



Customer information packet

IDBRPM445004

500HP, 1750, 460V, FL4461, TEBC, F3

Specifications

Enclosure	TEBC
Frame	FL4461Z
Frame Material	Exposed Laminations
Frequency	90.00 Hz
Output @ Frequency	500.000 HP @ 90 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 90 HZ
Voltage @ Frequency	460.0 V @ 90 HZ
Agency Approvals	CCSA US
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	597.000 A @ 460.0 V
Duty Rating	CONT
Feedback Device	NO FEEDBACK
Frame Prefix	FL
Heater Indicator	No Heater
High Voltage Full Load Amps	597.0 a
Insulation Class	H
IP Rating	NONE
Motor Standards	NEMA
Mounting Arrangement	F3
Overall Length	83.82 IN
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.00
Shaft Diameter	4.250 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Speed	1790 rpm
Starting Method	Full Voltage

Part detail

Revision	A
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	L7847A
Layout	617547-001
Eff. date	01-19-2022
CD Diagram	422927-001
Poles	06
Leads	
Proprietary	False
Created date	10-04-2021

Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat

Nameplate

000613006MY									
	DUTY	HP	RPM	AMPS	VOLTS	HZ			
	CONT	500	1790		597	460		90	
	CONT	500	2900		601	460		146	
CAT.NO.	IDBRPM445004			SPEC. NO.		F44-A000-0153			
SER.NO				FR	FL4461Z	INSUL	H		
PH.	3	MAX SAFE SPEED			3150	AMB.	40	MIN. AMB.	-25
DESIGN NO.	L7847A			TYPE		ENCL.	TEAO-BC		
S.F.	1.00			D.E. BRG.		110BC02J30X			
ENCL MOD				O.D.E. BRG.		6222/C3VL0241			
	IP44								

S/O	-	VOLTS	460	ENCLOSURE	TEBC	WYE CONNECTION PER PHASE (AT BASE RATING, 25°C)		
FRAME	FL4461	AMPS	597	MAX SAFE SPEED	2700			
HP	500	DUTY	CONT	IM (AMPS)	199	R1	.00259	X1 .0407
BASE SPEED	1790	S.F.	1.0	P.F. @NL / FL	.034/828	R2	.00198	X2 .0809
PHASE/HZ	3/90	AMB-°C / INSUL	40/H	WK ² (Lb-Ft ²)	212	XM 1.20		

RATED FULL LOAD DATA

	RPM	HP	TORQUE L.B.-FT	FUND VOLTS	FREQ-HZ	AMPS
BASE SPEED	1789	500	1468	460	90	597
MAX SPEED	2900	501	906	460	146	602
MIN SPEED	0	0	1468	4.54	.541	597

LOAD PERFORMANCE AT BASE SPEED

	RPM	HP	TORQUE L.B.-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	1800	0	0	460	90	199
1/4	1797	125	366	460	90	259
1/2	1795	250	732	460	90	350
3/4	1792	375	1099	460	90	466
FULL LOAD	1789	500	1468	460	90	597
0/L	1776	993	2936	460	90	1173

