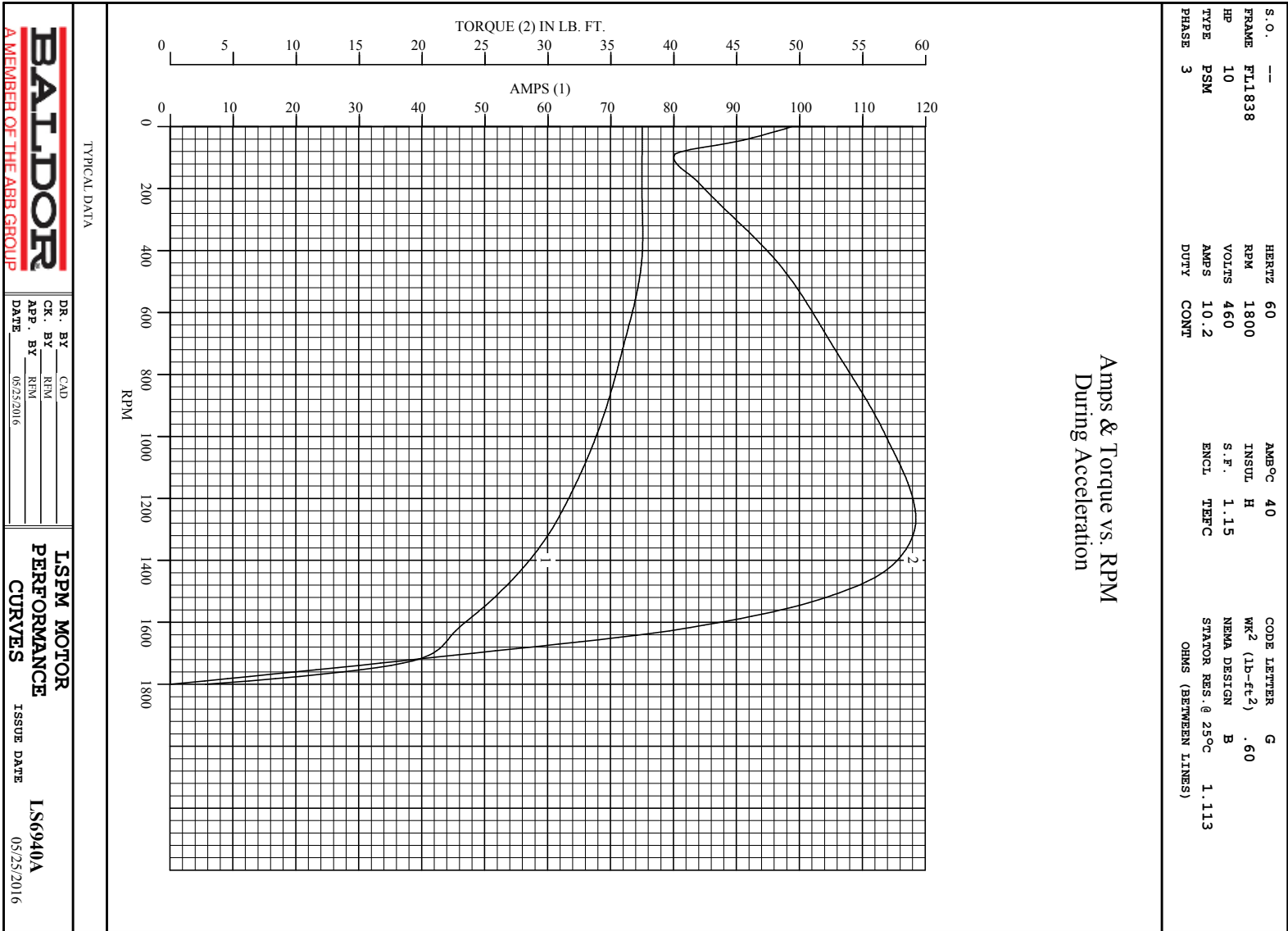
065564000D	GASK 210-250	1.000 EA
036000012HB	HHCS M6X12MM LONG PLATED	2.000 EA
036000030JB	HHCS M8-1.25X30MM PLTD.	4.000 EA
034180020EA	KEY 5/16X5/16X2-1/2 L	1.000 EA
000640000P	TAG WINDING THERMOST	1.000 EA
004824007K	SPECIAL PAINT	0.100 EA
034693001AB	PPLG - G508- use 034692001AB	1.000 EA
034693001AB	PPLG - G508- use 034692001AB	1.000 EA

