

ABB BALDOR RELIANCE III

Customer information packet

IDDRPM508006

800HP, 1150, 460V, RL5020, DPFV, F1

Specifications

Enclosure	DPFV
Frame	RL5020Z
Frame Material	Exposed Laminations
Frequency	389.00 Hz
Output @ Frequency	800.000 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	927.000 A @ 460.0 V
Duty Rating	CONT
Feedback Device	ENCODER
Frame Prefix	RL
Heater Indicator	No Heater
High Voltage Full Load Amps	927.0 a
Insulation Class	H
IP Rating	NONE
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	61.57 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	A
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	L9080A
Layout	622011-001
Eff. date	01-19-2022
CD Diagram	422927-001
Poles	04
Leads	
Proprietary	False
Created date	10-13-2021

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

Nameplate

000613006MY									
	DUTY	HP	RPM	AMPS	VOLTS	HZ			
	CONT	800	1150		927	460		38.9	
	CONT	800	1725		929	460		58.5	
CAT.NO.	IDDRPM508006			SPEC. NO.	R50-A000-0004				
SER.NO				FR	RL5020Z	INSUL	H		
PH.	3	MAX SAFE SPEED			3000	AMB.	40	MIN. AMB.	-25
DESIGN NO.	L9080A			TYPE		ENCL.	DPG-FV		
S.F.	1.00			D.E. BRG.	120BC02J30X				
ENCL MOD				O.D.E. BRG.	6224/C3J20AA				
	IP23								

FRAME	RL5020	AMPS	927	MAX SAFE SPEED	3000				
HP	800	DUTY	CONT	IM (AMPS)	278	R1	.00367	X1	.0362
BASE SPEED	1150	S.F.	1.0	P.F. @NL / FL	.024/.864	R2	.00312	X2	.0416
PHASE/HZ	3/38.9	AMB.°C / INSUL	40/H	WK ² (Lb-Ft ²)	153			XM	.971

RATED FULL LOAD DATA

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
BASE SPEED	1150	801	3656	460	38.9	927
MAX SPEED	1726	801	2435	460	58.5	927
MIN SPEED	0	0	3656	9.53	.580	927

LOAD PERFORMANCE AT BASE SPEED

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	1167	0	0	460	38.9	278
1/4	1163	201	906	460	38.9	351
1/2	1159	400	1812	460	38.9	509
3/4	1154	600	2729	460	38.9	707
FULL LOAD	1150	800	3656	460	38.9	927
0/L	1134	1311	6069	460	38.9	1579

