

BALDOR® • RELIANCE

Product Information Packet

IDDRPM251004

100HP,1750RPM,3PH,N/AHZ,2578,DPG-FV,

Part Detail							
Revision:	-	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	L1821A	CD Diagram:	422927-001	Mfg Plant:	
Mech. Spec:		Layout:	617218-001	Poles:	04	Created Date:	04-10-2015
Base:		Eff. Date:	04-13-2015	Leads:			

Specs			
Catalog Number:	IDDRPM251004		
Enclosure:	DP		
Frame:	RL2578		
Frame Material:	Exposed Laminations		
Output @ Frequency:	100.000 HP @ 60 HZ		
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ		
Voltage @ Frequency:	460.0 V @ 60 HZ		
Agency Approvals:	CCSA US		
	UR		
Auxillary Box:	No Auxillary Box		
Base Indicator:	Rigid		
Bearing Grease Type:	No Grease		
Current @ Voltage:	119.000 A @ 460.0 V		
Duty Rating:	CONT		
Enclosure Modification:	FORCE VENT		
Feedback Device:	NO FEEDBACK		
Frame Prefix:	RL		
Heater Indicator:	No Heater		

Insulation Class:	H		
Mounting Arrangement:	F1		
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 000613006NN

	DUTY	HP	RPM	AMPS	VOLTS	HZ	
	CONT	100	1750	119	460	60	
	CONT	100	2000	118	460	68.5	
CAT.NO.	IDDRPM251004		SPEC. NO.		P25R0239		
SER.NO.			FR	RL 2578	INSUL	H	
PH.	3		MAX SAFE SPEED	5000	AMB.	40	MIN. AMB. 0
DESIGN NO.	L1821A		TYPE		ENCL.	DP	
S.F.	1.00		D.E. BRG.	65BC03JPP30A			
ENCL MOD	FORCE VENT		O.D.E. BRG.	50BC03JPP30A			

REL. S. O.	-	VOLTS	460	ENCLOSURE	DEPV	WYE CONN EQ CKT OHMS PER PHASE
FRAME	RL2578	AMPS	119	MAX SAFE RPM	5000	(AT BASE RATING, 25 °C)
HP	100	DUTY	CONT	IM (AMPS)	33	R1 .0615 X1 .302
BASE SPEED	1750	S.F.	1.0	P.F. @NL/FL	.060/.884	R2 .0458 X2 .282
PHASE/HERTZ	3/60	AMB °C/INSUL	40/H	WK² (LB-FT²)	4.2	XM 8.29

RATED FULL LOAD DATA

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
BASE SPEED	1748	100	300	460	60	119
MAX SPEED	1995	100	263	460	68.5	118
MIN SPEED	0	0	0	21.0	1.73	119

