

ABB BALDOR RELIANCE III

Customer information packet

IDDRPM5014006

1400HP, 1150, 460V, RL5035, DPFV, F1

Specifications

Enclosure	DPFV
Frame	RL5035Z
Frame Material	Exposed Laminations
Frequency	389.00 Hz
Output @ Frequency	1400.000 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	1574.000 A @ 460.0 V
Duty Rating	CONT
Feedback Device	ENCODER
Frame Prefix	RL
Heater Indicator	No Heater
High Voltage Full Load Amps	1574.0 a
Insulation Class	H
IP Rating	NONE
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	77.32 IN
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.00
Shaft Diameter	4.250 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.	L9065A
Layout	622004-001
Eff. date	08-24-2023
CD Diagram	422927-001
Poles	04
Leads	
Proprietary	False
Created date	11-09-2021

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

Nameplate

000613006MY									
	DUTY	HP	RPM	AMPS	VOLTS	HZ			
	CONT	1400	1150		1574	460		38.9	
	CONT	1400	1725		1613	460		58.4	
CAT.NO.	IDDRPM5014006		SPEC. NO.		R50-A000-0005				
SER.NO			FR	RL5035Z	INSUL	H			
PH.	3	MAX SAFE SPEED			3000	AMB.	40	MIN. AMB.	-25
DESIGN NO.	L9065A		TYPE		ENCL.	DPG-FV			
S.F.	1.00		D.E. BRG.		120BC02J30X				
ENCL MOD			O.D.E. BRG.		6224/C3J20AA				
	IP23								

FRAME	RL5035	AMPS	1574	MAX SAFE SPEED	3000				
HP	1400	DUTY	CONT	IM (AMPS)	393	R1	.00181	X1	.0199
BASE SPEED	1150	S.F.	1.0	P.F. @NL / FL	.022/.884	R2	.00180	X2	.0265
PHASE/HZ	3/38.9	AMB.°C / INSUL	40/H	WK ² (Lb-Ft ²)	269			XM	.699

RATED FULL LOAD DATA

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
BASE SPEED	1150	1401	6397	460	38.9	1575
MAX SPEED	1720	1401	4277	460	58.3	1614
MIN SPEED	0	0	6397	8.02	.575	1575

LOAD PERFORMANCE AT BASE SPEED

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	1167	0	0	460	38.9	392
1/4	1163	351	1585	460	38.9	538
1/2	1159	701	3178	460	38.9	835
3/4	1155	1050	4775	460	38.9	1189
FULL LOAD	1150	1401	6397	460	38.9	1575
0/L	1135	2281	10556	460	38.9	2700