REMARKS:
CORRELATED DATA

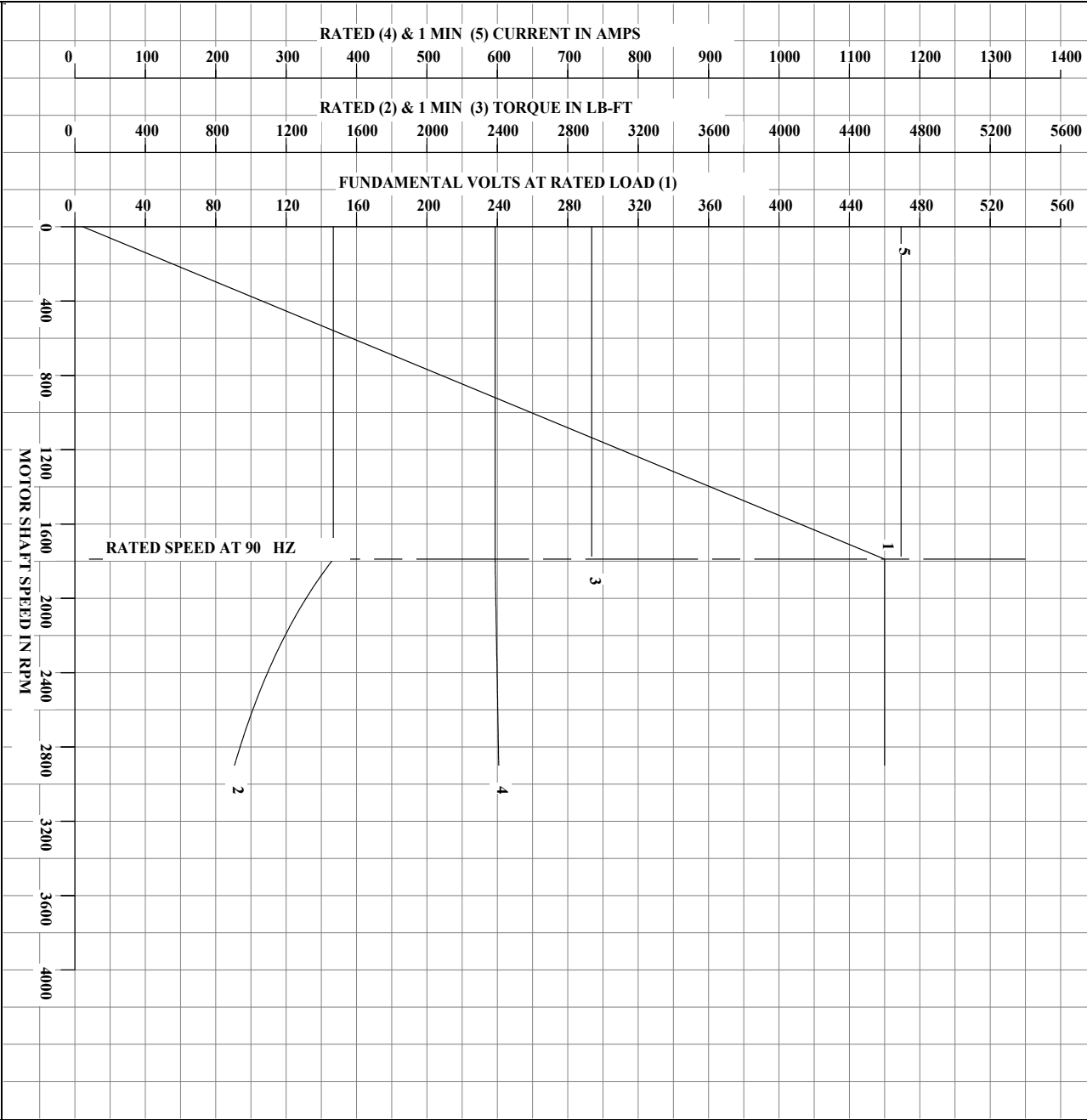
 A MEMBER OF THE ABB GROUP	DRAWN BY: B. GRANT	AC MOTOR PERFORMANCE DATA	L7847A
	CHECKED BY: B. GRANT APPROVED BY: J. MARTIN DATE: 12-5-17		

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S/O	-	VOLTS	460	ENCLOSURE	TEBC	WYE CONNECTION PER PHASE
FRAME	FL4461	AMPS	597	MAX SAFE SPEED	2700	(AT BASE RATING, 25°C)
HP	500	DUTY	CONT	IM (AMPS)	199	R1 .00259 X1 .0407
BASE SPEED	1790	S.F.	1.0	P.F. @ NL / FL	.034/.828	R2 .00198 X2 .0809
PHASE/HZ	3/90	AMB. °C / INSUL.	40/H	Wk² (lb-ft²)	212	X3 1.20