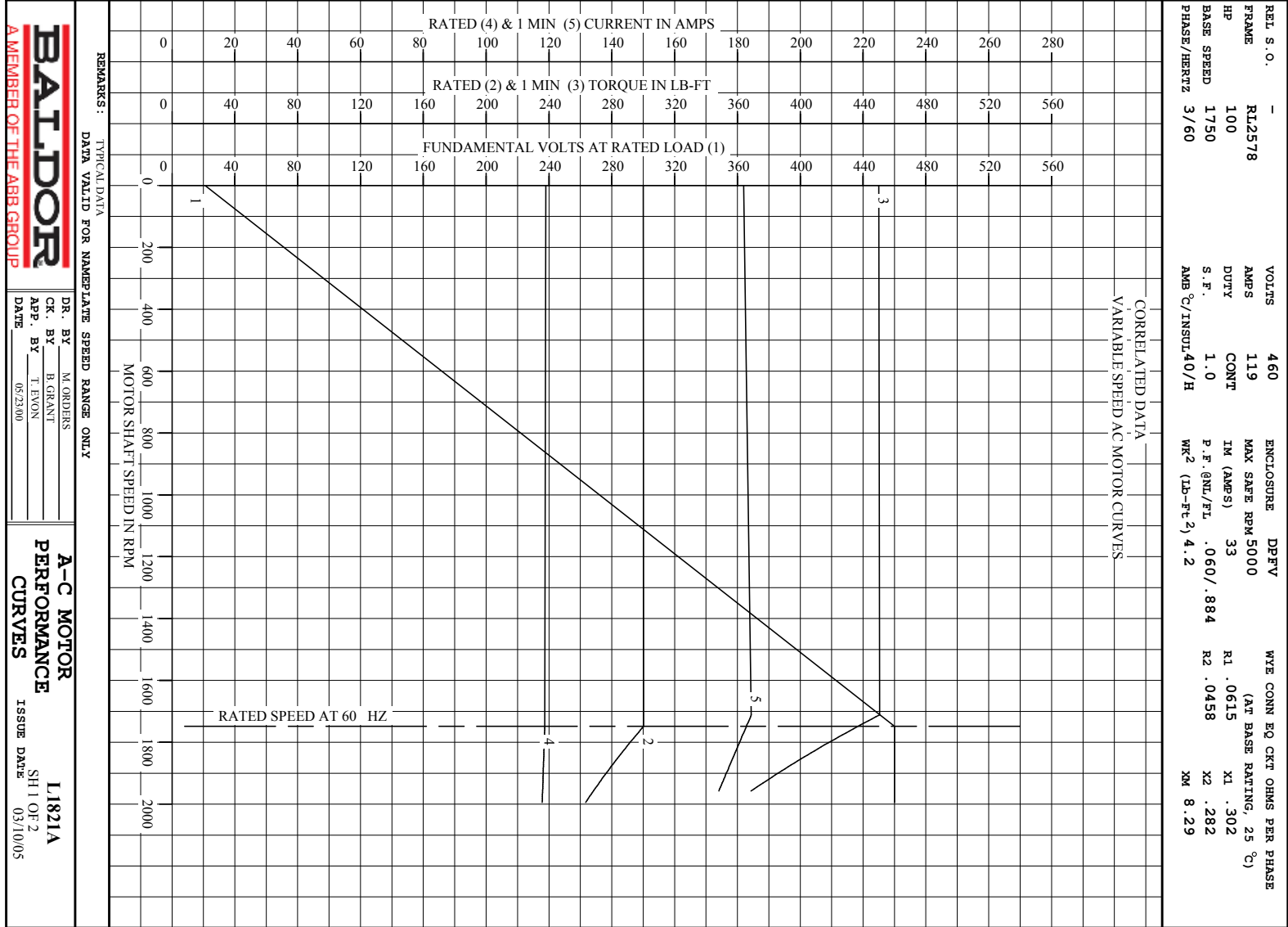
LOAD PERFORMANCE AT BASE SPEED

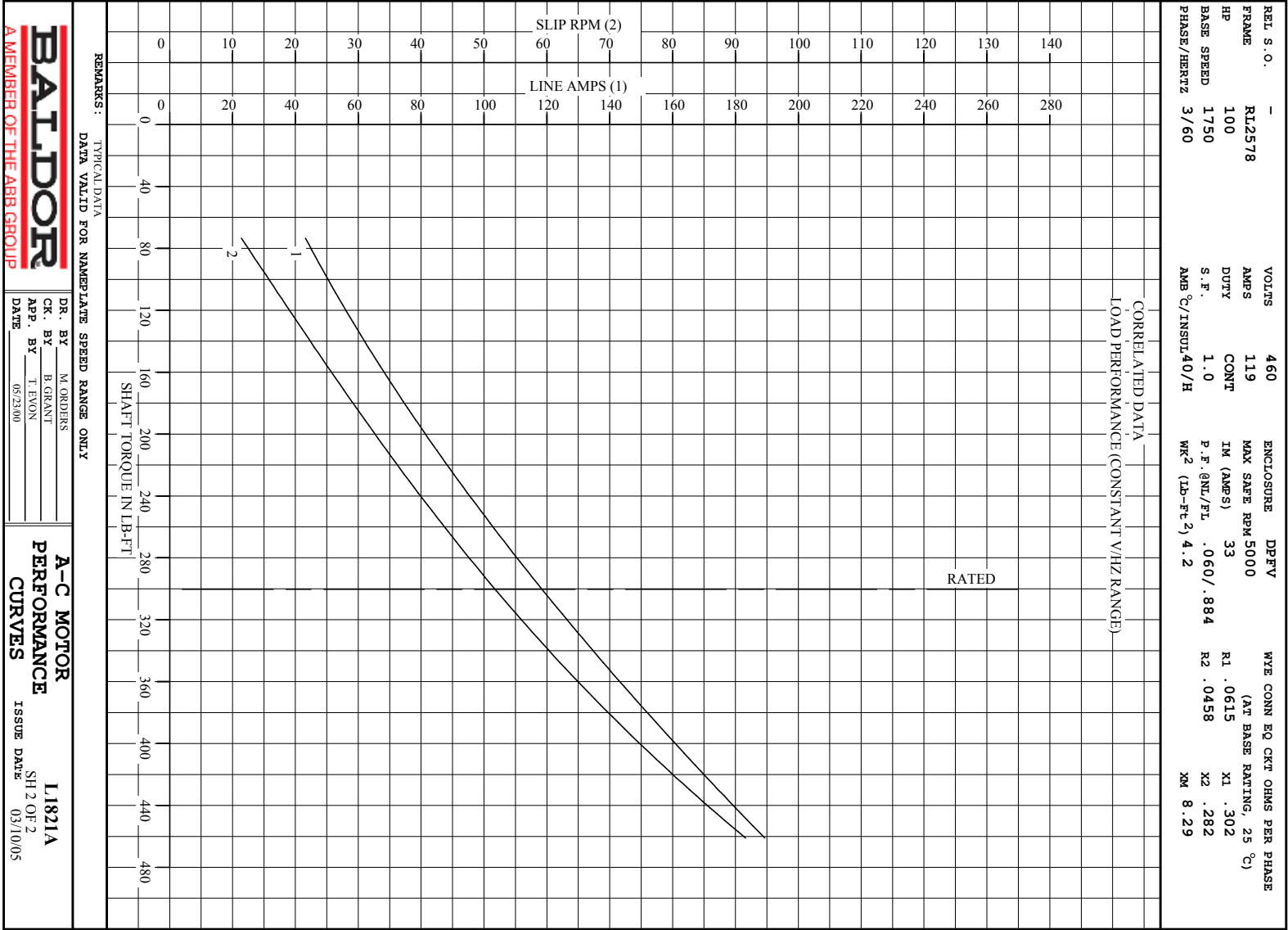
	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	1800	0	0	460	60	32.2
1/4	1789	25.0	73	460	60	43.3
1/2	1776	50.1	148	460	60	64.2
3/4	1763	75.0	223	460	60	89.7
FULL LOAD	1748	100	300	460	60	119
O/L	1711	147	451	460	60	184

