

ABB BALDOR RELIANCE III

Customer information packet

IDDRPM407004R1ED

700HP, 1750, 460V, RL4058, DPFV, F1

Specifications

Enclosure	DPFV
Frame	RL4058Z
Frame Material	Exposed Laminations
Frequency	60.00 Hz
Output @ Frequency	700.000 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	777.000 A @ 460.0 V
Duty Rating	CONT
Feedback Device	NO FEEDBACK
Frame Prefix	RL
Heater Indicator	No Heater
High Voltage Full Load Amps	777.0 a
Insulation Class	H
IP Rating	NONE
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	63.12 IN
Product Family	Extruder
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.00
Shaft Diameter	3.624 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Speed	1780 rpm
Starting Method	Full Voltage

Part Detail

Revision	A
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	L9462A
Layout	619660-001
Eff. date	03-23-2023
CD Diagram	422927-001
Poles	04
Leads	
Proprietary	False
Created date	03-01-2023

Thermal Device - Bearing	None
Thermal Device - Winding	Thermostat And RTD

Nameplate

000613006ABS							
	DUTY	HP	RPM	AMPS	VOLTS	HZ	
	CONT	700	1780	778	460	60	
	CONT	700	2400	765	460	81	
CAT.NO.	IDDRPM407004R1ED		SPEC. NO.		R40-A000-0307		
SER.NO			FR	RL4058Z	INSUL	H	
PH.	3	MAX SAFE SPEED		3750	AMB.	40	MIN. AMB.
DESIGN NO.	L9462A	TYPE			ENCL.	DPG-FV	
S.F.	1.00	D.E. BRG.		95BC02J30X			
ENCL MOD			O.D.E. BRG.	6316/C3VL0241			
	IP23						

FRAME	RL4058	AMPS	778	MAX SAFE SPEED	3750				
HP	700	DUTY	CONT	IM (AMPS)	216	R1	.00430	X1	.0342
BASE SPEED	1780	S.F.	1.0	P.F. @NL / FL	.036/.899	R2	.00266	X2	.0385
PHASE/HZ	3/60	AMB.°C / INSUL	40/H	WK ² (Lb-Ft ²)	98			XM	1.26

RATED FULL LOAD DATA

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
BASE SPEED	1781	700	2065	460	60	778
MAX SPEED	2404	701	1531	460	81	765
MIN SPEED	0	0	2065	10.0	.635	778

LOAD PERFORMANCE AT BASE SPEED

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	1800	0	0	460	60	211
1/4	1796	175	513	460	60	286
1/2	1791	350	1028	460	60	429
3/4	1786	525	1544	460	60	596
FULL LOAD	1781	700	2065	460	60	778
0/L	1756	1381	4129	460	60	1611

