

ABB BALDOR RELIANCE III

Customer information packet

IDDRPM509006

900HP, 1150, 460V, RL5024, DPFV, F1

Specifications

Enclosure	DPFV
Frame	RL5024Z
Frame Material	Exposed Laminations
Frequency	389.00 Hz
Output @ Frequency	900.000 HP @ 389 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 389 HZ
Voltage @ Frequency	460.0 V @ 389 HZ
Agency Approvals	CCSA US
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	1031.000 A @ 460.0 V
Duty Rating	CONT
Feedback Device	ENCODER
Frame Prefix	RL
Heater Indicator	No Heater
High Voltage Full Load Amps	1031.0 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	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.	L9079A
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	900	1150		1031	460		38.9	
	CONT	900	1725		1036	460		58.5	
CAT.NO.	IDDRPM509006		SPEC. NO.		R50-A000-0009				
SER.NO			FR	RL5024Z	INSUL	H			
PH.	3	MAX SAFE SPEED		3000	AMB.	40	MIN. AMB.	-25	
DESIGN NO.	L9079A		TYPE			ENCL.	DPG-FV		
S.F.	1.00		D.E. BRG.		120BC02J30X				
ENCL MOD			O.D.E. BRG.		6224/C3J20AA				
	IP23								

FRAME	RL5024	AMPS	1030	MAX SAFE SPEED	3000				
HP	900	DUTY	CONT	IM (AMPS)	294	R1	.00297	X1	.0307
BASE SPEED	1150	S.F.	1.0	P.F. @NL / FL	.023/.873	R2	.00270	X2	.0379
PHASE/HZ	3/38.9	AMB.°C / INSUL	40/H	WK ² (Lb-Ft ²)	182			XM	.921

RATED FULL LOAD DATA

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
BASE SPEED	1150	901	4110	460	38.9	1029
MAX SPEED	1728	900	2735	460	58.5	1034
MIN SPEED	0	0	4110	8.56	.556	1029

LOAD PERFORMANCE AT BASE SPEED

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	1167	0	0	460	38.9	294
1/4	1163	226	1019	460	38.9	379
1/2	1159	450	2038	460	38.9	561
3/4	1155	675	3068	460	38.9	783
FULL LOAD	1150	900	4110	460	38.9	1029
0/L	1134	1519	7029	460	38.9	1812