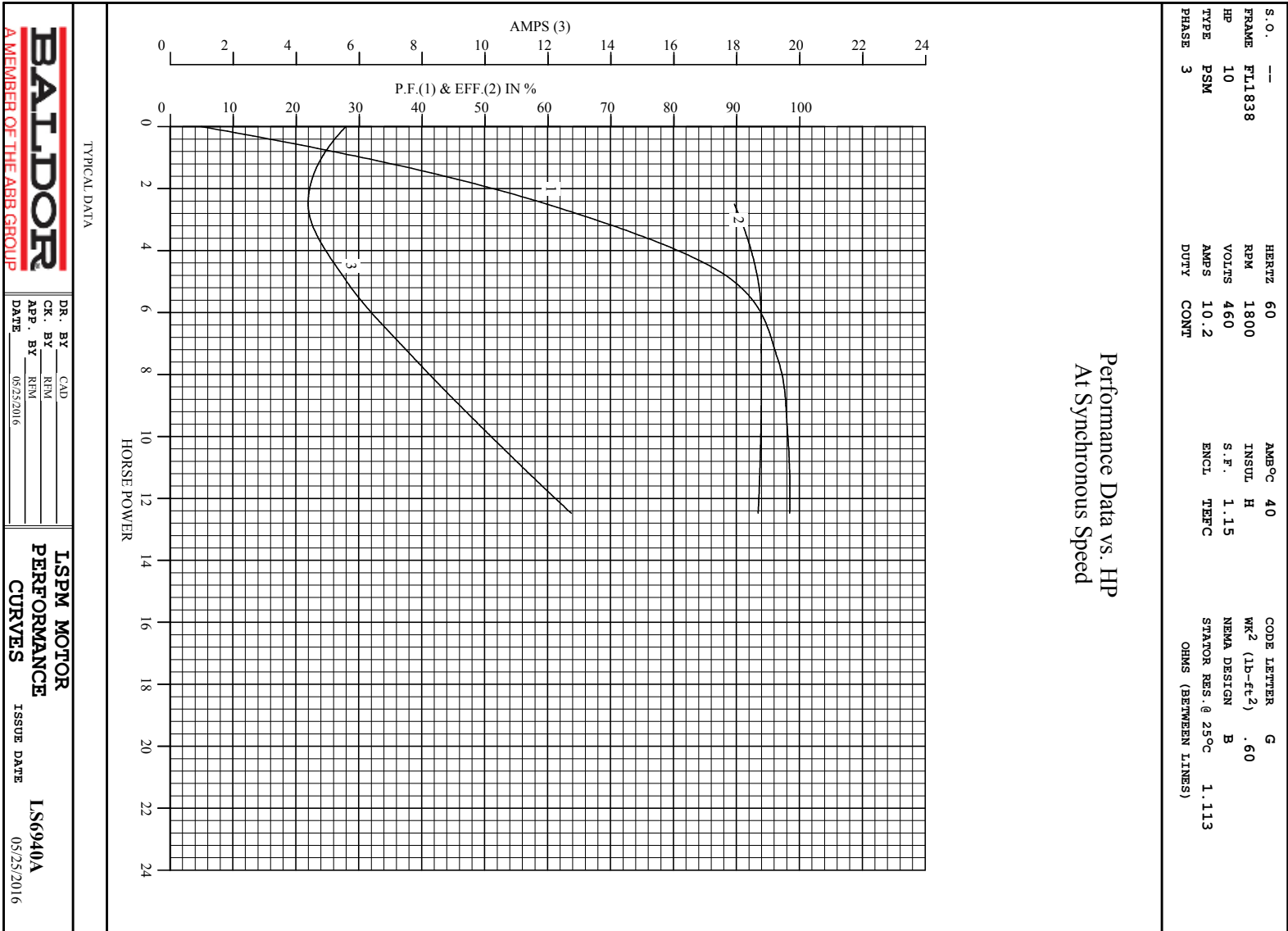
S. O.	FRAME	HP	TYPE	PHASE	HERTZ	RPM
--	FL1838	10	PSM	3	60	1800
VOLTS	AMPS	DUTY	AMB°C	INSUL	S. F.	NEMA DESIGN
460	10.2	CONT	40	H	1.15	B
CODE LETTER	ENCL	ROTOR INERTIA (lb-ft ²)	STATOR RES. @ 25°C OHMS (BETWEEN LINES)			
G	TEFC	.60	1.113	TYPICAL DATA		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	5.6	1800	4.90	N/A	
1/4	2.50	4.4	1800	59.8	89.6	
2/4	4.99	5.6	1800	89.5	93.4	
3/4	7.49	7.8	1800	96.5	93.9	
4/4	9.99	10.2	1800	98.1	93.8	
5/4	12.5	12.7	1800	98.4	93.4	
SPEED TORQUE						
		RPM	TORQUE (% FULL LOAD)	TORQUE (lb-ft)	AMPERES	
LOCKED ROTOR		0	169	49.4	75.0	
PULL OUT		1800	299	87.2	39.5	
FULL LOAD		1800	100	29.1	10.2	
THIS IS A PERMANENT MAGNET MOTOR GENERATED OPEN CIRCUIT LINE-LINE VOLTAGE at 25°C = 20.3 VOLTS PER 100 RPM REMARKS:						
 DR. BY CAD CK. BY REM APP. BY REM DATE 05/25/2016 LSPM MOTOR PERFORMANCE DATA ISSUE DATE 05/25/2016						