REMARKS:
TYPICAL DATA



DRAWN BY: A. BROOKINS
CHECKED BY: R.GARCIA
APPROVED BY: J. MARTIN
DATE: 3-16-23

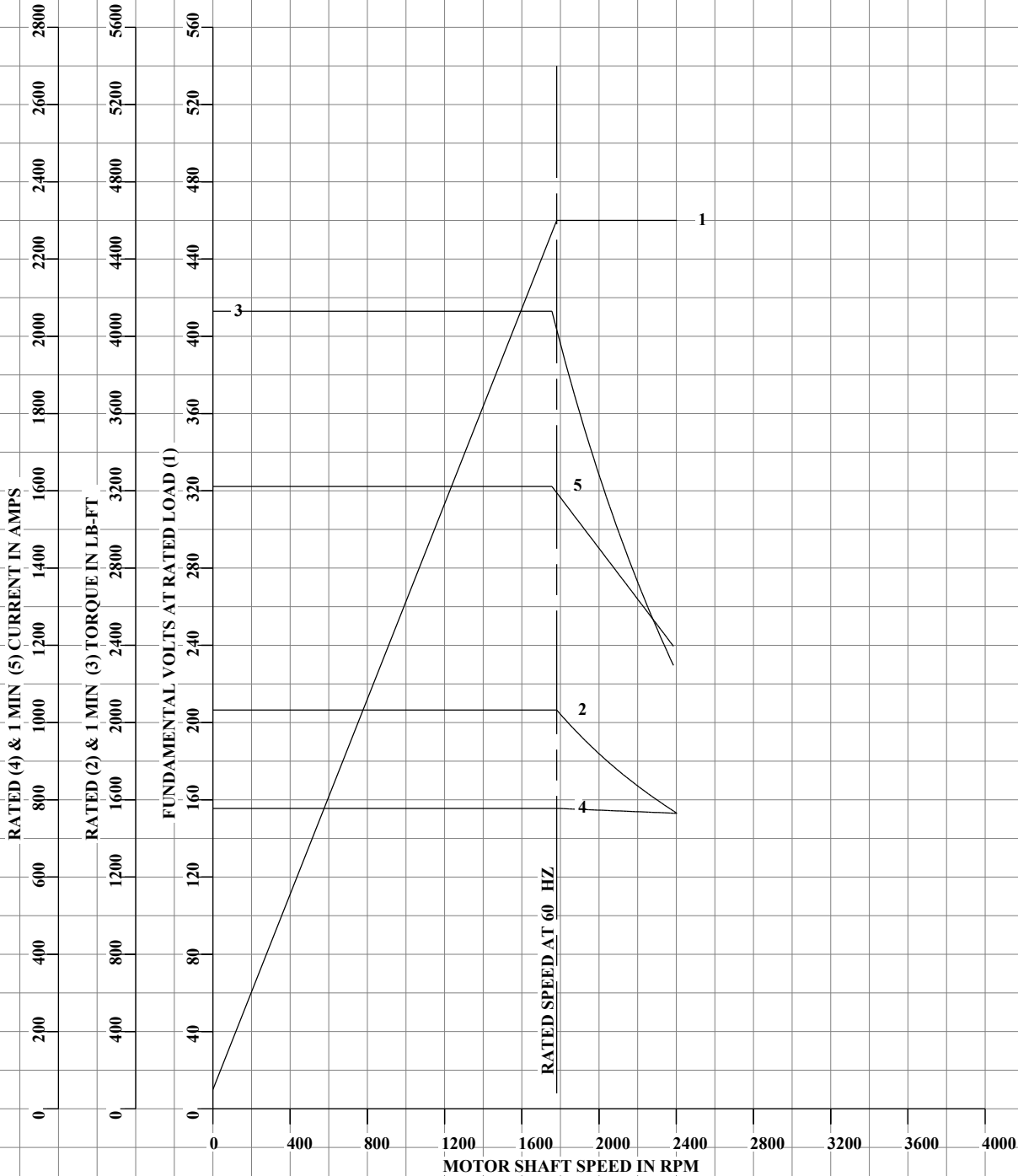
**AC MOTOR
PERFORMANCE
DATA**

L9462A

ISSUE DATE 3-16-23

FRAME	RL4058	VOLTS	460	ENCLOSURE	DPFV	WYE CONNECT OHMS PER PHASE (AT BASE RATING, 25°C)		
HP	700	AMPS	778	MAX SAFE SPEED	3750	R1	.00430	X1 .0342
BASE SPEED	1780	DUTY	CONT	IM (AMPS)	216	R2	.00266	X2 .0385
PHASE/HZ	3/60	S.F.	1.0	P.F. @NL / FL	.036/.899			XM 1.26
		AMB.°C / INSUL	40/H	WK ² (Lb-Ft ²)	98			