REMARKS:
TYPICAL DATA
TYPICAL DATA



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

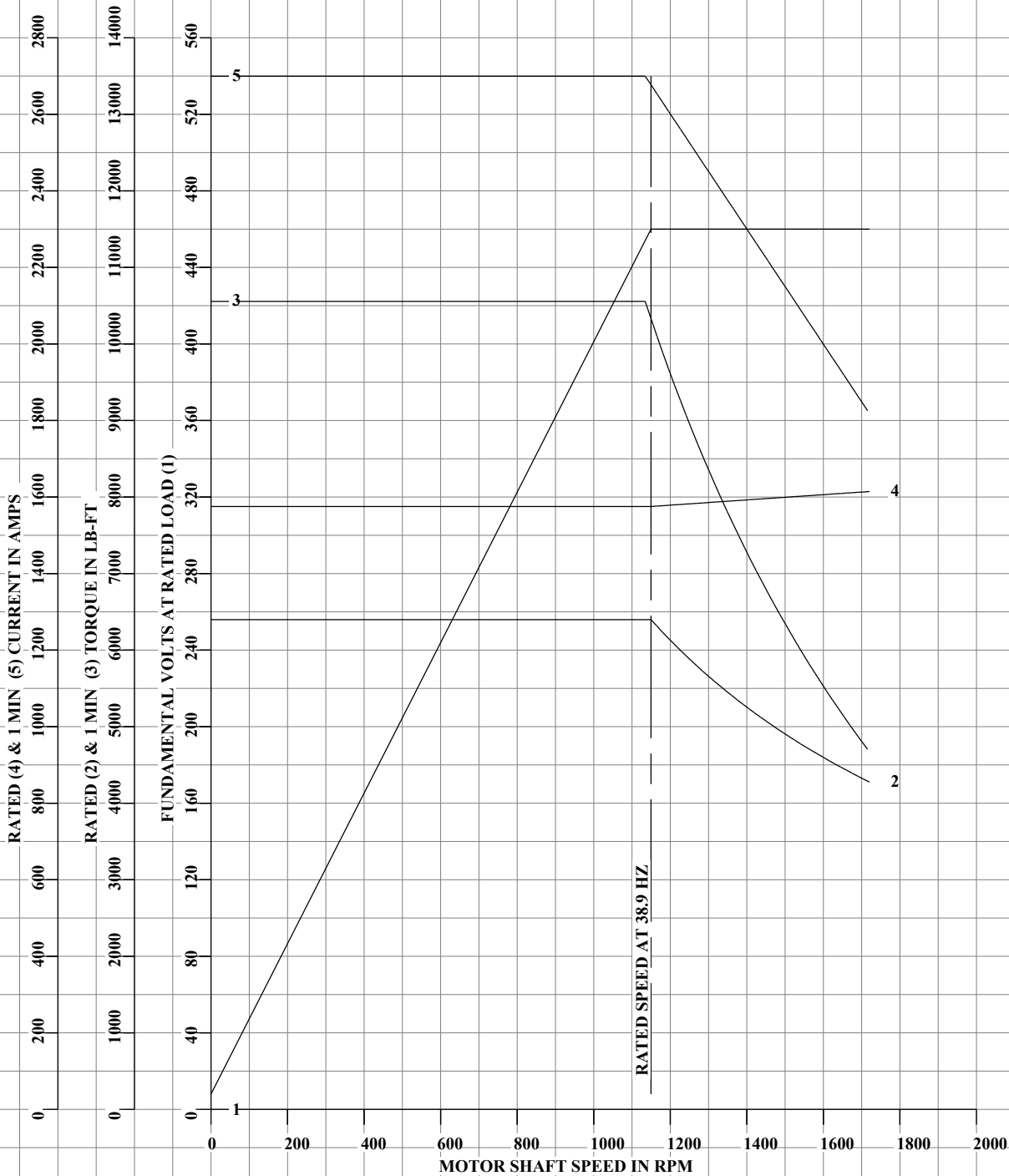
**AC MOTOR
PERFORMANCE
DATA**

L9065A

ISSUE DATE 9/14/21

FRAME	RL5035	VOLTS	460	ENCLOSURE	DPFV	WYE CONN EQ CKT OHMS PER PHASE (AT BASE RATING, 25°C)		
HP	1400	AMPS	1574	MAX SAFE SPEED	3000	R1	.00181	X1 .0199
BASE SPEED	1150	DUTY	CONT	IM (AMPS)	393	R2	.00180	X2 .0265
PHASE/HZ	3/38.9	S.F.	1.0	P.F. @NL / FL	.022/.884			XM .699
		AMB.°C / INSUL	40/H	WK ² (Lb-Ft ²)	269			