A MEMBER OF THE ABB GROUP

DR. BY CAD
CK. BY REM
APP. BY REM
DATE 05/25/2016

LSPM MOTOR
PERFORMANCE
DATA
ISSUE DATE 05/25/2016



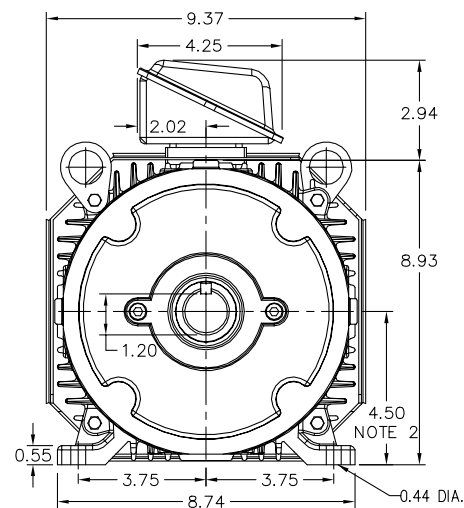
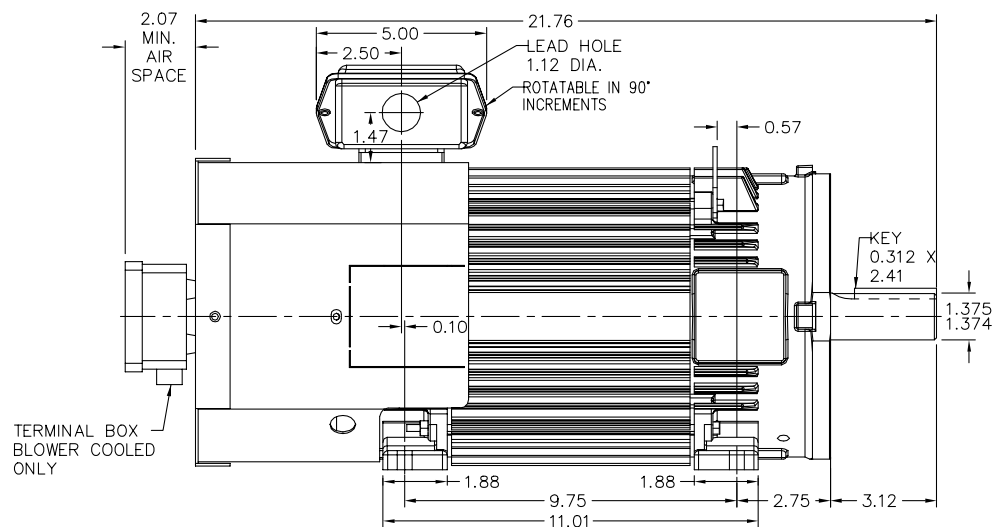