REMARKS:
TYPICAL DATA
TYPICAL DATA



DRAWN BY: C. ETIENNE
CHECKED BY: C. ETIENNE
APPROVED BY: J. MARTIN
DATE: 9/23/21

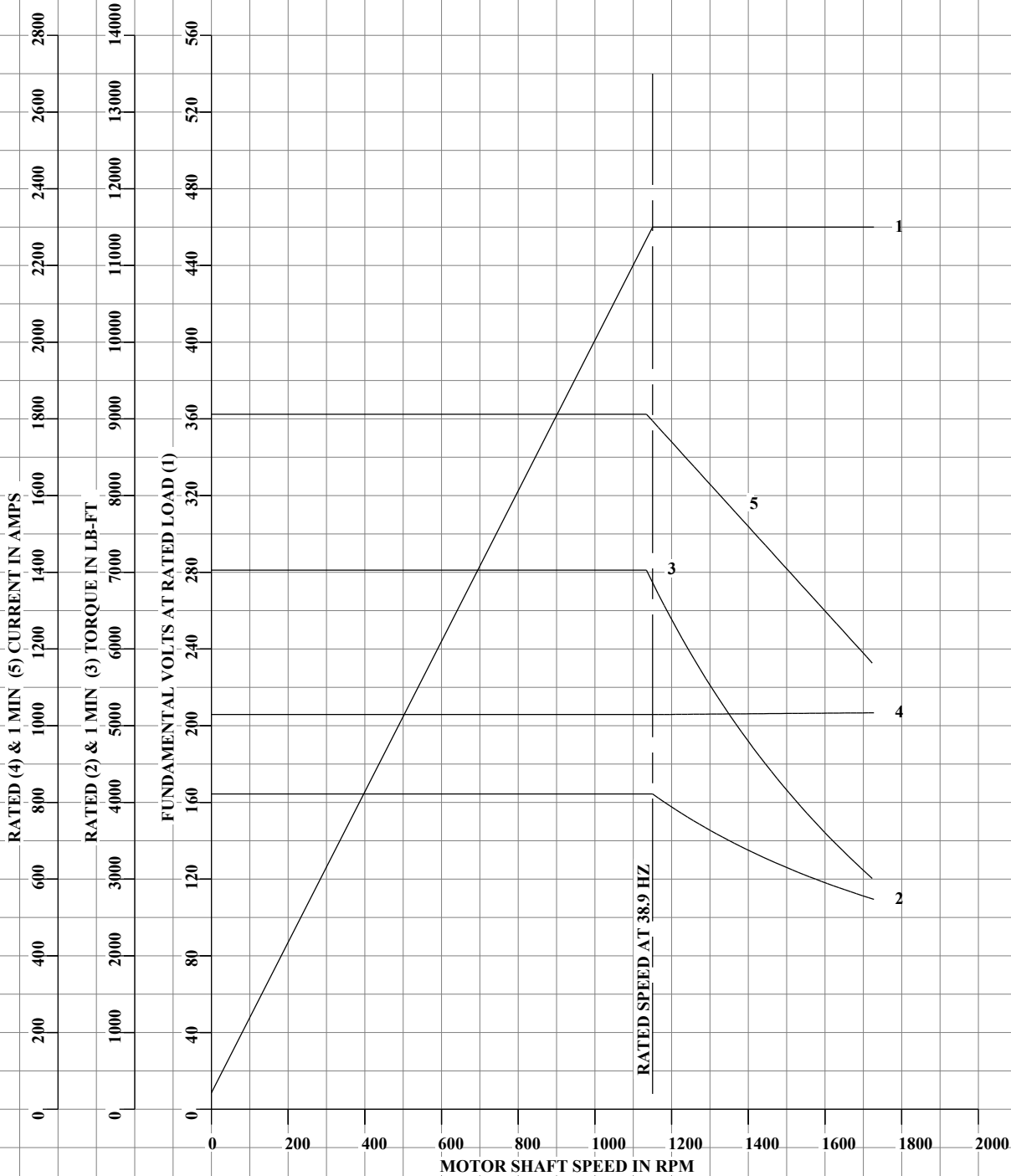
**AC MOTOR
PERFORMANCE
DATA**

L9079A

ISSUE DATE 9/23/21

FRAME	RL5024	VOLTS	460	ENCLOSURE	DP-IV	WYE CONN	EQ	CKT OHMS PER PHASE
HP	900	AMPS	1030	MAX SAFE SPEED	3000	(AT BASE RATING, 25°C)		
BASE SPEED	1150	DUTY	CONT	IM (AMPS)	294	R1	.00297	X1 .0307
PHASE/HZ	3/38.9	S.F.	1.0	P.F. @NL / FL	.023/.873	R2	.00270	X2 .0379
		AMB.°C / INSUL	40/H	WK ² (Lb-Ft ²)	182			XM .921