**TYPICAL DATA
VARIABLE SPEED AC MOTOR CURVES**



TYPICAL DATA, DATA VALID FOR NAMEPLATE SPEED RANGE ONLY



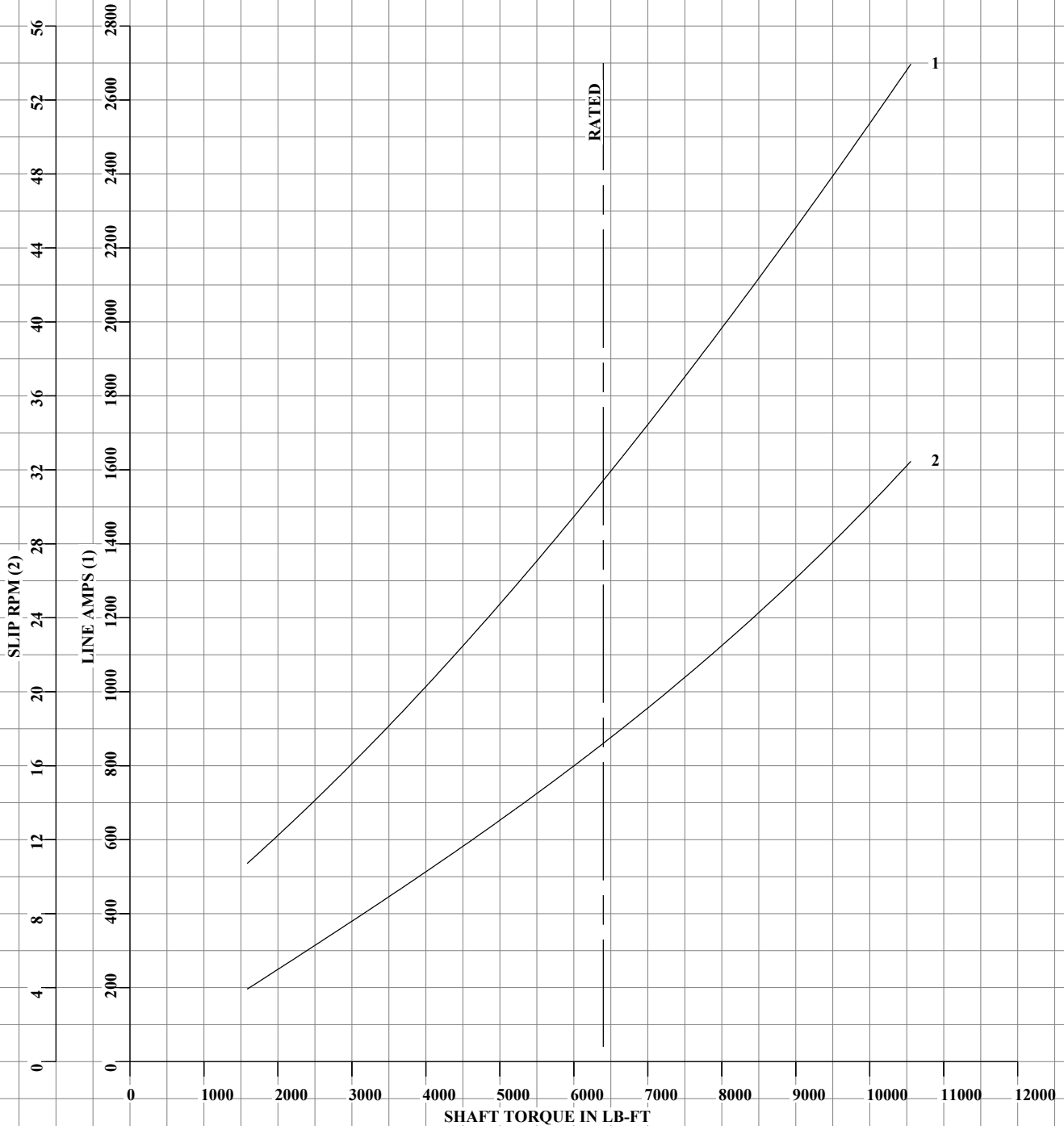
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 APPROVED BY: J. MARTIN
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**AC MOTOR
PERFORMANCE
DATA**

L9065A
 ISSUE DATE: 9/14/21

FRAME	RL5035	VOLTS	460	ENCLOSURE	DPFV	WYE CONN EQ CKT OHMS PER PHASE (AT BASE RATING, 25°C)		
HP	1400	AMPS	1574	MAX SAFE SPEED	3000	R1	.00181	X1 .0199
BASE SPEED	1150	DUTY	CONT	IM (AMPS)	393	R2	.00180	X2 .0265
PHASE/HZ	3/38.9	S.F.	1.0	P.F. @NL / FL	.022/.884			XM .699
		AMB.°C / INSUL	40/H	WK ² (Lb-Ft ²)	269			

