

ABB BALDOR RELIANCE III

Customer information packet

IDDRPM407004R1

700HP, 1780/2400, 460V, RL4058, DPFV, F1

Specifications

Enclosure	DPFV
Frame	RL4058
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
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	54.62 IN
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Service Factor	1.00
Shaft Diameter	3.624 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Speed	1780 rpm
Starting Method	Full Voltage
Thermal Device - Bearing	None

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	02-03-2023

Thermal Device - Winding

Normally Closed Thermostat

Nameplate

000613006MY							
	DUTY	HP	RPM	AMPS	VOLTS	HZ	
	CONT	700	1780		778	460	60
	CONT	700	2400		765	460	81
CAT.NO.	IDDRPM407004R1		SPEC. NO.		R40-A000-0301		
SER.NO			FR	RL 4058	INSUL	H	
PH.	3	MAX SAFE SPEED		3750	AMB.	40	MIN. AMB. -25
DESIGN NO.	L9462A		TYPE		ENCL.	DP	
S.F.	1.00		D.E. BRG.		95BC02J30X		
ENCL MOD	FORCE VENT		O.D.E. BRG.		6316/C3VL0241		

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

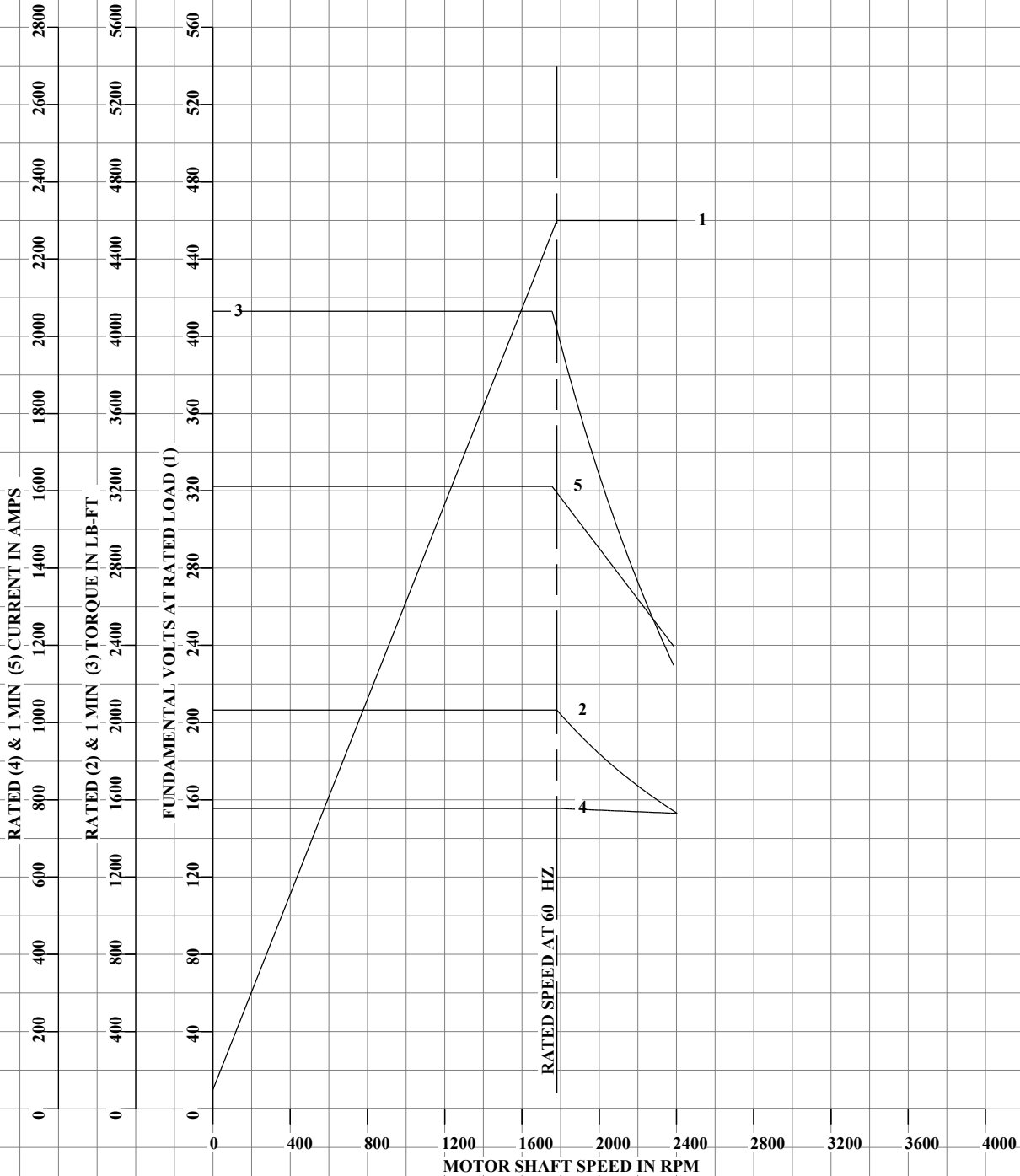
	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	1800	0	0	460	60	211
1/4	1796	175	513	460	60	286
1/2	1791	350	1028	460	60	429
3/4	1786	525	1544	460	60	596
FULL LOAD	1781	700	2065	460	60	778
0/L	1756	1381	4129	460	60	1611