**TYPICAL DATA
VARIABLE SPEED AC MOTOR CURVES**



TYPICAL DATA, DATA VALID FOR NAMEPLATE SPEED RANGE ONLY



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DATE: 9/23/21

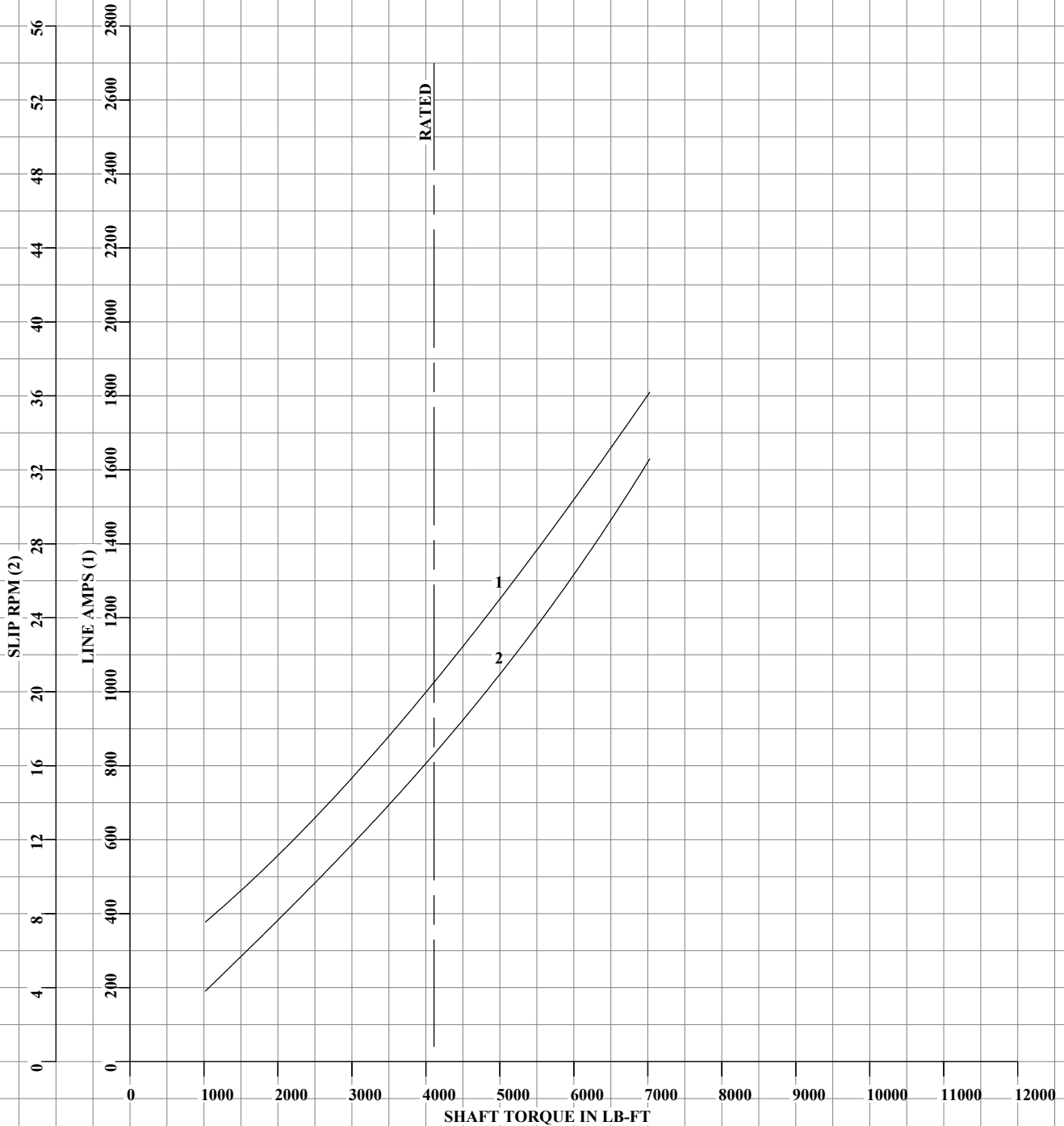
**AC MOTOR
PERFORMANCE
DATA**

L9079A

ISSUE DATE: 9/23/21

FRAME	RL5024	VOLTS	460	ENCLOSURE	DP-IV	WYE CONN EQ CKT OHMS PER PHASE (AT BASE RATING, 25°C)		
HP	900	AMPS	1030	MAX SAFE SPEED	3000	R1	.00297	X1 .0307
BASE SPEED	1150	DUTY	CONT	IM (AMPS)	294	R2	.00270	X2 .0379
PHASE/HZ	3/38.9	S.F.	1.0	P.F. @NL / FL	.023/.873			XM .921
		AMB.°C / INSUL	40/H	WK ² (Lb-Ft ²)	182			

