

ABB BALDOR RELIANCE III

Customer information packet

IDDRPM5818004

1800HP, 1750, 690V, RL5828, DPFV, F1

Specifications

Enclosure	DPFV
Frame	RL5828Z
Frame Material	Exposed Laminations
Frequency	60.00 Hz
Output @ Frequency	1800.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	690.0 V @ 60 HZ
Agency Approvals	CCSA US
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	1328.000 A @ 690.0 V
Duty Rating	CONT
Feedback Device	NO FEEDBACK
Frame Prefix	RL
Heater Indicator	No Heater
High Voltage Full Load Amps	1328.0 a
Insulation Class	H
IP Rating	NONE
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	75.66 IN
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.00
Shaft Diameter	4.875 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Speed	1782 rpm
Starting Method	Full Voltage

Part Detail

Revision	-
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	L9910A
Layout	627008-001
Eff. date	08-15-2025
CD Diagram	422927-001
Poles	04
Leads	
Proprietary	False
Created date	07-16-2025

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

Nameplate

000613006MY									
	DUTY	HP	RPM	AMPS	VOLTS	HZ			
	CONT	1800	1782		1328	690		60	
CAT.NO.	IDDRPM5818004		SPEC. NO.		R58-A000-0002				
SER.NO			FR	RL5828Z	INSUL	H			
PH.	3	MAX SAFE SPEED		2100	AMB.	40	MIN. AMB.	-25	
DESIGN NO.	L9910A		TYPE		ENCL.	DPG-FV			
S.F.	1.00		D.E. BRG.		130BC02J30X				
ENCL MOD			O.D.E. BRG.		6226/C3J20AA				
	IP23								

FRAME	RL5828	AMPS	1328	MAX SAFE SPEED	2100				
HP	1800	DUTY	CONT	IM (AMPS)	326	R1	.00249	X1	.0393
BASE SPEED	1782	S.F.	1.0	P.F. @NL / FL	.021/.895	R2	.00204	X2	.0341
PHASE/HZ	3/60	AMB.°C / INSUL	40/H	WK ² (Lb-Ft ²)	388			XM	1.22

RATED FULL LOAD DATA

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
BASE SPEED	1782	1800	5303	690	60	1329
MAX SPEED	1782	1800	5303	690	60	1329
MIN SPEED	0	0	5303	9.88	.595	1329

LOAD PERFORMANCE AT BASE SPEED

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	1800	0	0	690	60	326
1/4	1796	451	1318	690	60	454
1/2	1792	899	2636	690	60	707
3/4	1787	1348	3963	690	60	1004
FULL LOAD	1782	1800	5303	690	60	1329
0/L	1768	2857	8485	690	60	2216

**REMARKS:
TYPICAL DATA**

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**DRAWN BY: R.GARCIA
CHECKED BY: R.GARCIA
APPROVED BY: B.SPIRES
DATE: 07-01-25**

