

ABB BALDOR RELIANCE III

Customer information packet

IDDRPM5015004

1500HP, 1750, 460V, RL5030, DPFV, F1

Specifications

Enclosure	DPFV
Frame	RL5030Z
Frame Material	Exposed Laminations
Frequency	60.00 Hz
Output @ Frequency	1500.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSA US
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	1686.000 A @ 460.0 V
Duty Rating	CONT
Feedback Device	NO FEEDBACK
Frame Prefix	RL
Heater Indicator	No Heater
High Voltage Full Load Amps	1686.0 a
Insulation Class	H
IP Rating	NONE
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	71.42 IN
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.00
Shaft Diameter	4.500 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Speed	1785 rpm
Starting Method	Full Voltage

Part Detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	L9084A
Layout	622006-011
Eff. date	08-24-2023
CD Diagram	422927-001
Poles	04
Leads	
Proprietary	False
Created date	11-15-2021

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

Nameplate

000613006MY									
	DUTY	HP	RPM	AMPS	VOLTS	HZ			
	CONT	1500	1785		1686	460		60	
	CONT	1500	2600		1670	460		87.4	
CAT.NO.	IDDRPM5015004		SPEC. NO.		R50-A000-0010				
SER.NO			FR	RL5030Z	INSUL	H			
PH.	3	MAX SAFE SPEED			3000	AMB.	40	MIN. AMB.	-25
DESIGN NO.	L9084A		TYPE			ENCL.	DPG-FV		
S.F.	1.00		D.E. BRG.		120BC02J30X				
ENCL MOD			O.D.E. BRG.		6224/C3J20AA				
	IP23								

FRAME	RL5030	AMPS	1686	MAX SAFE SPEED	3000				
HP	1500	DUTY	CONT	IM (AMPS)	503	R1	.00099	X1	.0161
BASE SPEED	1786	S.F.	1.0	P.F. @NL / FL	.022/.874	R2	.00094	X2	.0221
PHASE/HZ	3/60	AMB.°C / INSUL	40/H	WK ² (Lb-Ft ²)	225			XM	.536

RATED FULL LOAD DATA

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
BASE SPEED	1786	1501	4413	460	60	1686
MAX SPEED	2600	1501	3030	460	87.4	1670
MIN SPEED	0	0	4413	4.63	.478	1686

LOAD PERFORMANCE AT BASE SPEED

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	1800	0	0	460	60	503
1/4	1797	375	1097	460	60	640
1/2	1793	751	2200	460	60	934
3/4	1790	1125	3301	460	60	1291
FULL LOAD	1786	1500	4413	460	60	1686
0/L	1767	2941	8738	460	60	3423