CORRELATED DATA
VARIABLE SPEED AC MOTOR CURVES



DATA VALID FOR NAMEPLATE SPEED RANGE ONLY

BALDOR
A MEMBER OF THE ABB GROUP

DRAWN BY: B. GRANT
CHECKED BY: B. GRANT
APPROVED BY: J. MARTIN
DATE: 12-5-17

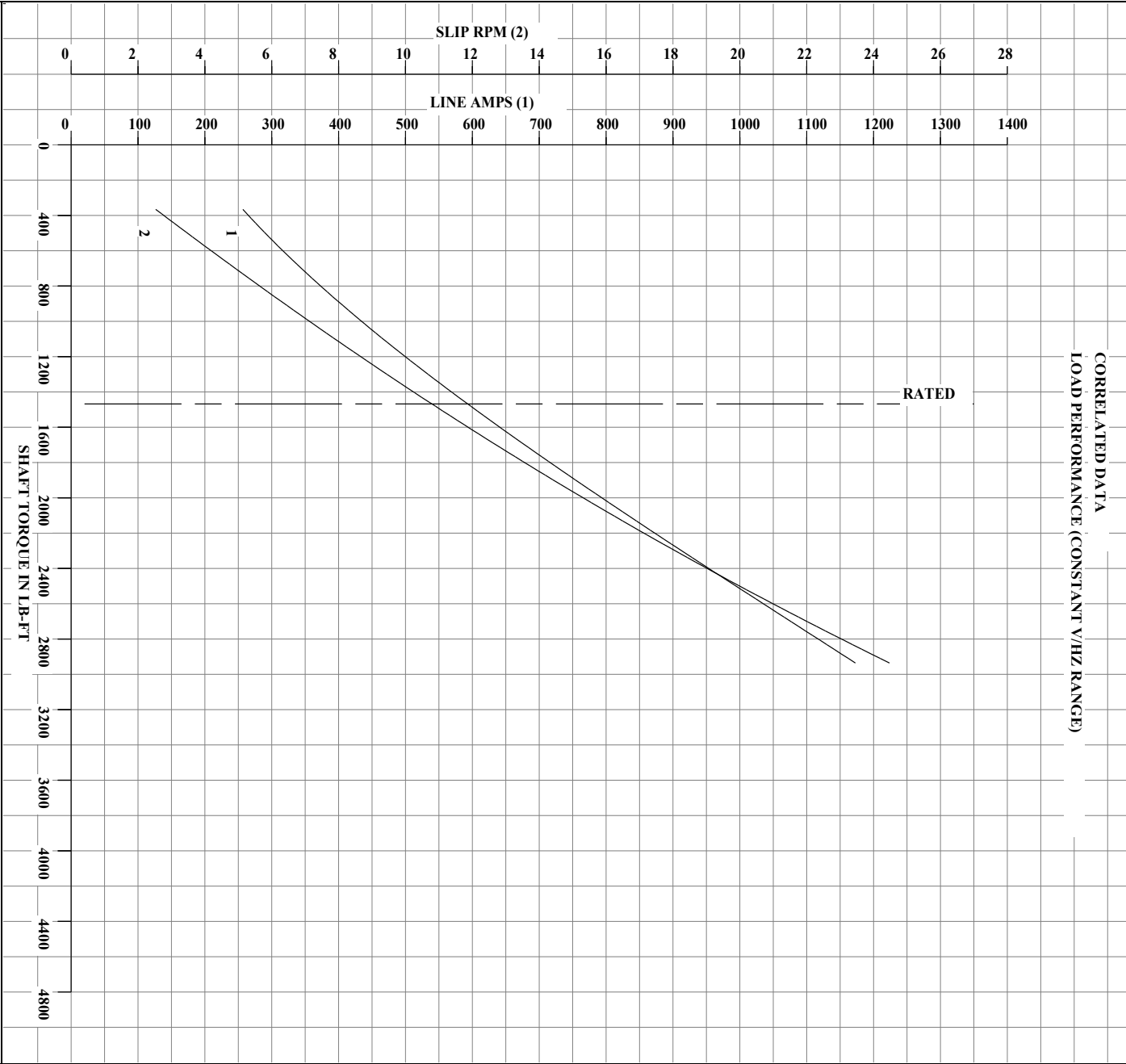
AC MOTOR
PERFORMANCE
DATA

L7847A
ISSUE DATE: 12-5-17

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S/O	-	VOLTS	460	ENCLOSURE	TEBC	WYE CONNECT PER PHASE (AT BASE RATING, 25°C)
FRAME	FL4461	AMPS	597	MAX SAFE SPEED	2700	R1 .00259 X1 .0407
HP	500	DUTY	CONT	IM (AMPS)	199	R2 .00198 X2 .0809
BASE SPEED	1790	S.F.	1.0	P.F. @ NL / FL	.034/.828	X3 1.20
PHASE/HZ	3/90	AMB. °C / INSUL.	40/H	WK² (Lb-Ft²)	212	