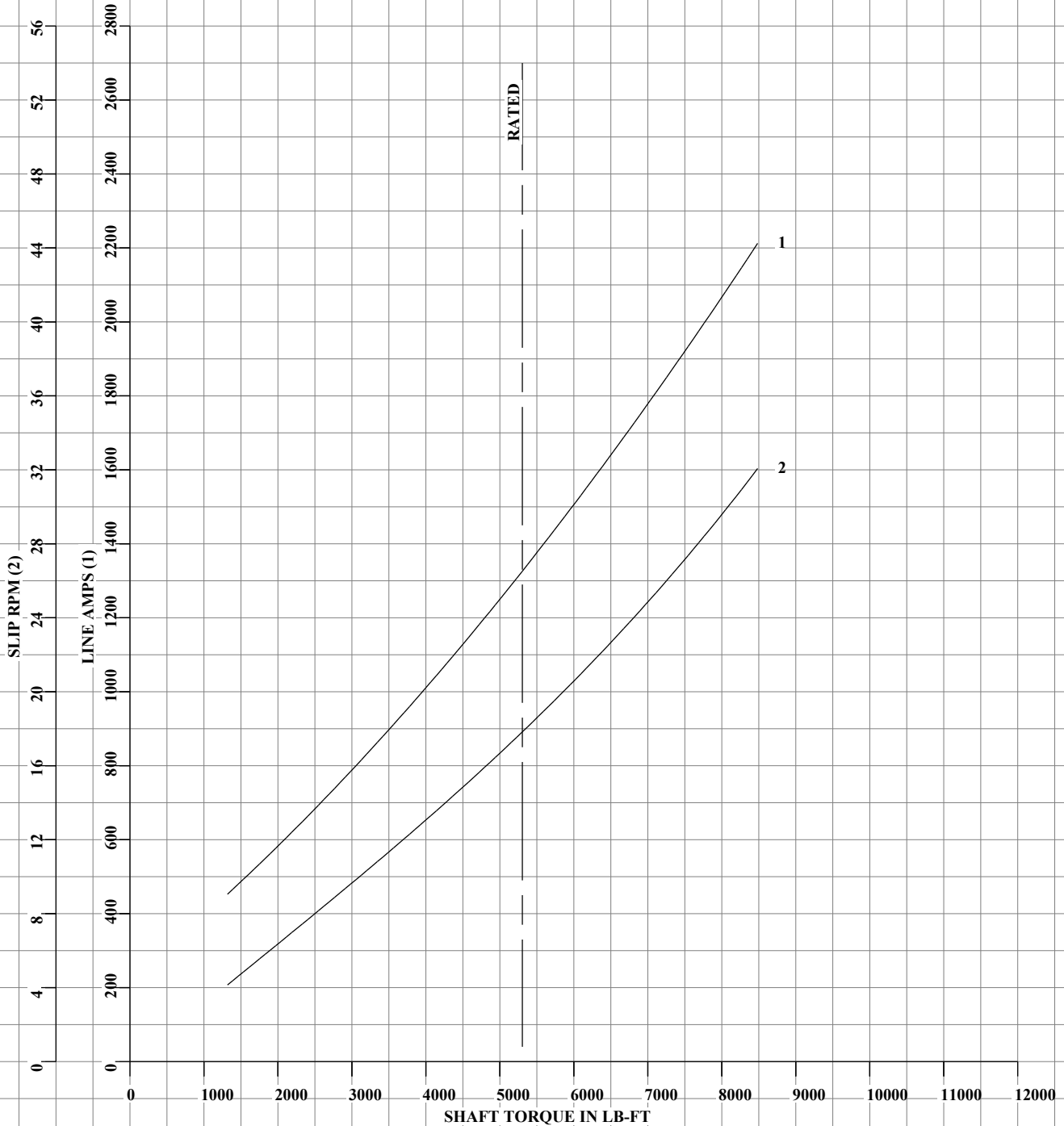
**AC MOTOR
PERFORMANCE
DATA**

L9910A

ISSUE DATE 07-01-25

FRAME	RL5828	AMPS	1328	MAX SAFE SPEED	2100				
HP	1800	DUTY	CONT	IM (AMPS)	326	R1	.00249	X1	.0393
BASE SPEED	1782	S.F.	1.0	P.F. @NL / FL	.021/.895	R2	.00204	X2	.0341
PHASE/HZ	3/60	AMB.°C / INSUL	40/H	WK ² (Lb-Ft ²)	388			XM	1.22

LOAD PERFORMANCE (CONSTANT V/HZ RANGE)