REMARKS:
TYPICAL DATA
TYPICAL DATA



DRAWN BY: C. ETIENNE
CHECKED BY: C. ETIENNE
APPROVED BY: J. MARTIN
DATE: 10/4/21

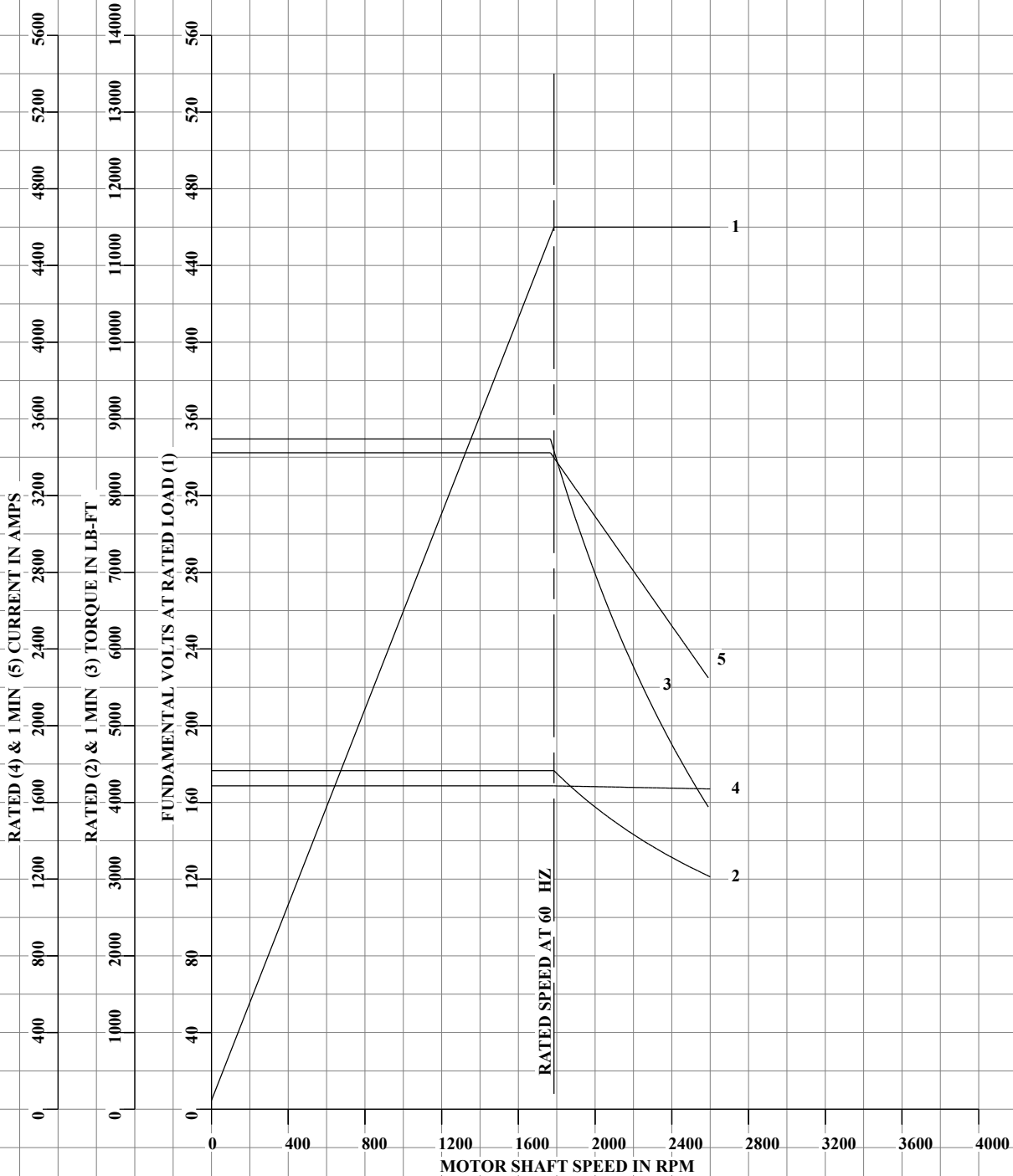
AC MOTOR
PERFORMANCE
DATA

L9084A

ISSUE DATE 10/4/21

FRAME	RL5030	VOLTS	460	ENCLOSURE	DPFV	WYE CONN EQ CKT OHMS PER PHASE (AT BASE RATING, 25°C)		
HP	1500	AMPS	1686	MAX SAFE SPEED	3000	R1	.00099	X1 .0161
BASE SPEED	1786	DUTY	CONT	IM (AMPS)	503	R2	.00094	X2 .0221
PHASE/HZ	3/60	S.F.	1.0	P.F. @NL / FL	.022/.874			XM .536
		AMB.°C / INSUL	40/H	WK ² (Lb-Ft ²)	225			