VARIABLE SPEED AC MOTOR CURVES



TYPICAL DATA, DATA VALID FOR NAMEPLATE SPEED RANGE ONLY



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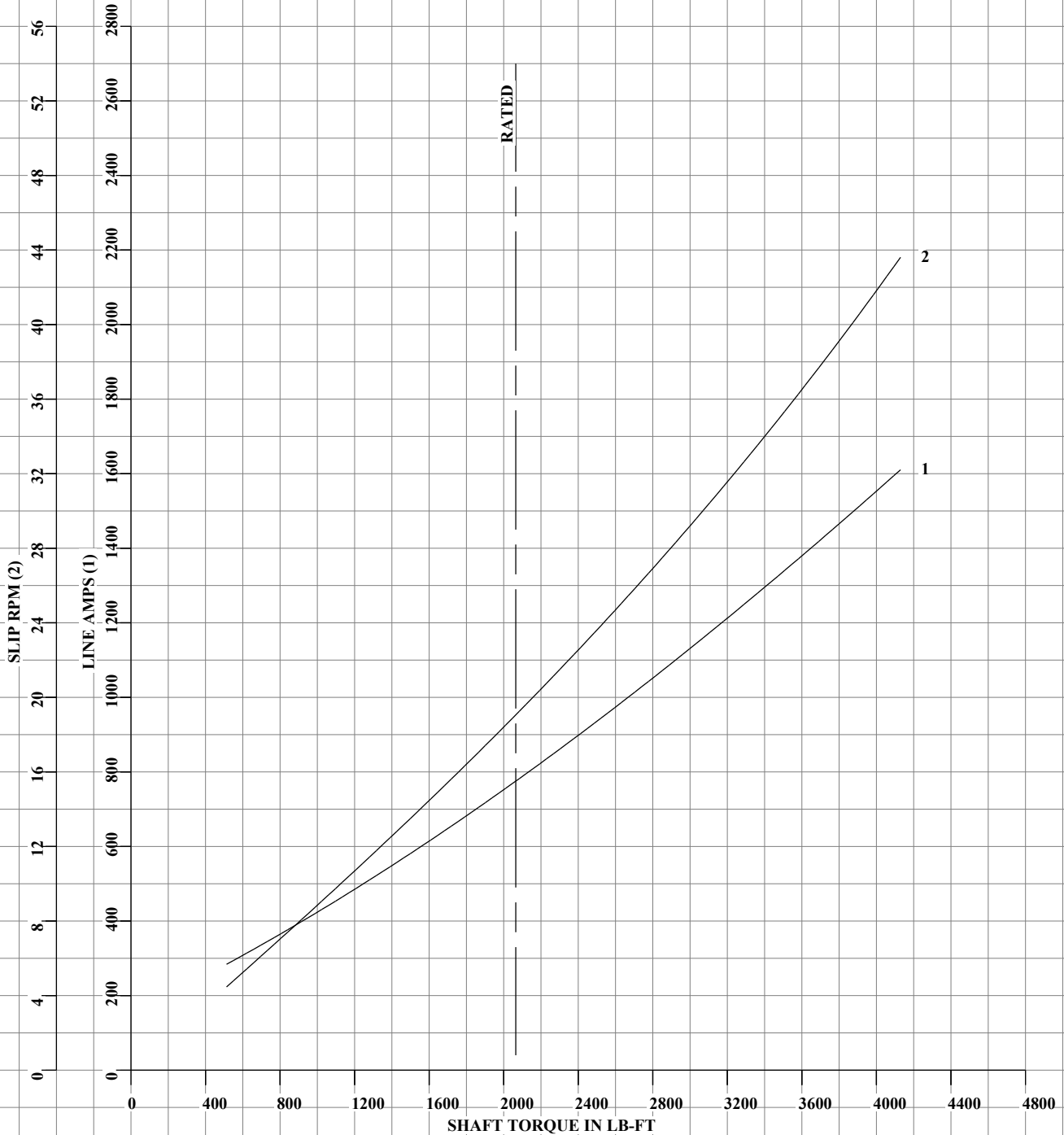
**AC MOTOR
PERFORMANCE
DATA**

L9462A

ISSUE DATE: 3-16-23

FRAME		VOLTS		ENCLOSURE		WYE CONN EQ CKT OHMS PER PHASE (AT BASE RATING, 25°C)		
RL4058		AMPS	778	MAX SAFE SPEED	3750			
HP	700	DUTY	CONT	IM (AMPS)	216	R1	.00430	X1 .0342
BASE SPEED	1780	S.F.	1.0	P.F. @NL / FL	.036/.899	R2	.00266	X2 .0385
PHASE/HZ	3/60	AMB.°C / INSUL	40/H	WK ² (Lb-Ft ²)	98			XM 1.26

LOAD PERFORMANCE (CONSTANT V/HZ RANGE)