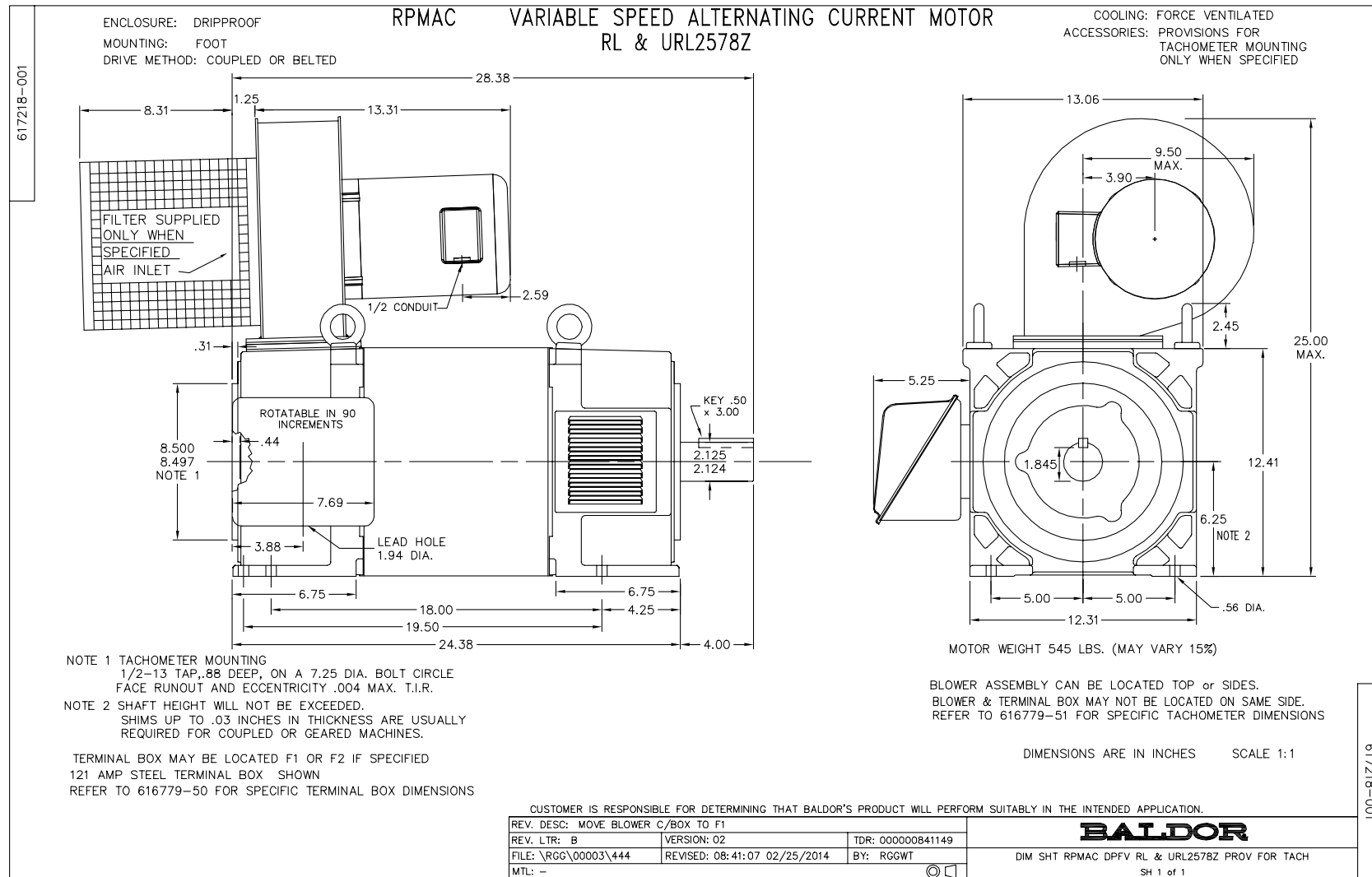
REMARKS: TYPICAL DATA
CORRELATED DATA

BALDOR A MEMBER OF THE ABB GROUP	DR. BY _____ M. ORDERS CK. BY _____ B. GRANT APP. BY _____ T. EVON DATE _____ 05/23/00	A-C MOTOR PERFORMANCE DATA L1821A ISSUE DATE 03/10/05
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C/R 393520







616779-050

Technical drawing of the motor showing side and front views with dimensions:

- Side View (Top):**
 - Overall width: Y
 - Distance from center to lead hole: $Y/2$
 - Lead hole diameter: $\varnothing 10$
 - Lead hole label: LEAD HOLE $\varnothing 10$
 - Distance from lead hole to terminal box: TA
 - Terminal box label: ROTATABLE IN 90°
- Front View (Bottom):**
 - Overall width: XAB
 - Terminal box width: XX
 - Terminal box height: XY
 - Terminal box label: OPTIONAL AUXILIARY CONDUIT BOX

FRAME	TYPE	TERMINAL SHIP	AMPS	C/BOX	Y	TA	T	AA
FL180	STEEL	N	40	7063200034	5.00	1.82	3.00	1.12
FL180	STEEL	Y/N	75	7063200034	6.12	2.36	4.38	1.75/2.00
FL180	STEEL	N	208	7063200074	7.62	2.00	7.00	2.50/3.00
FL180	CAST IRON	Y/N	60	706320004C	5.75	2.38	4.38	1.0.1AP
FL180 & FL011	MILL	Y	100	706310006A	7.75	2.50	4.40	P029/P016

[illegible]

FL250 & RL250	STEEL	N	250	601	6.34	2.00	4.12	1.24
FL250 & RL250	STEEL	N	121	075454007/AJ	7.69	2.36	5.25	1.35
FL250 & RL250	STEEL	N	305	0754400268	9.00	4.12	8.44	4.59
FL250 & RL250	CAST IRON	N	100	7063500154	7.25	2.50	5.40	1.5 TAP
FL250 & RL250	CAST IRON	N	210	7063500130	10.50	4.88	9.00	4.0 TAP
FL16 & RL16	MILL	Y	100	706310056A	7.75	2.20	5.40	PG22/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

