

ABB BALDOR RELIANCE III

Customer information packet

IDDRPM5010006

1000HP, 1150, 460V, RL5024, DPFV, F1

Specifications

Enclosure	DPFV
Frame	RL5024Z
Frame Material	Exposed Laminations
Frequency	39.00 Hz
Output @ Frequency	1000.000 HP @ 39 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 39 HZ
Voltage @ Frequency	460.0 V @ 39 HZ
Agency Approvals	CCSA US
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	1152.000 A @ 460.0 V
Duty Rating	CONT
Feedback Device	ENCODER
Frame Prefix	RL
Heater Indicator	No Heater
High Voltage Full Load Amps	1152.0 a
Insulation Class	H
IP Rating	NONE
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	65.51 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	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1150 rpm
Starting Method	Full Voltage

Part Detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	L9076A
Layout	622012-011
Eff. date	08-24-2023
CD Diagram	422927-001
Poles	04
Leads	
Proprietary	False
Created date	11-11-2021

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

Nameplate

000613006MY									
	DUTY	HP	RPM	AMPS	VOLTS	HZ			
	CONT	1000	1150		1152	460	39		
	CONT	1000	1725		1157	460	58.5		
CAT.NO.	IDDRPM5010006			SPEC. NO.		R50-A000-0008			
SER.NO				FR	RL5024Z	INSUL	H		
PH.	3	MAX SAFE SPEED			3000	AMB.	40	MIN. AMB.	-25
DESIGN NO.	L9076A		TYPE			ENCL.	DPG-FV		
S.F.	1.00		D.E. BRG.		120BC02J30X				
ENCL MOD			O.D.E. BRG.		6224/C3J20AA				
	IP23								

FRAME	RL5024	AMPS	1152	MAX SAFE SPEED	3000				
HP	1000	DUTY	CONT	IM (AMPS)	334	R1	.00273	X1	.0285
BASE SPEED	1150	S.F.	1.0	P.F. @NL / FL	.023/.868	R2	.00249	X2	.0342
PHASE/HZ	3/39	AMB.°C / INSUL	40/H	WK ² (Lb-Ft ²)	182			XM	.809

RATED FULL LOAD DATA

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
BASE SPEED	1153	1001	4558	460	39	1150
MAX SPEED	1727	1001	3043	460	58.5	1154
MIN SPEED	0	0	4558	8.82	.577	1150

LOAD PERFORMANCE AT BASE SPEED

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	1170	0	0	460	39	334
1/4	1166	251	1129	460	39	427
1/2	1162	500	2259	460	39	628
3/4	1158	750	3402	460	39	877
FULL LOAD	1153	1000	4558	460	39	1150
0/L	1137	1639	7566	460	39	1964