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



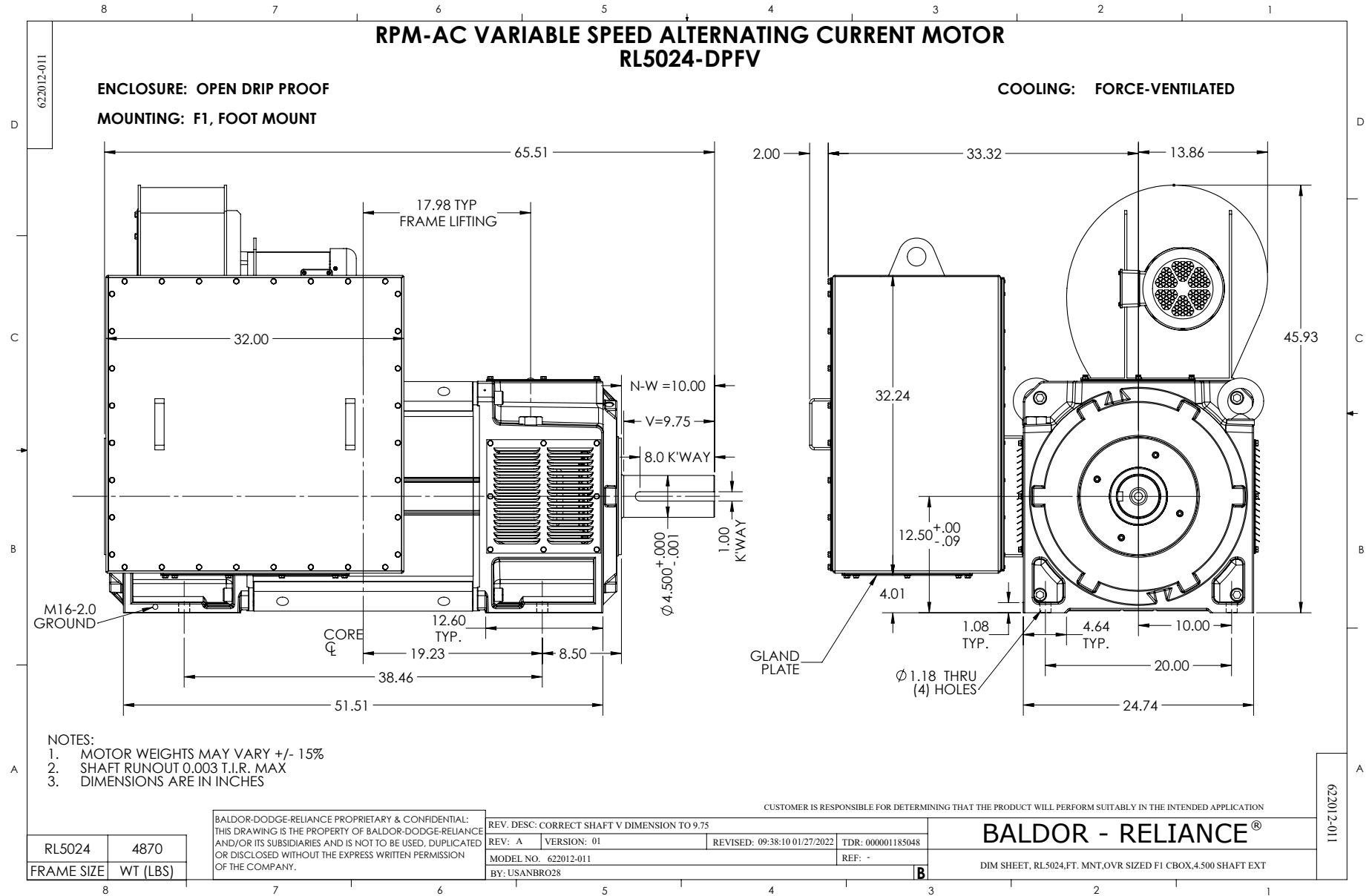
TYPICAL DATA, DATA VALID FOR NAMEPLATE SPEED RANGE ONLY



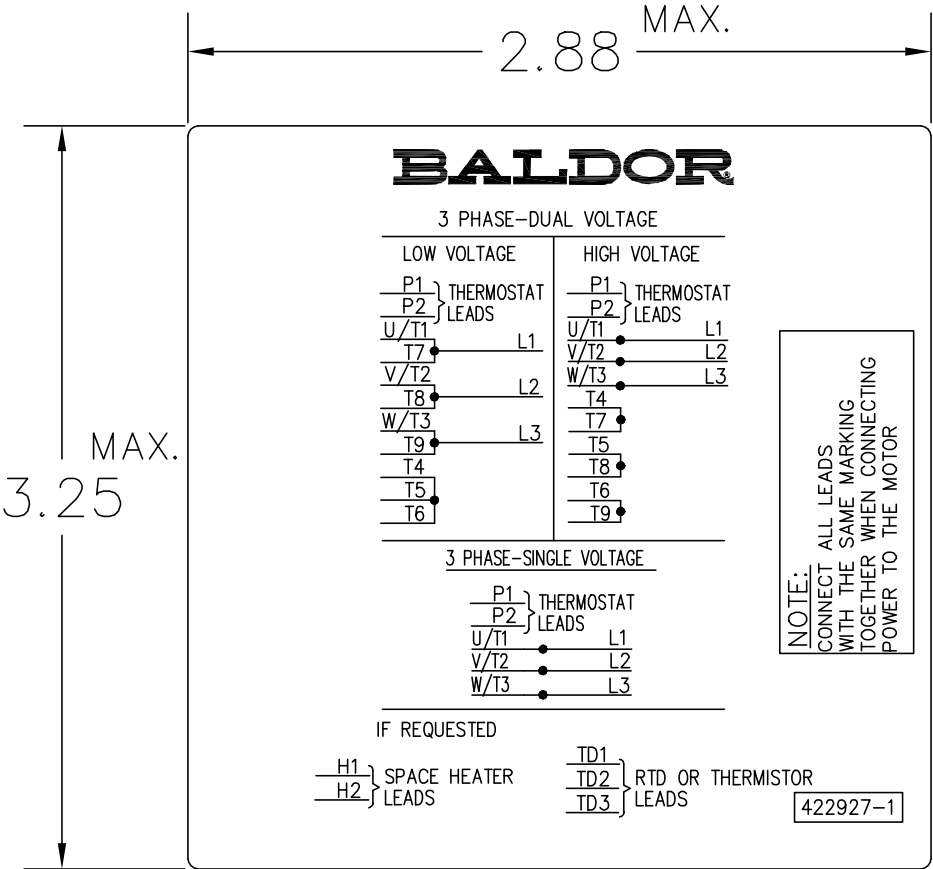
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**AC MOTOR
PERFORMANCE
DATA**

L9079A
 ISSUE DATE: 9/23/21



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