F1280 & R1280	STEEL	N	160	706320009A	9.00	2.25	3.50	7.00	2.50
F1280 & R1280	STEEL	N	305	706320016A	9.00	4.12	8.44	4.59	8.08
F1280 & R1280	STEEL	N	500	706320017A	11.82	7.56	12.70	5.00	10.00
F1280 & R1280	CAST IRON	N	210	706320013A	10.50	4.88	9.00	4.00	7AP
F1280 & R1280	CAST IRON	N	510	706320004D	15.00	7.56	12.81	5.0	TAP
F1280 & R1280	CAST IRON	N	510	706320004D	15.00	7.56	12.81	5.0	TAP
F1280 & R1280	STEEL	N	100	706310056A	7.75	2.30	4.40	Pc36/Pg16	
F1280 & R1280	MILL	Y	160	706310056B	9.00	3.06	5.40	Pc36/Pg16	
F1280 & R1280	MILL	Y	160	706310056B	9.00	3.06	5.40	Pc36/Pg16	
F1280 & R1280	MILL	Y	400	706310063B	14.39	7.43	12.15	BLANK	

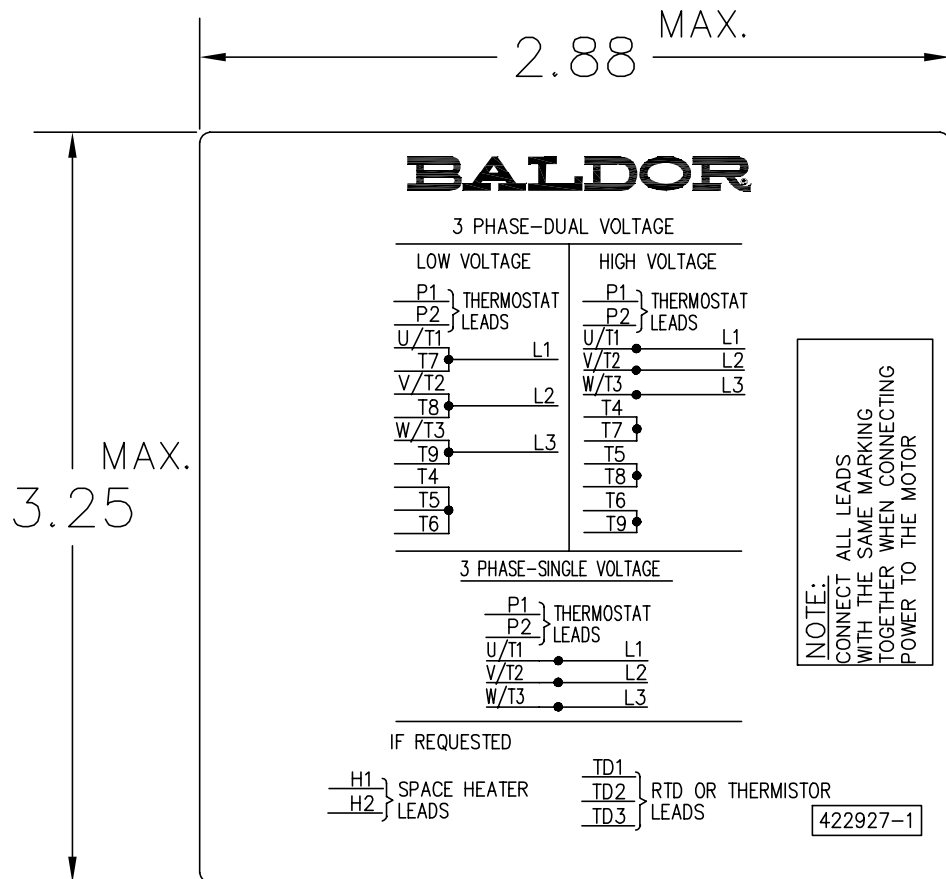
OPTIMAL AUXILIARY CONJUGATE BOX DIMENSIONS (MAXIMUM)									
FRAME SIZE		XX	XY	PART NUMBER	FRAME SIZE		XX	XY	PART NUMBER
F1200T/L1320R20Q100132	7.38	4.25	4.25	602007-26-A	F1200T/L1320R20Q100132	10.88	8.00	8.00	706310-3-B
F1250T/L1360R20Q100160	8.44	4.25	4.25	602007-26-A	F1250T/L1360R20Q100160	11.88	8.00	8.00	706310-3-B
F1300T/L1380R20Q100180	9.12	4.25	4.25	602007-26-A	F1300T/L1380R20Q100180	12.62	8.00	8.00	706310-3-B

- 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.

MTL: -

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 T

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: RCGWT

BALDOR.

EXTERNAL CONNECTION LABEL

SH 1 of 1