REMARKS:
TYPICAL DATA
TYPICAL DATA



DRAWN BY: C. ETIENNE
 CHECKED BY: C. ETIENNE
 APPROVED BY: J. MARTIN
 DATE: 9/14/21

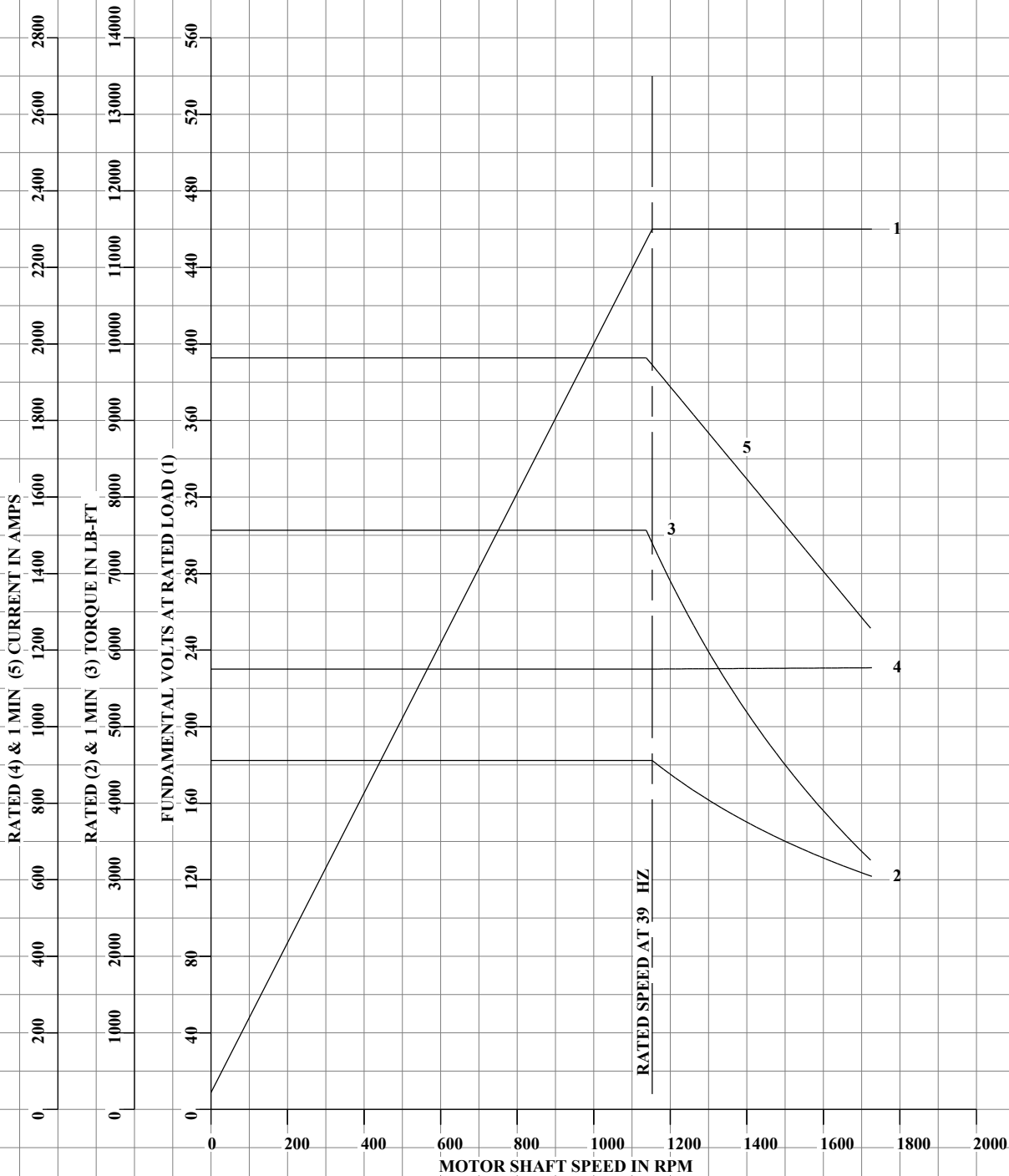
**AC MOTOR
PERFORMANCE
DATA**

L9076A

ISSUE DATE 9/14/21

FRAME	RL5024	VOLTS	460	ENCLOSURE	DPFV	WYE CONN EQ CKT OHMS PER PHASE (AT BASE RATING, 25°C)		
HP	1000	AMPS	1152	MAX SAFE SPEED	3000	R1	.00273	X1 .0285
BASE SPEED	1150	DUTY	CONT	IM (AMPS)	334	R2	.00249	X2 .0342
PHASE/HZ	3/39	S.F.	1.0	P.F. @NL / FL	.023/.868			XM .809
		AMB.°C / INSUL	40/H	WK ² (Lb-Ft ²)	182			