**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 CONN EQ CRT 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



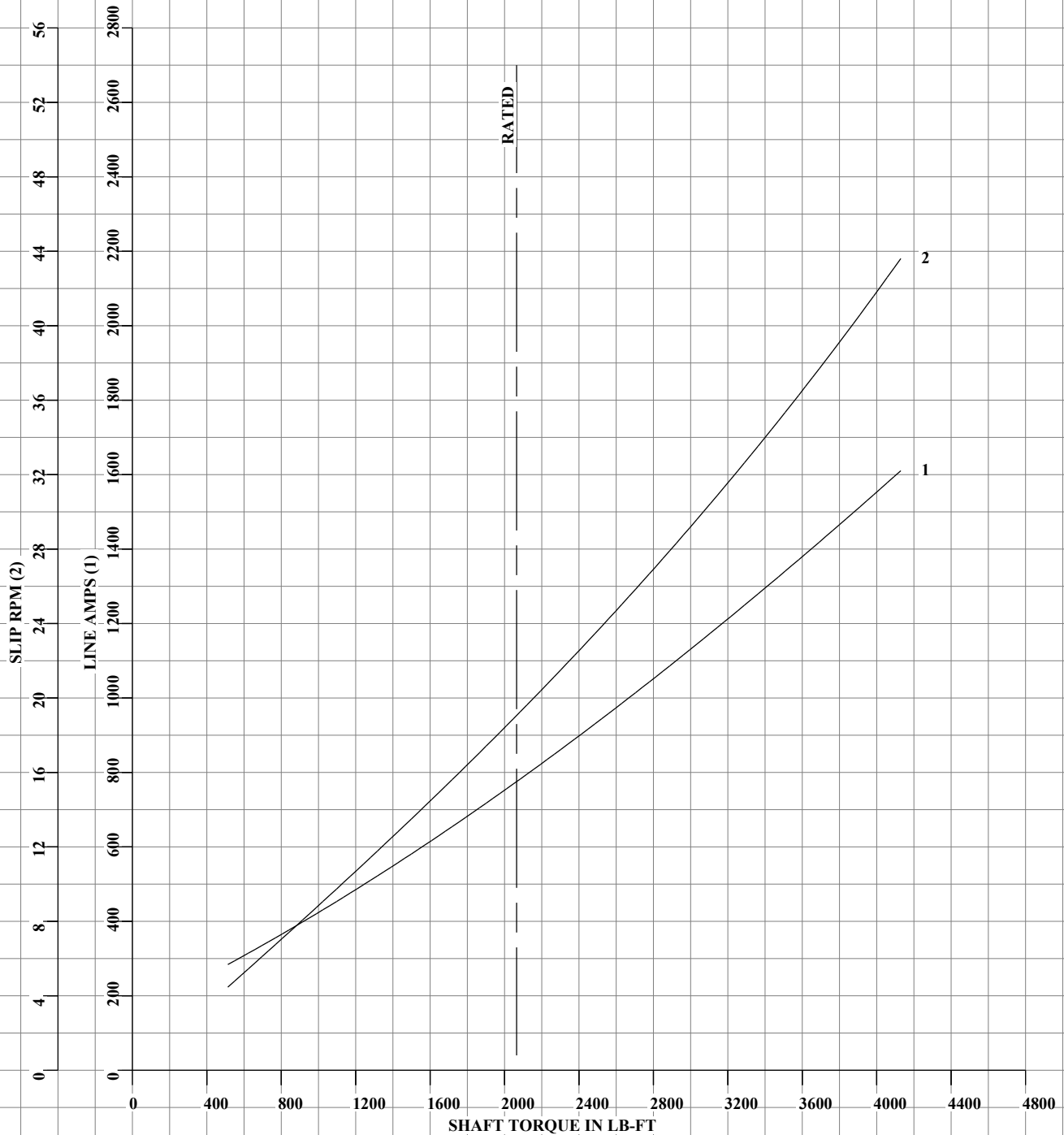
DRAWN BY: A. BROOKINS
 CHECKED BY: R.GARCIA
 APPROVED BY: J. MARTIN
 DATE: 3-16-23