REMARKS:
TYPICAL DATA
TYPICAL DATA



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 CHECKED BY: C. ETIENNE
 APPROVED BY: J. MARTIN
 DATE: 9/28/21

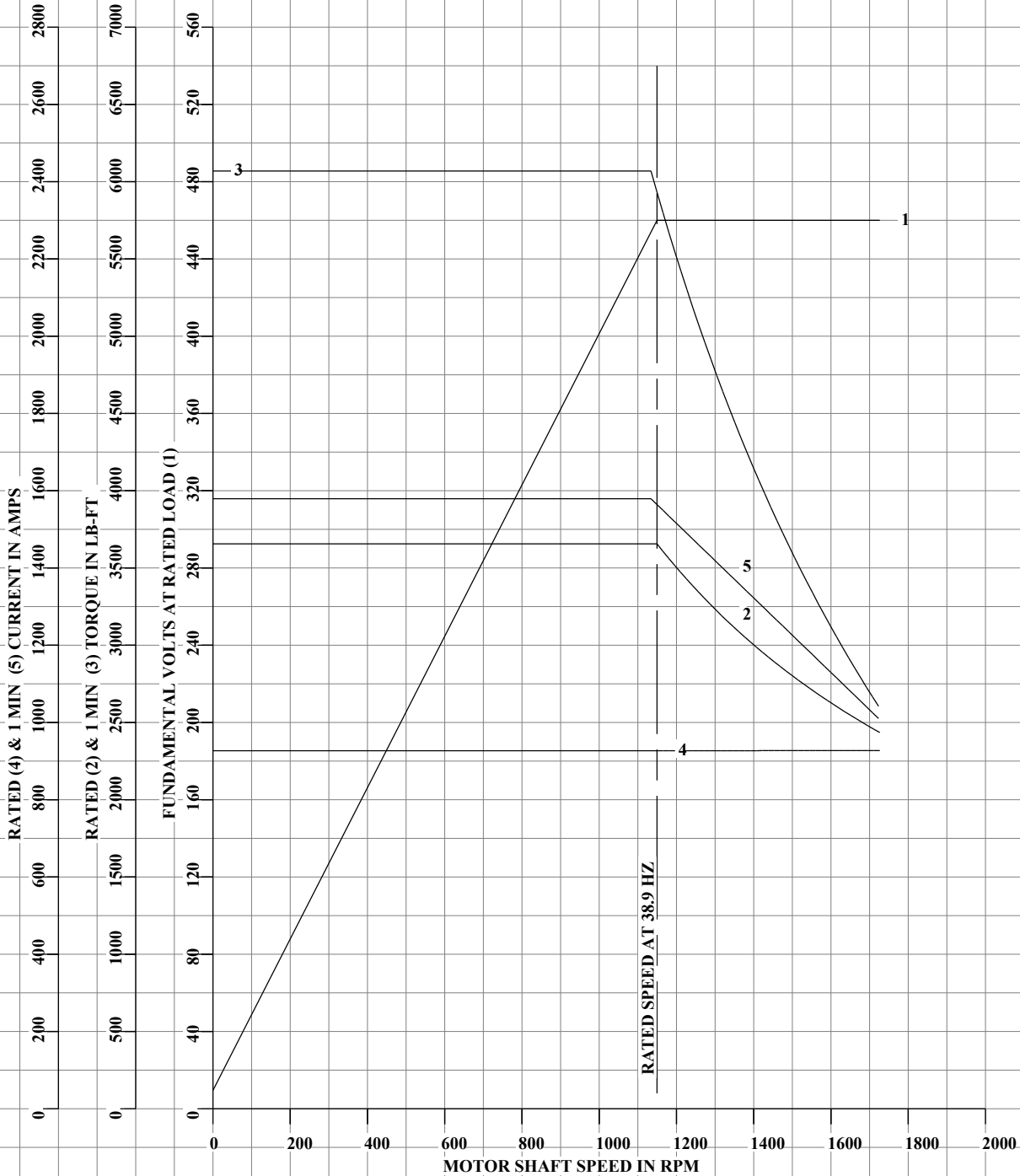
AC MOTOR
PERFORMANCE
DATA

L9080A

ISSUE DATE 9/28/21

FRAME	RL5020	VOLTS	460	ENCLOSURE	DPFV	WYE CONNE EQ CKT OHMS PER PHASE (AT BASE RATING, 25°C)		
HP	800	AMPS	927	MAX SAFE SPEED	3000	R1	.00367	X1 .0362