**TYPICAL DATA
VARIABLE SPEED AC MOTOR CURVES**



TYPICAL DATA, DATA VALID FOR NAMEPLATE SPEED RANGE ONLY



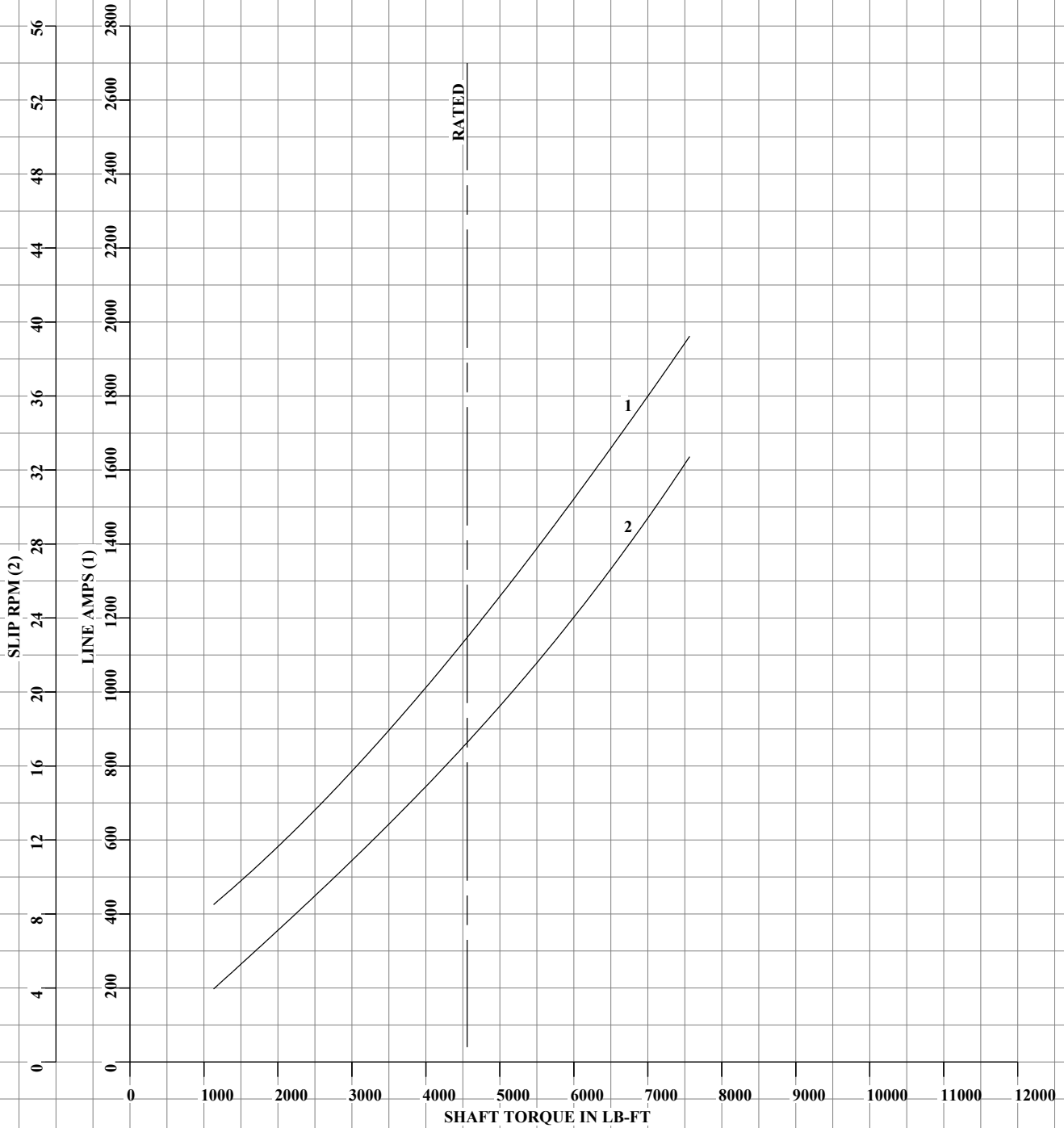
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APPROVED BY: J. MARTIN
DATE: 9/14/21**