**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			

LOAD PERFORMANCE (CONSTANT V/HZ RANGE)



TYPICAL DATA, DATA VALID FOR NAMEPLATE SPEED RANGE ONLY

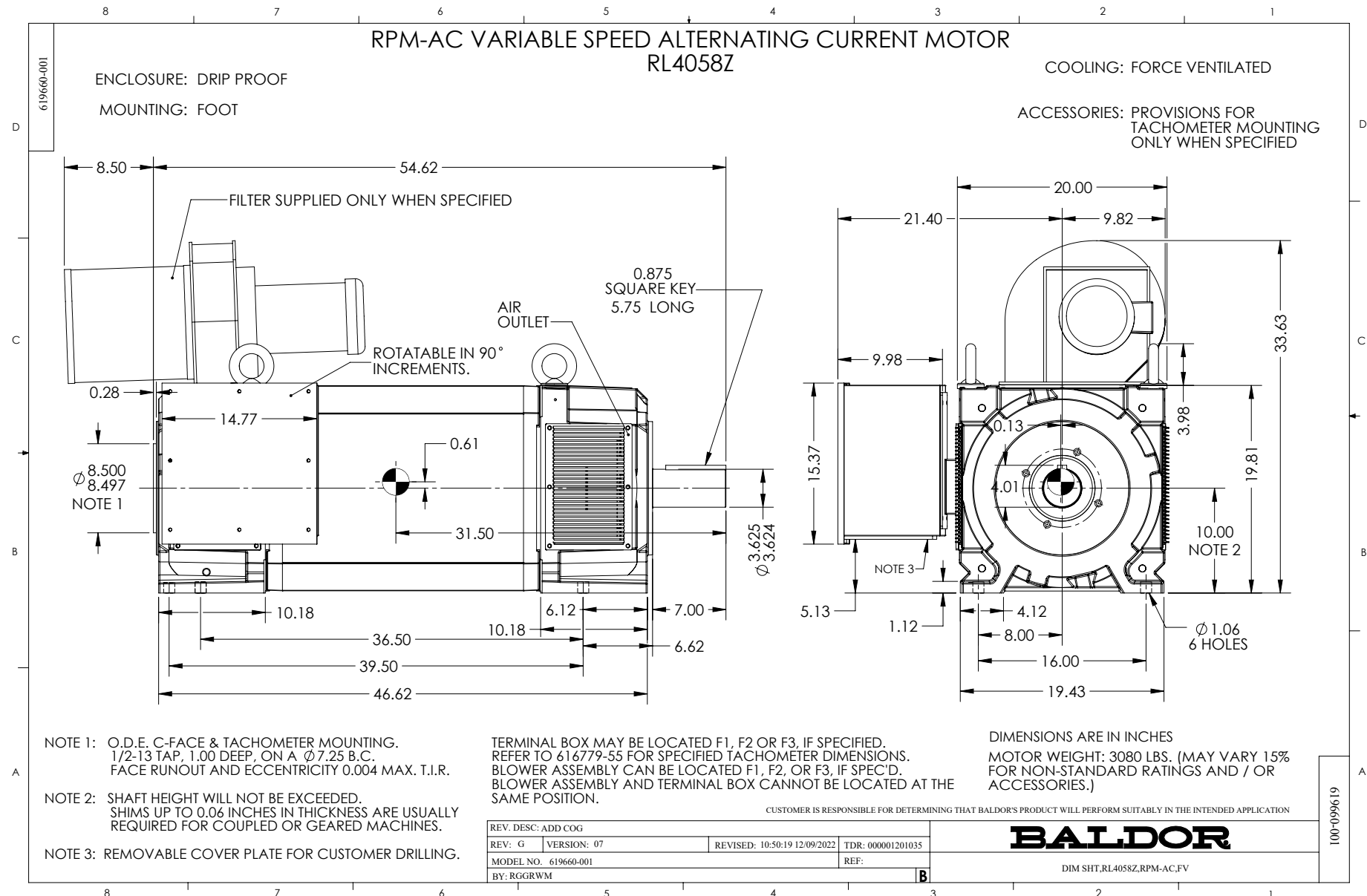