TYPICAL DATA, DATA VALID FOR NAMEPLATE SPEED RANGE ONLY



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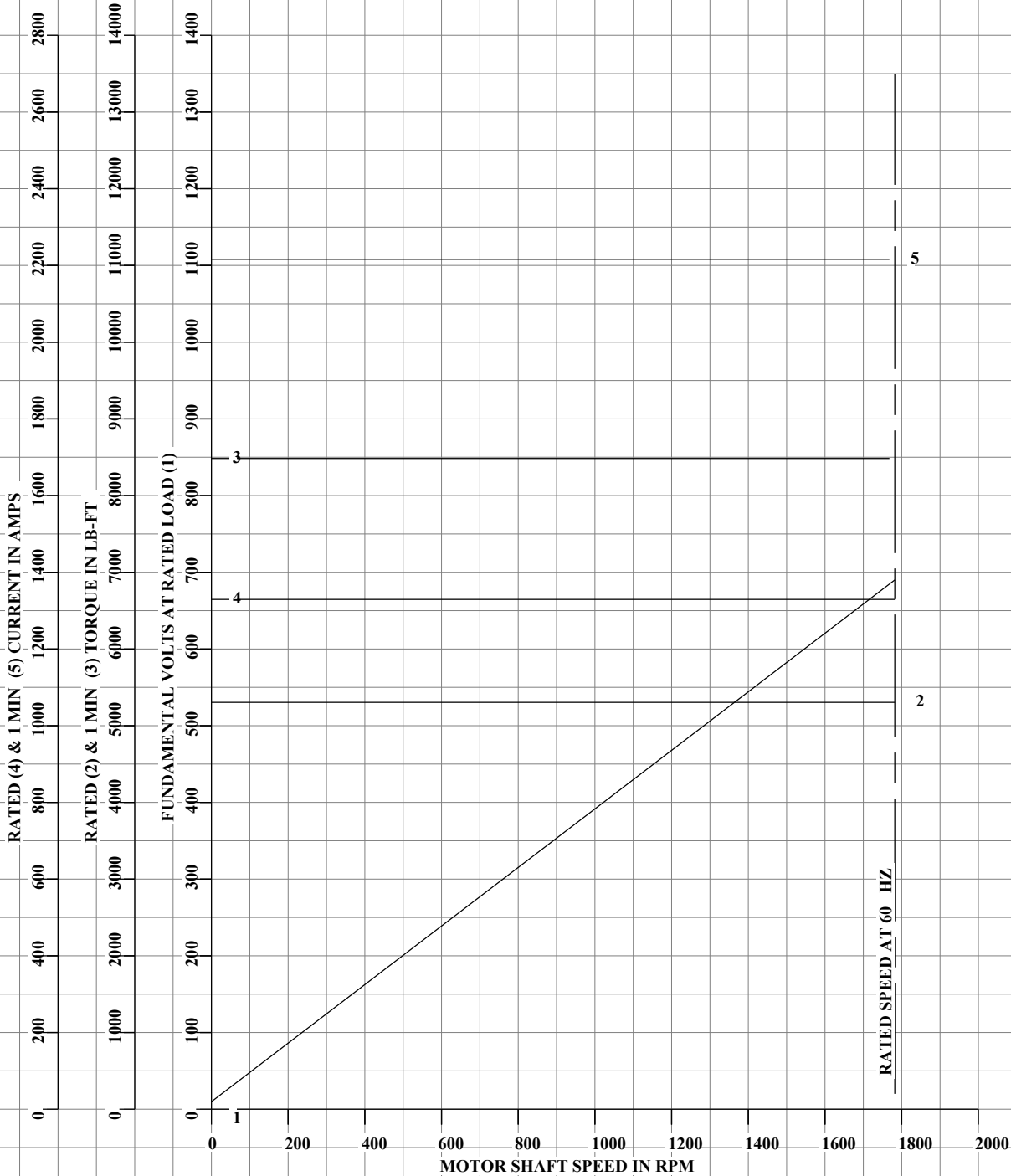
AC MOTOR
 PERFORMANCE
 DATA

L9910A

ISSUE DATE: 07-01-25

CUSTOMER INFORMATION				ENCLOSURE				WYE CONN EQ CKT OHMS PER PHASE			
FRAME	RL5828	VOLTS	690	MAX SAFE SPEED	2100	IM (AMPS)	326	R1	.00249	X1	.0393
HP	1800	DUTY	CONT	P.F. @NL / FL	.021/.895	R2	.00204	X2	.0341		
BASE SPEED	1782	AMB.°C / INSUL	40/H	WK² (Lb-Ft²)	388						
PHASE/HZ	3/60										