**AC MOTOR
PERFORMANCE
DATA**

**L9076A
ISSUE DATE: 9/14/21**

FRAME	RL5024	VOLTS	460	ENCLOSURE	DPFV	WYE CONN EQ CKT OHMS PER PHASE (AT BASE RATING, 25°C)		
HP	1000	AMPS	1152	MAX SAFE SPEED	3000	R1	.00273	X1 .0285
BASE SPEED	1150	DUTY	CONT	IM (AMPS)	334	R2	.00249	X2 .0342
PHASE/HZ	3/39	S.F.	1.0	P.F. @NL / FL	.023/.868			XM .809
		AMB.°C / INSUL	40/H	WK² (Lb-Ft²)	182			

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



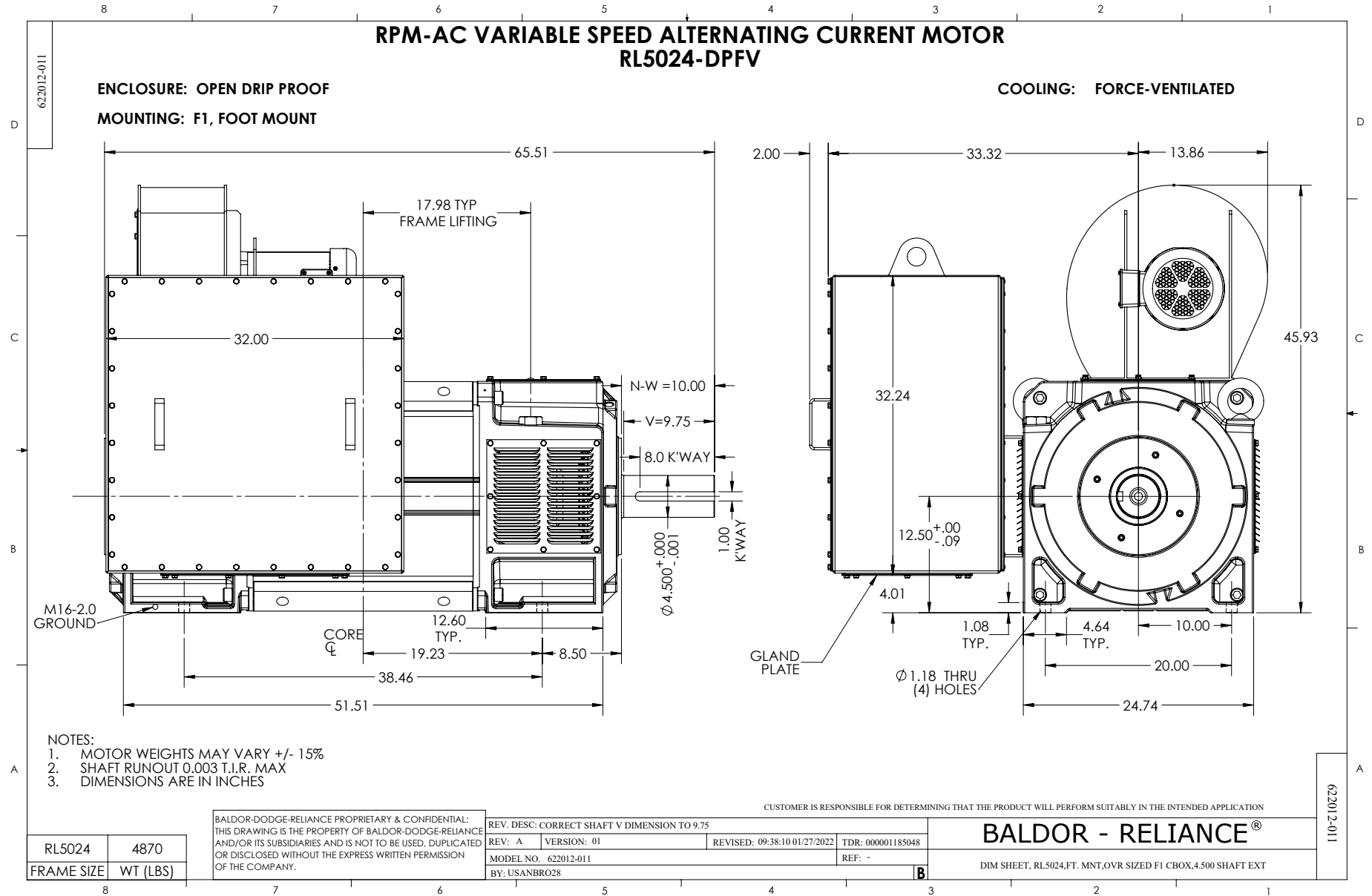
TYPICAL DATA, DATA VALID FOR NAMEPLATE SPEED RANGE ONLY



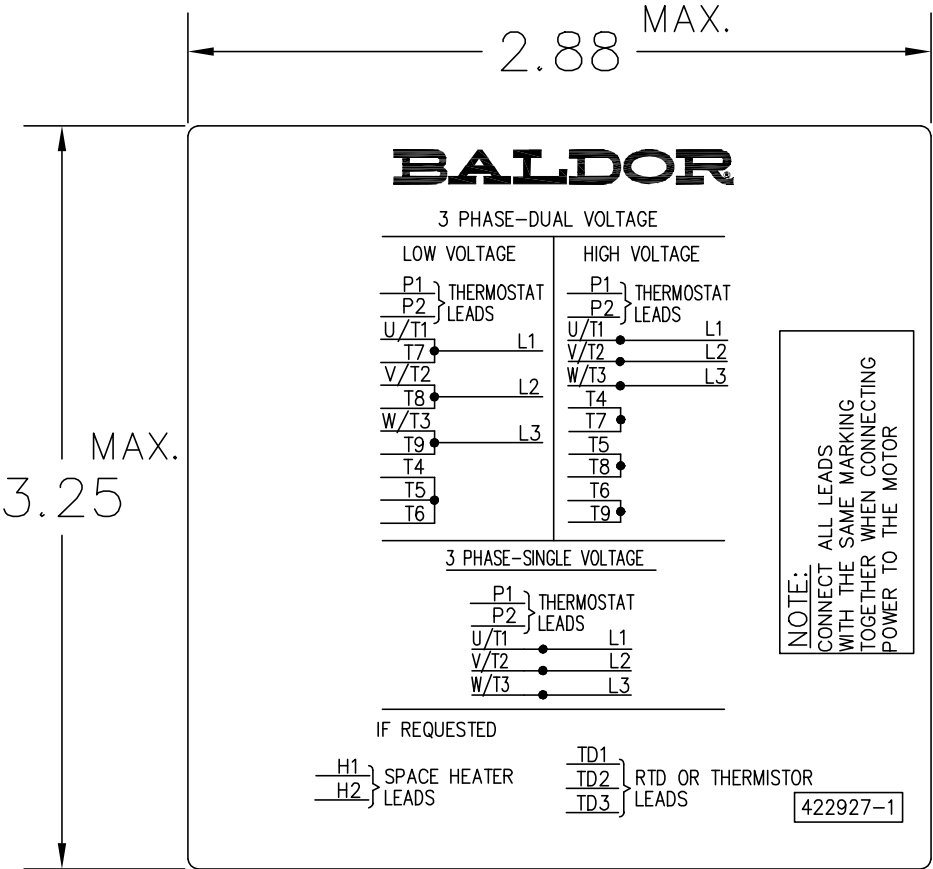
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**AC MOTOR
PERFORMANCE
DATA**

**L9076A
ISSUE DATE: 9/14/21**



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