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



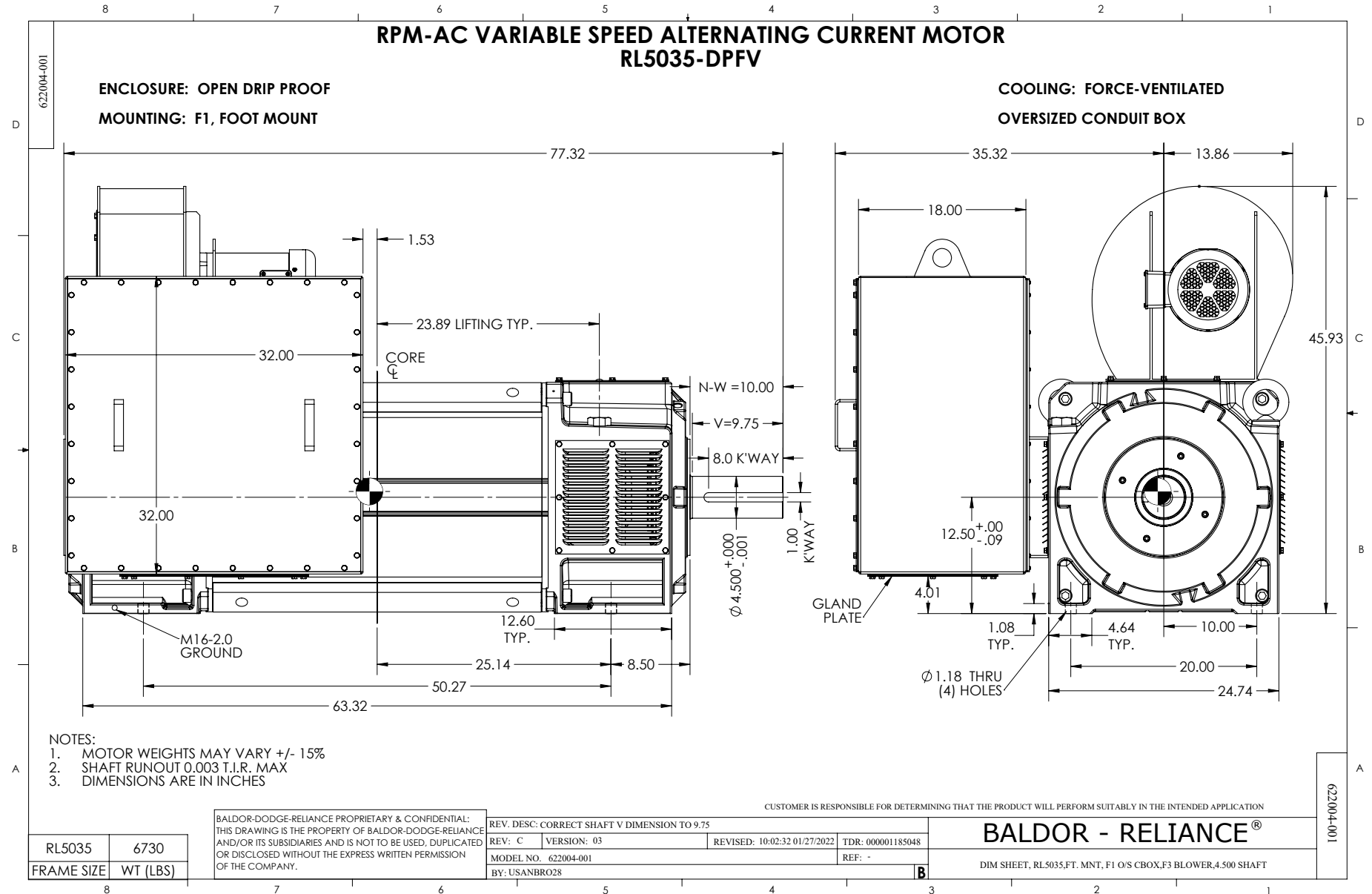
TYPICAL DATA, DATA VALID FOR NAMEPLATE SPEED RANGE ONLY



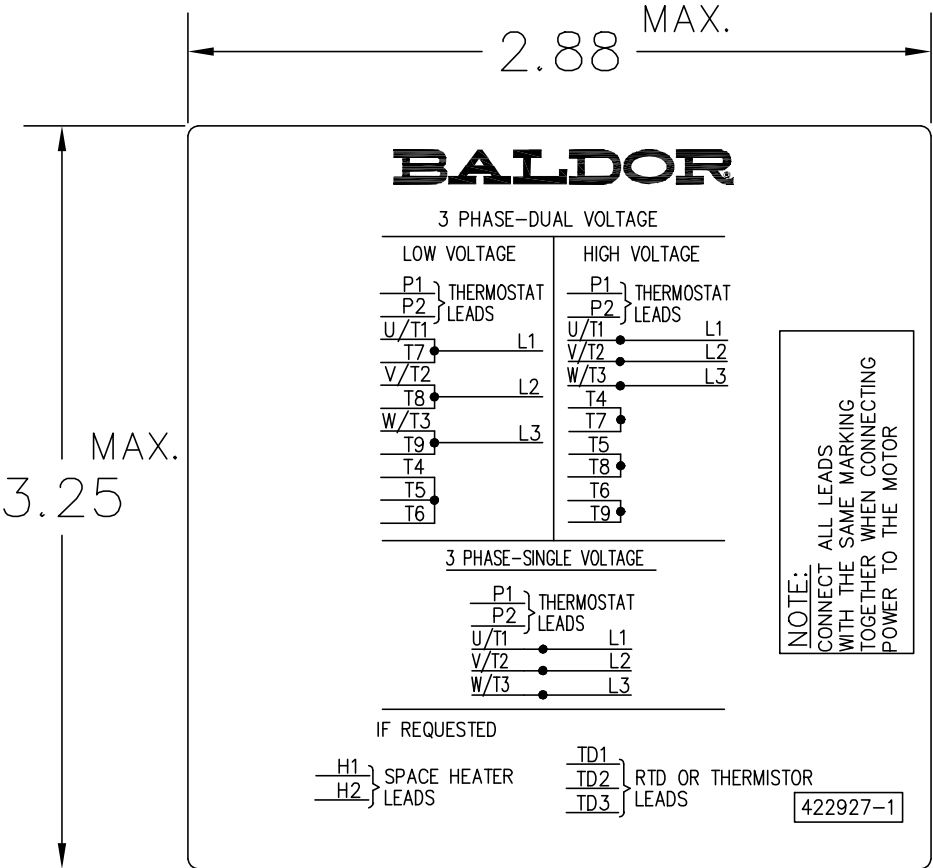
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**AC MOTOR
PERFORMANCE
DATA**

L9065A
 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