BASE SPEED	1150	DUTY	CONT	IM (AMPS)	278	R2	.00312	X2 .0416
PHASE/HZ	3/38.9	S.F.	1.0	P.F. @NL / FL	.024/.864			XM .971
		AMB.°C / INSUL	40/H	WK ² (Lb-Ft ²)	153			

**TYPICAL DATA
VARIABLE SPEED AC MOTOR CURVES**



TYPICAL DATA, DATA VALID FOR NAMEPLATE SPEED RANGE ONLY



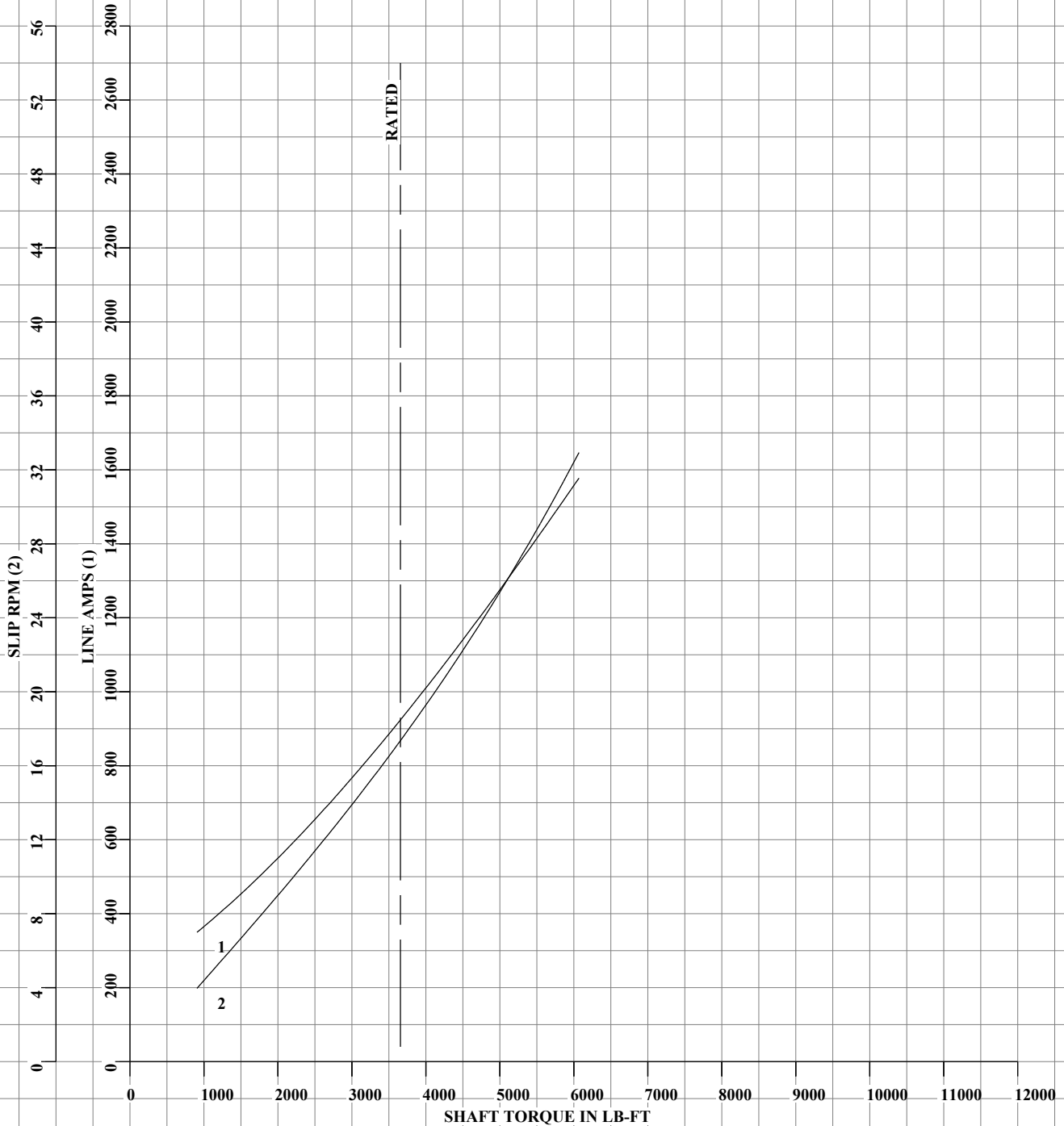
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CHECKED BY: C. ETIENNE
APPROVED BY: J. MARTIN
DATE: 9/28/21**