617229-001

RPM-AC FINNED FRAME VARIABLE SPEED ALTERNATING CURRENT MOTOR FL1838Z

ENCLOSURE: TOTALLY ENCLOSED
MOUNTING: FOOT
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
40 AMP STEEL TERMINAL BOX SHOWN
REFER TO 616779-50 FOR SPECIFIED TERMINAL BOX DIMENSIONS
REFER TO 616779-55 FOR SPECIFIED TACHOMETER DIMENSIONS

MOTOR WEIGHT: 158 LBS. (MAY VARY 15%)
DIMENSIONS ARE IN INCHES SCALE: 1.00

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

REV. DESC: ASSIGNED TO BUSLOAD

REV. LTR: -

VERSION: 00

TDR: 000000483717

FILE: \RGG\00003\503

REVISED: 16:24:48 12/05/2008

BY: CONBAT

MTL: -

BALDOR • DODGE • RELIANCE

DIM SHT RPM AC TEFC OR FC FL1838Z FT MTG PROV FOR TACH

SH 1 of 1

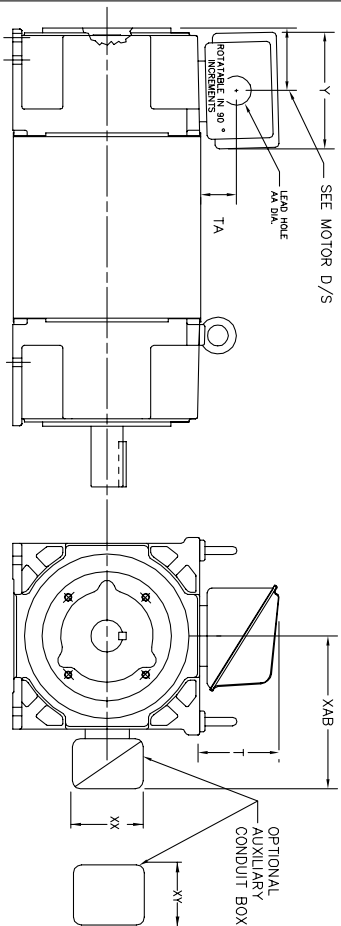
617229-001

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	75	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 & FDL11	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	075452000B	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	075460062B	7.25	2.50	5.25	1.5 TAP
FL210 & RL210	CAST IRON	N	110	075460062B	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	100	706310056A	7.75	2.30	4.40	PG29/PG16
FL210 & RL210	MILL	Y	160	706310056B	9.00	3.06	5.40	PG36/PG16
FL210 & RL210	MILL	Y	160	706310056B	9.00	3.06	5.40	PG36/PG16

FL250 & RL250	STEEL	N	61	075452000B	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	075460062B	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	706310056B	9.00	3.06	5.40	PG36/PG16
FL250 & RL250	MILL	Y	160	706310056B	9.00	3.06	5.40	PG36/PG16
FL250 & RL250	MILL	Y	400	706310063B	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	706320012B	9.25	4.81	8.56	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	160	706310056B	9.00	3.06	5.40	PG36/PG16
FL280 & RL280	MILL	Y	400	706310063B	14.39	7.43	12.15	BLANK