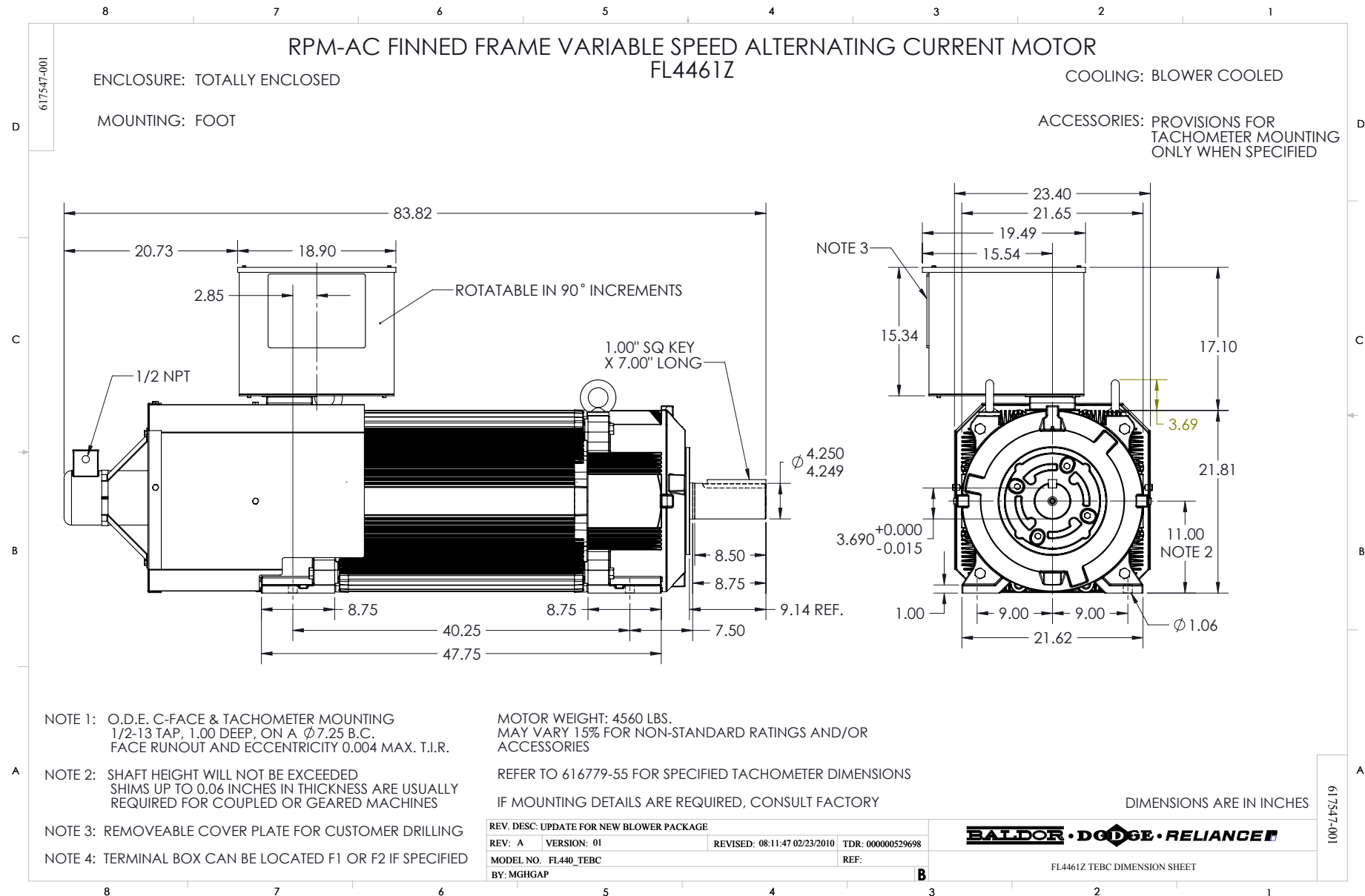


DATA VALID FOR NAMEPLATE SPEED RANGE ONLY

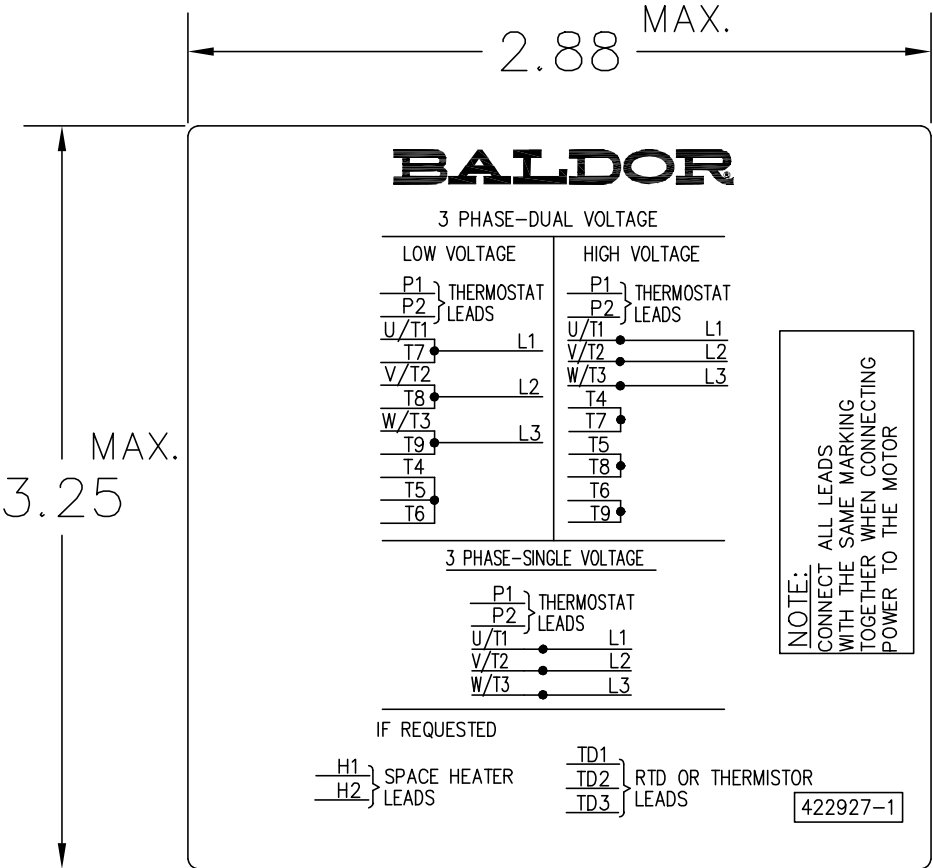
BALDOR A MEMBER OF THE ABB GROUP	DRAWN BY: <u>B. GRANT</u> CHECKED BY: <u>B. GRANT</u> APPROVED BY: <u>J. MARTIN</u> DATE: <u>12-5-17</u>	AC MOTOR PERFORMANCE DATA	L7847A
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NOTE:
DATA TO BE SIZED
SO THAT IT FITS INTO
MATERIAL DECAL
DIMENSIONS. MAKE
LETTERS & 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