VARIABLE SPEED AC MOTOR CURVES



TYPICAL DATA, DATA VALID FOR NAMEPLATE SPEED RANGE ONLY

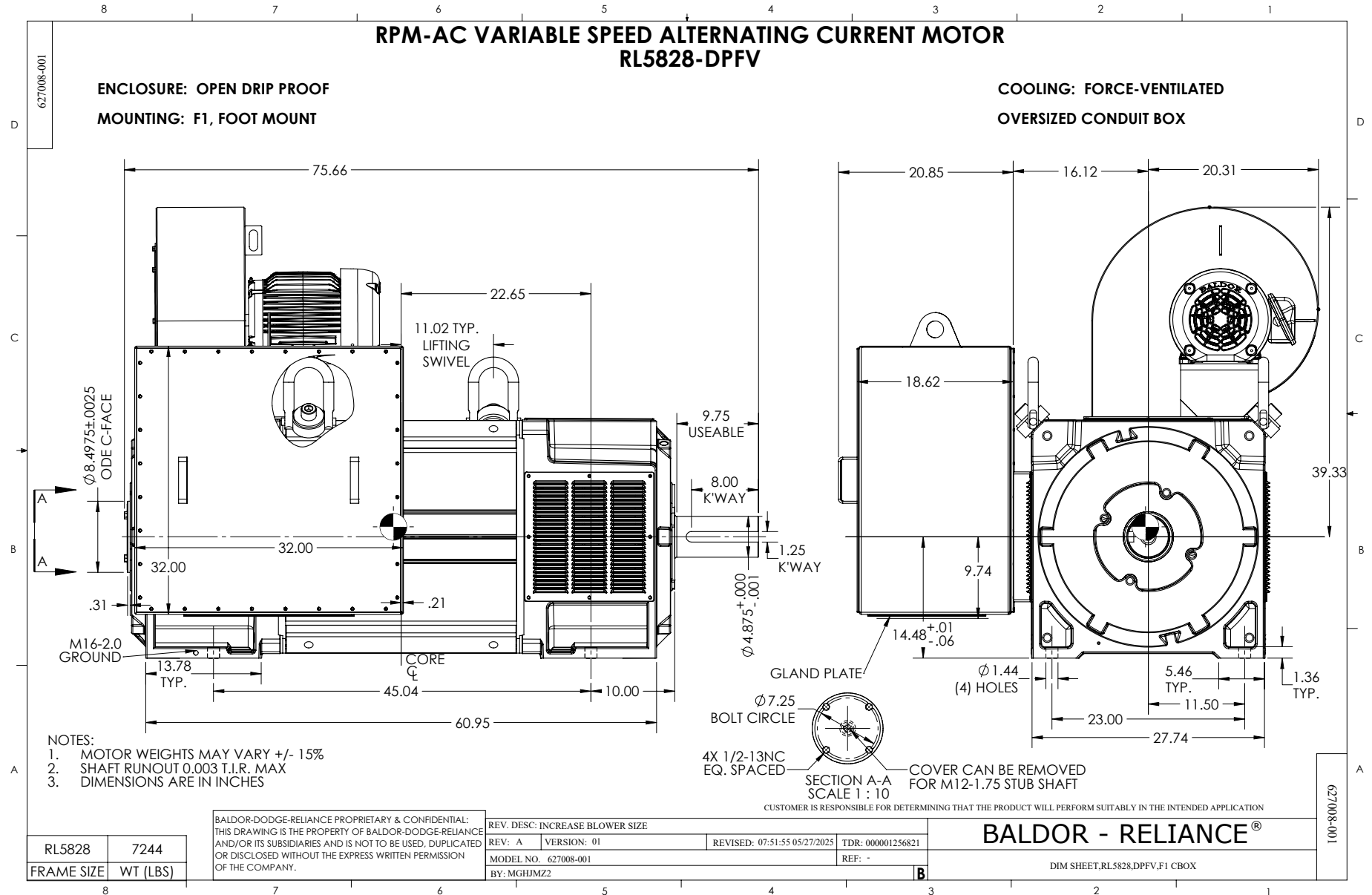


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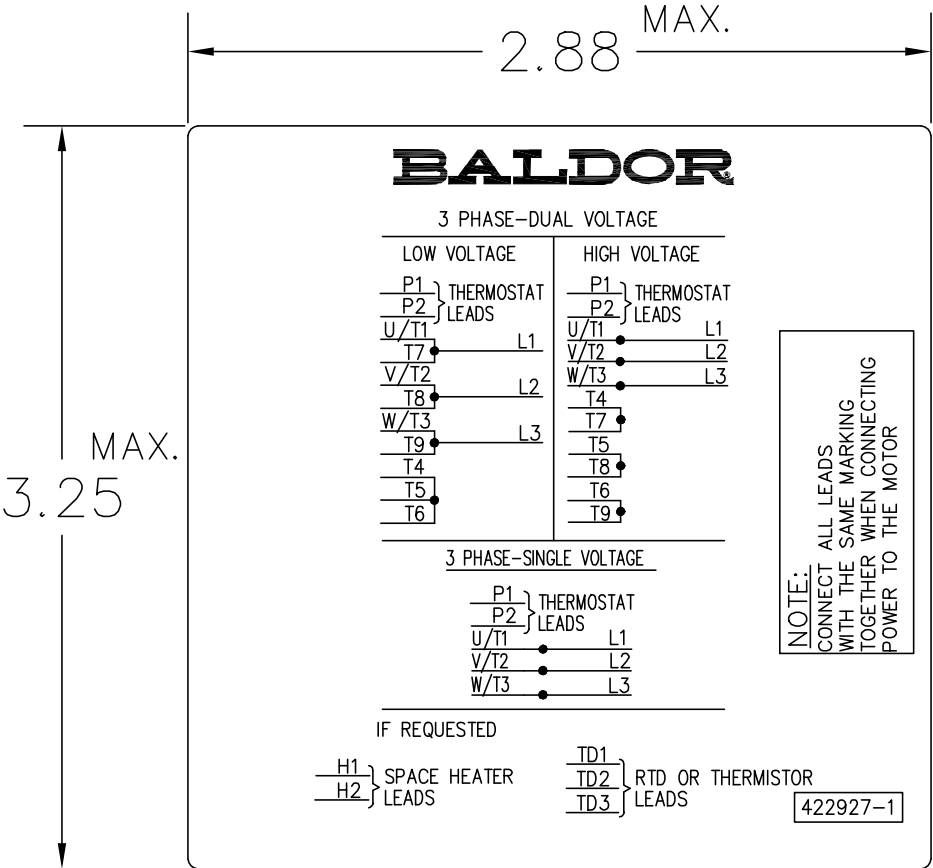
AC MOTOR
 PERFORMANCE
 DATA

L9910A

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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