FRAME SIZE	XAB	XX	XY	PART NUMBER	FRAME SIZE	XAB	XX	XY	PART NUMBER
FL210/FL180/RL210/RL180	7.38	4.25	4.25	602007-26-A	FL210/FL180/RL210/RL180	10.88	8.00	8.00	706310-3-B
FL250/FL180/RL250/RL180	8.44	4.25	4.25	602007-26-A	FL250/FL180/RL250/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) 2" DN -5A or 1" TAP DN -4C

TERMINAL BOX CAN BE RELATED FOR LEAD OUTLET AT TOP, SIDES OR BOTTOM.
TERMINAL BOX CAN BE RELATED FOR LEAD OUTLET AT TOP, SIDES OR BOTTOM.
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050-67619

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

REV. DESC: REPLACE CONDUIT BOX TABLE

REV. LTR: D

VERSION: 04

TDR: 000001047838

FILE: RGG\00003\692

REVISED: 11: 46: 16 10/19/2017

BY: RGGWT

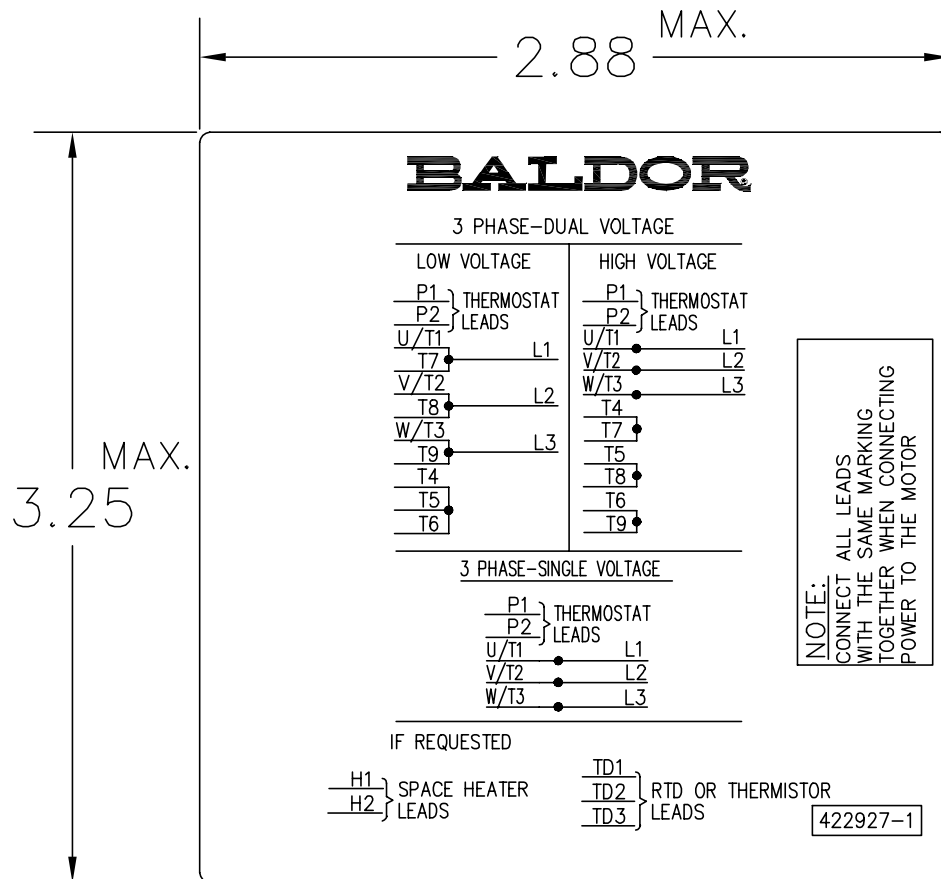
MTL: -

BALDOR

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

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.

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

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<http://www.baldor.com/mvc/DownloadCenter/Files/mn442>