TYPICAL DATA, DATA VALID FOR NAMEPLATE SPEED RANGE ONLY

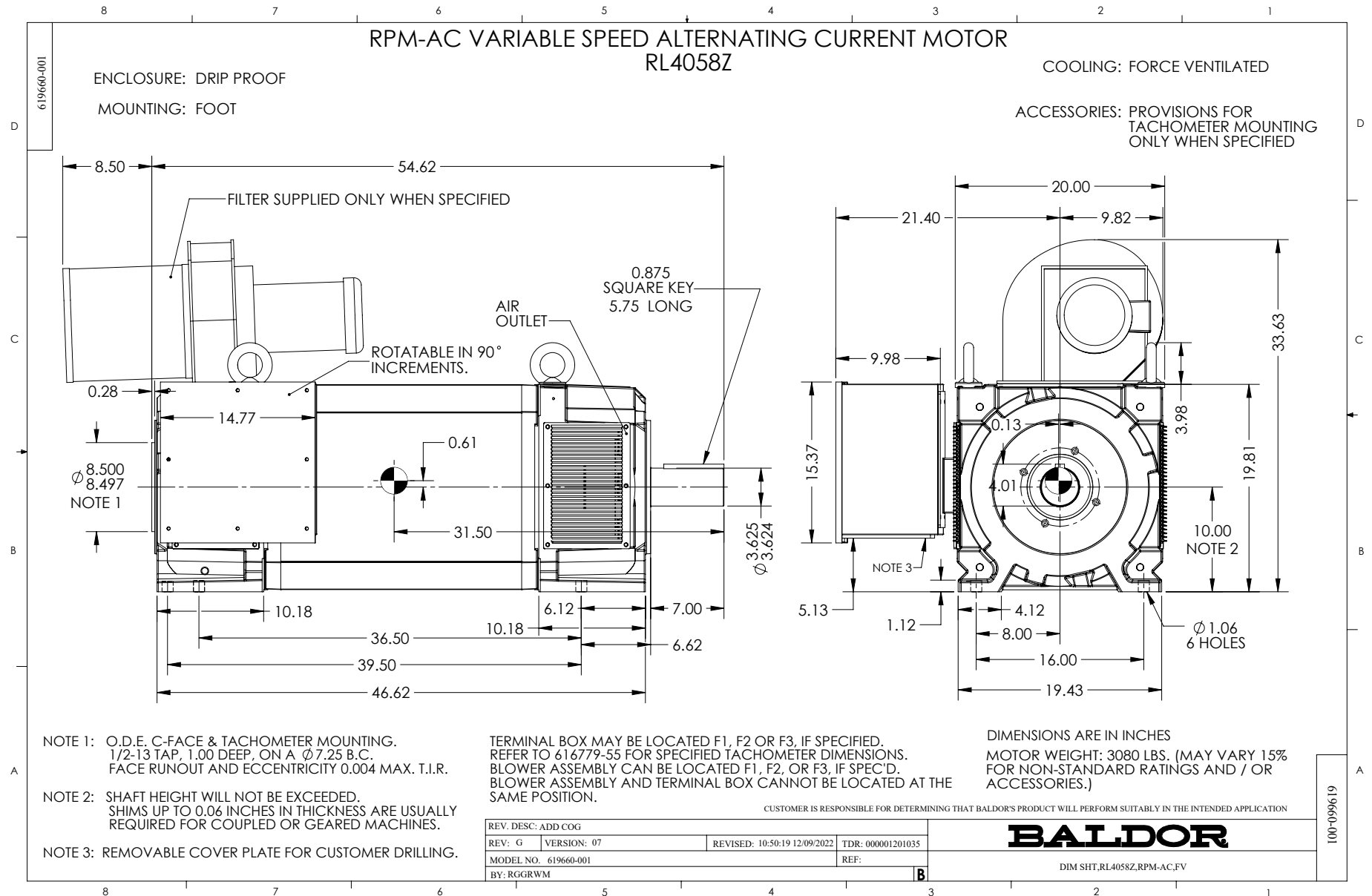


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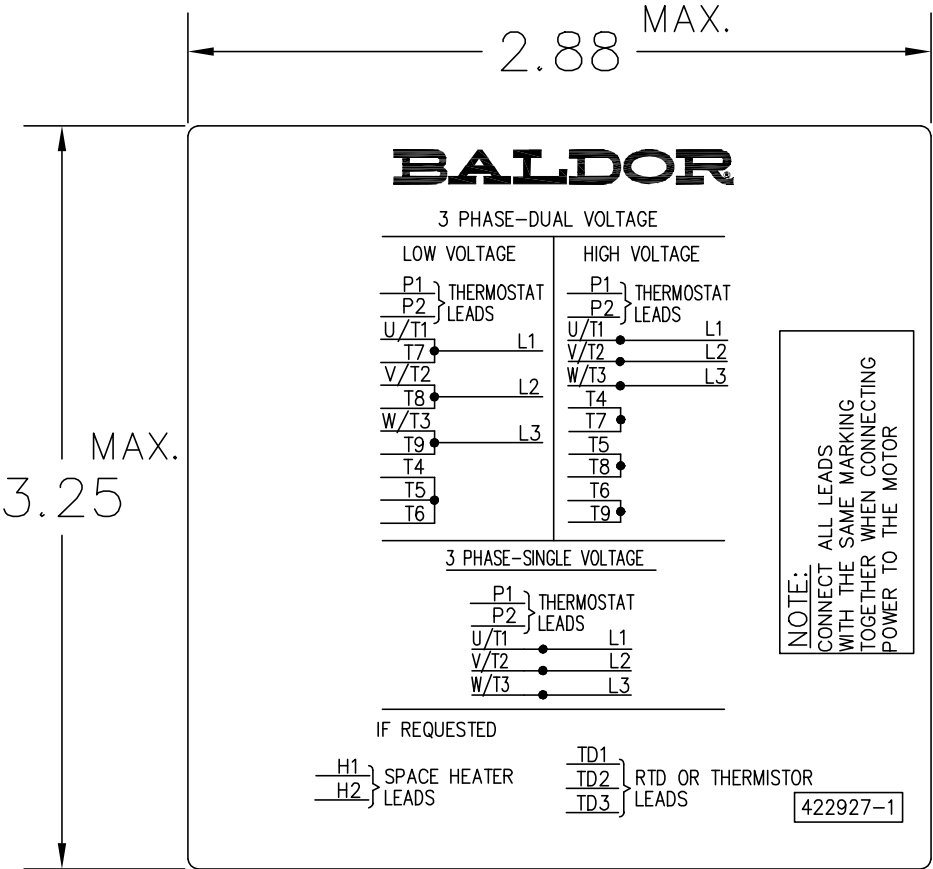
AC MOTOR
 PERFORMANCE
 DATA

L9462A

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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