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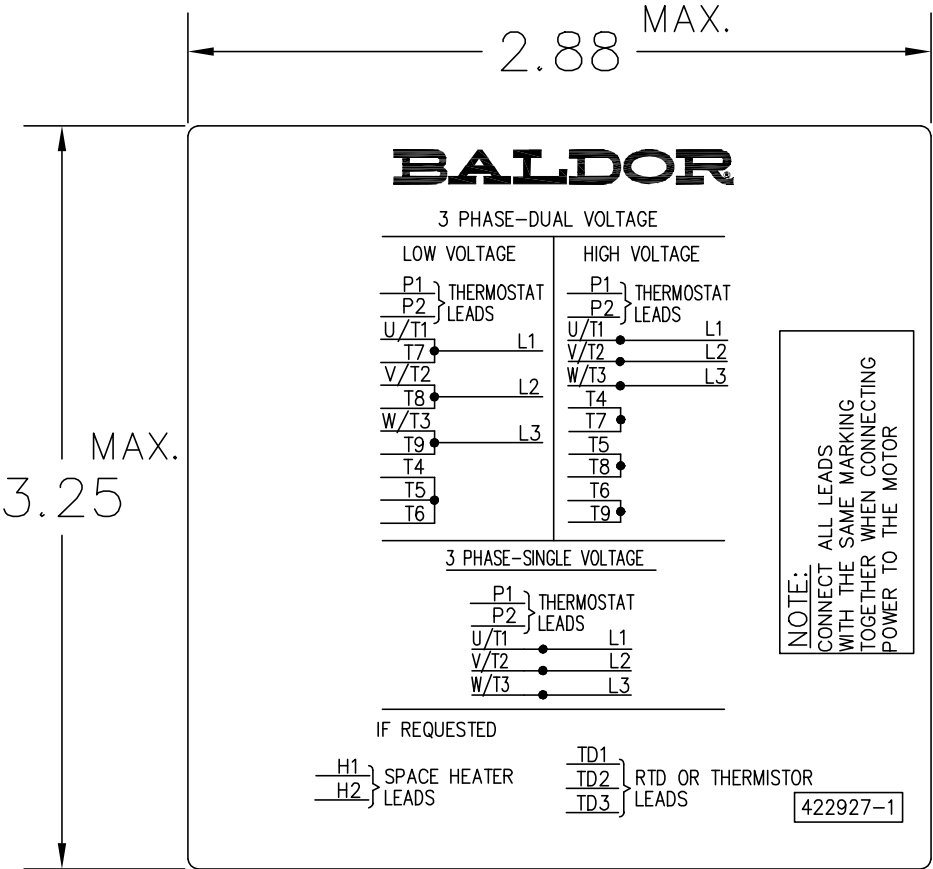
AC MOTOR
 PERFORMANCE
 DATA

L9462A

ISSUE DATE: 3-16-23



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