**TYPICAL DATA
VARIABLE SPEED AC MOTOR CURVES**



TYPICAL DATA, DATA VALID FOR NAMEPLATE SPEED RANGE ONLY



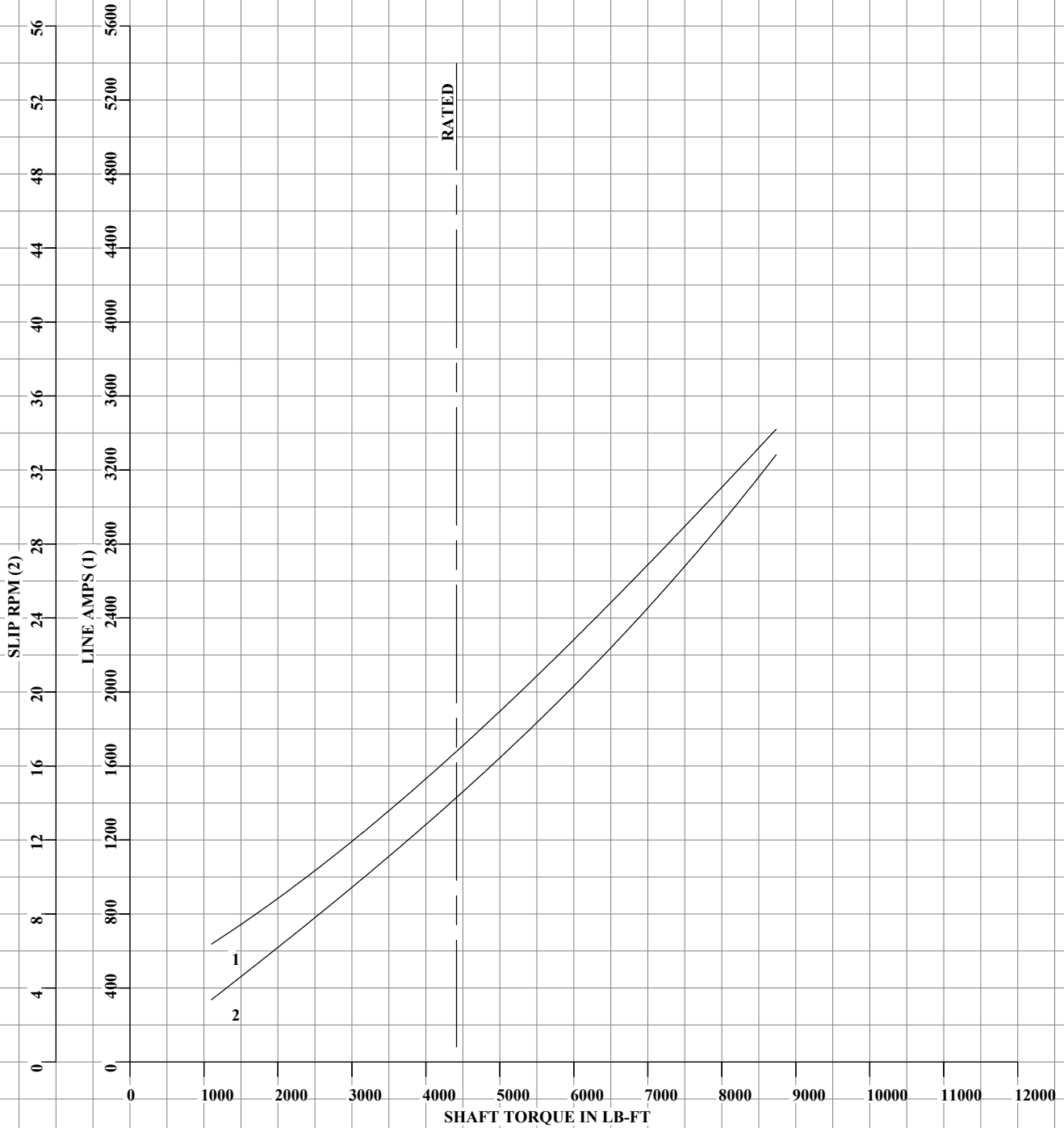
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 APPROVED BY: J. MARTIN
 DATE: 10/4/21

**AC MOTOR
PERFORMANCE
DATA**

L9084A
 ISSUE DATE: 10/4/21

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PHASE/HZ	3/60	S.F.	1.0	P.F. @NL / FL	.022/.874			XM .536
		AMB.°C / INSUL	40/H	WK ² (Lb-Ft ²)	225			