**AC MOTOR
PERFORMANCE
DATA**

**L9080A
ISSUE DATE: 9/28/21**

FRAME	RL5020	VOLTS	460	ENCLOSURE	DPFV	WYE CONN EQ CKT OHMS PER PHASE (AT BASE RATING, 25°C)		
HP	800	AMPS	927	MAX SAFE SPEED	3000	R1	.00367	X1 .0362
BASE SPEED	1150	DUTY	CONT	IM (AMPS)	278	R2	.00312	X2 .0416
PHASE/HZ	3/38.9	S.F.	1.0	P.F. @NL / FL	.024/.864			XM .971
		AMB.°C / INSUL	40/H	WK ² (Lb-Ft ²)	153			

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



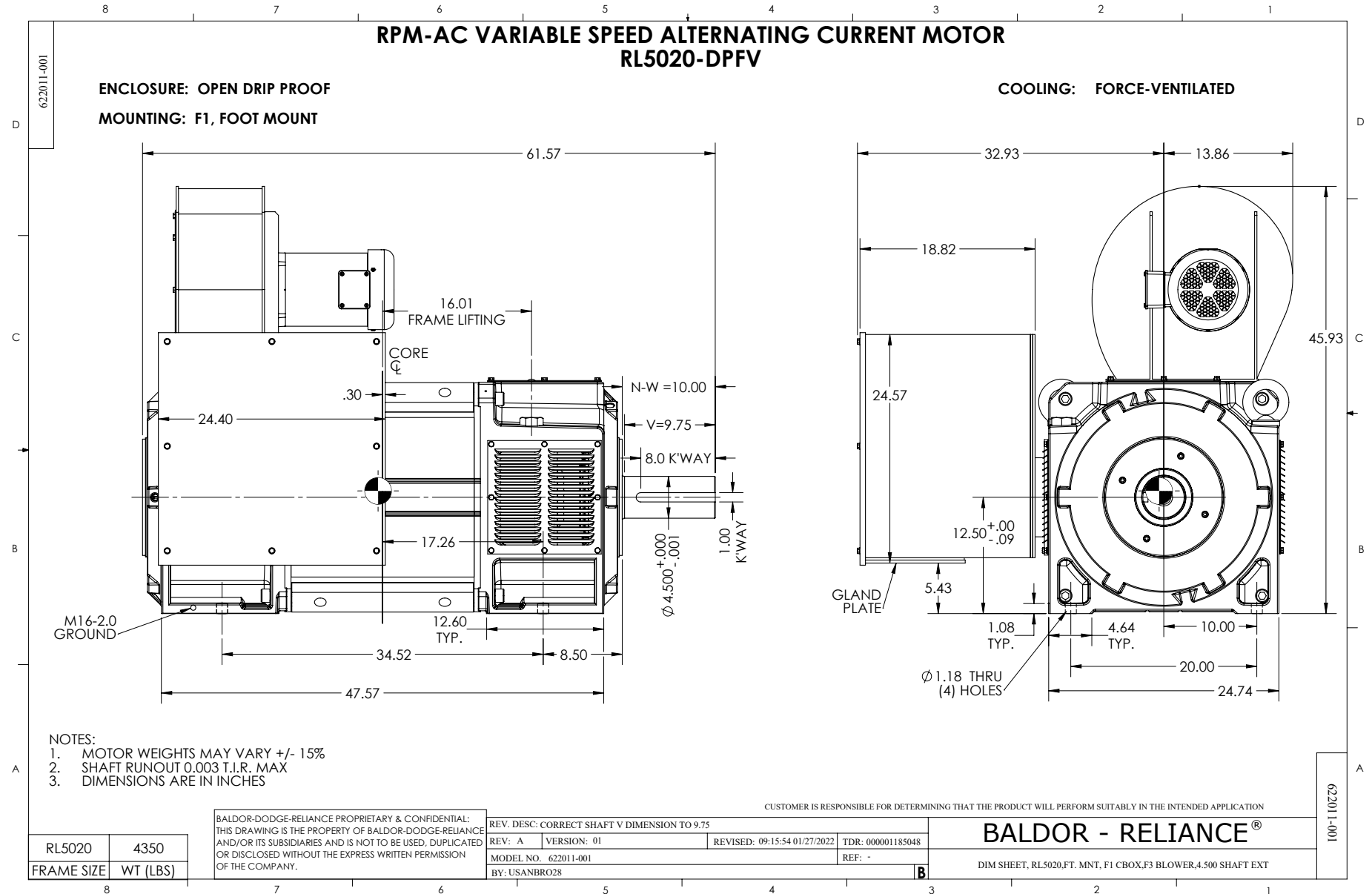
TYPICAL DATA, DATA VALID FOR NAMEPLATE SPEED RANGE ONLY



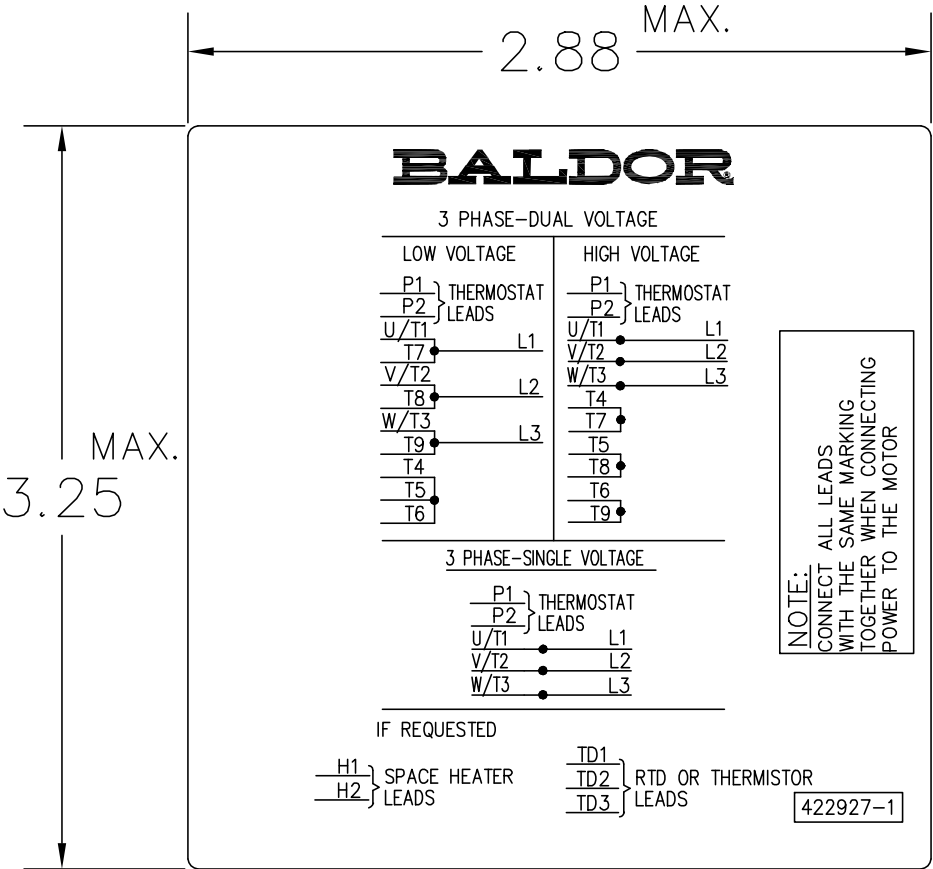
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**AC MOTOR
PERFORMANCE
DATA**

L9080A
 ISSUE DATE: 9/28/21



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