**TYPICAL DATA
LOAD PERFORMANCE (CONSTANT V/HZ RANGE)**



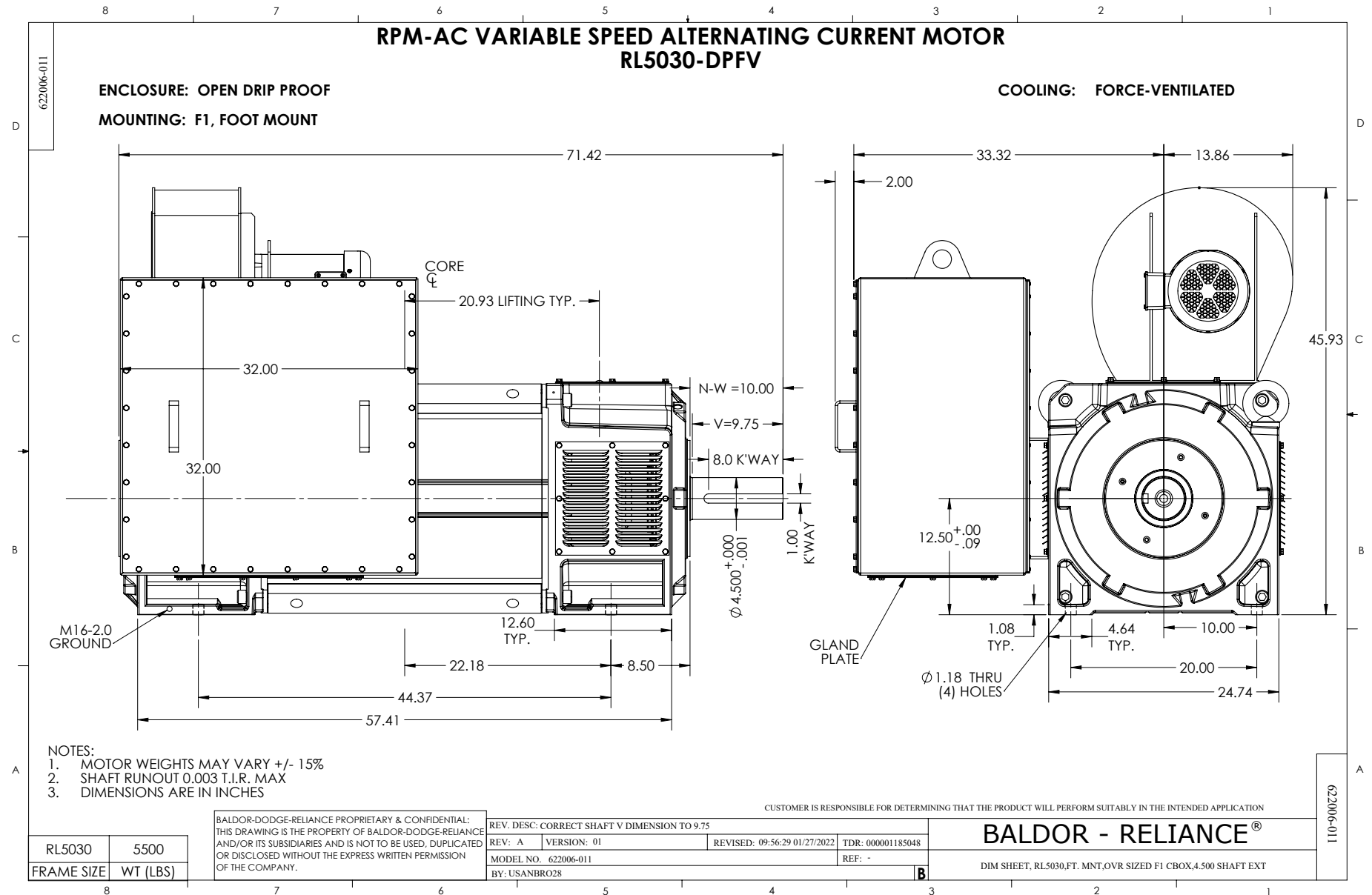
TYPICAL DATA, DATA VALID FOR NAMEPLATE SPEED RANGE ONLY



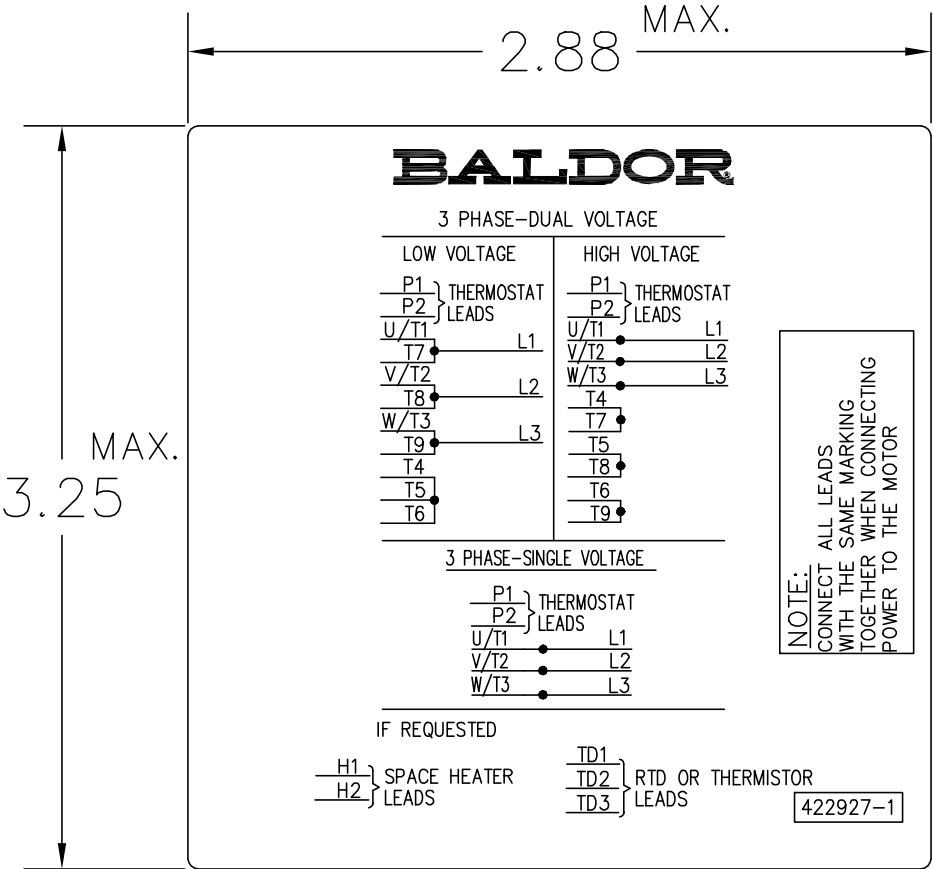
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**AC MOTOR
PERFORMANCE
DATA**

L9084A
 ISSUE DATE: 10/4/21



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