

ABB BALDOR RELIANCE III

Customer information packet

IDDRPM5012506

1250HP, 1150, 460V, RL5035, DPFV, F1

Specifications

Enclosure	DPFV
Frame	RL5035Z
Frame Material	Exposed Laminations
Frequency	388.00 Hz
Output @ Frequency	1250.000 HP @ 388 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 388 HZ
Voltage @ Frequency	460.0 V @ 388 HZ
Agency Approvals	CCSA US
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	1407.000 A @ 460.0 V
Duty Rating	CONT
Feedback Device	ENCODER
Frame Prefix	RL
Heater Indicator	No Heater
High Voltage Full Load Amps	1407.0 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	Shaft Grounding
Shaft Rotation	Reversible
Speed	1150 rpm
Starting Method	Full Voltage

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	L9075A
Layout	622004-001
Eff. date	01-04-2024
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	1250	1150		1407	460	38.8		
	CONT	1250	1725		1385	460	58.3		
CAT.NO.	IDDRPM5012506			SPEC. NO.		R50-A000-0003			
SER.NO				FR	RL5035Z	INSUL	H		
PH.	3	MAX SAFE SPEED			3000	AMB.	40	MIN. AMB.	-25
DESIGN NO.	L9075A		TYPE			ENCL.	DPG-FV		
S.F.	1.00		D.E. BRG.		120BC02J30X				
ENCL MOD			O.D.E. BRG.		6224/C3J20AA				
	IP23								

FRAME	RL5035	AMPS	1407	MAX SAFE SPEED	3000				
HP	1250	DUTY	CONT	IM (AMPS)	395	R1	.00181	X1	.0198
BASE SPEED	1150	S.F.	1.0	P.F. @NL / FL	.022/.880	R2	.00180	X2	.0278
PHASE/HZ	3/38.8	AMB.°C / INSUL	40/H	WK ² (Lb-Ft ²)	271			XM	.690

RATED FULL LOAD DATA

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
BASE SPEED	1149	1251	5716	460	38.8	1380
MAX SPEED	1724	1251	3809	460	58.3	1386
MIN SPEED	0	0	5716	6.97	.503	1380

LOAD PERFORMANCE AT BASE SPEED

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	1164	0	0	460	38.8	387
1/4	1161	313	1417	460	38.8	504
1/2	1157	625	2837	460	38.8	750
3/4	1153	937	4268	460	38.8	1050
FULL LOAD	1149	1250	5716	460	38.8	1380
0/L	1132	2292	10632	460	38.8	2642

REMARKS:

TYPICAL DATA

TYPICAL DATA

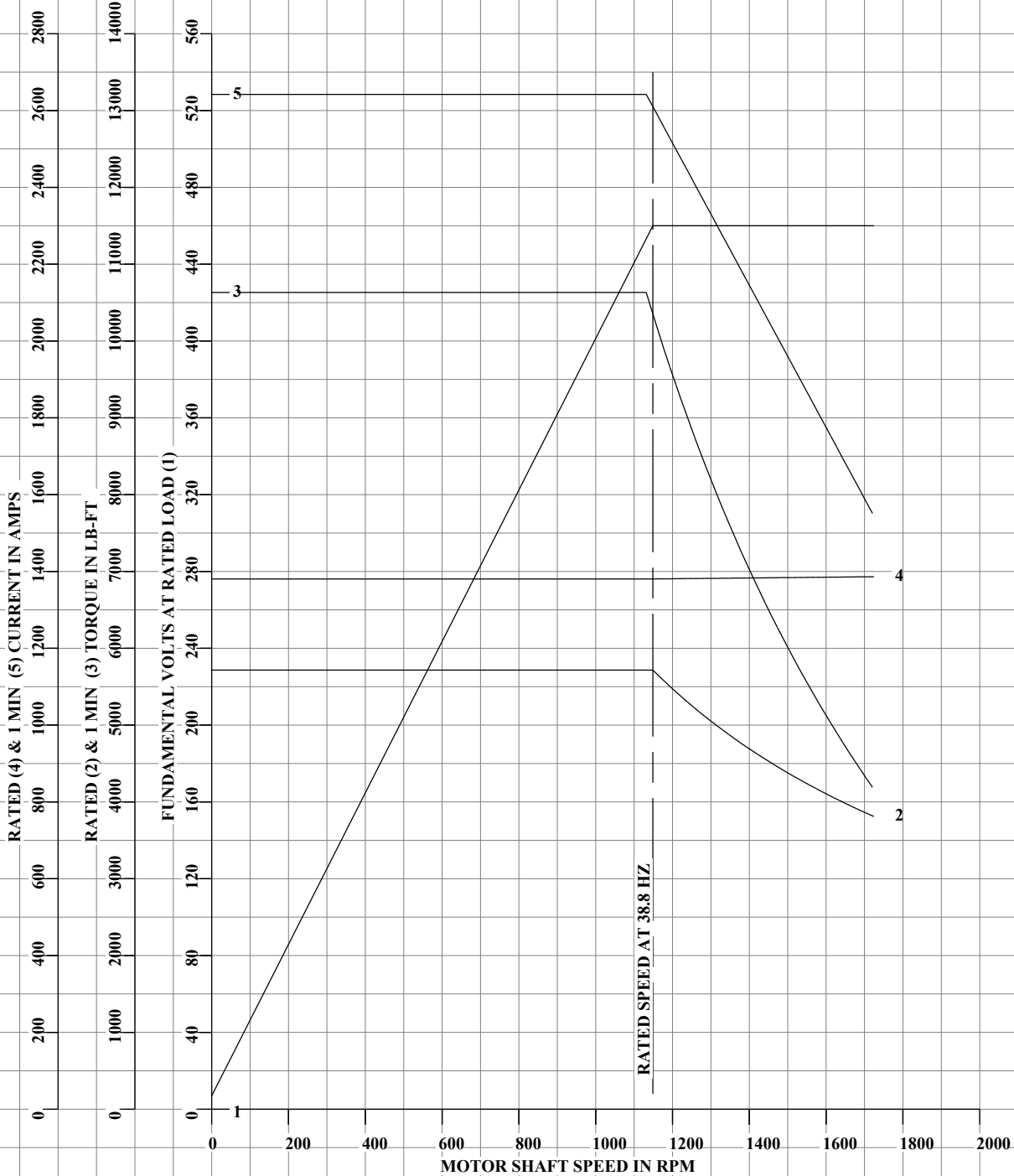
96.4% FULL LOAD EFFICIENCY


 DRAWN BY: C. ETIENNE
 CHECKED BY: C. ETIENNE
 APPROVED BY: J. MARTIN
 DATE: 9/21/21
**AC MOTOR
PERFORMANCE
DATA**
L9075A

ISSUE DATE 9/21/21

FRAME	RL5035	VOLTS	460	ENCLOSURE	DPEV	WYE CONNEQ CKT OHMS PER PHASE (AT BASE RATING, 25°C)		
HP	1250	AMPS	1407	MAX SAFE SPEED	3000	R1	.00181	X1 .0198
BASE SPEED	1150	DUTY	CONT	IM (AMPS)	395	R2	.00180	X2 .0278
PHASE/HZ	3/38.8	S.F.	1.0	P.F. @NL / FL	.022/.880			XM .690
		AMB.°C / INSUL	40/H	WK ² (Lb-Ft ²)	271			

**TYPICAL DATA
96.4% FULL LOAD EFFICIENCY
VARIABLE SPEED AC MOTOR CURVES**



TYPICAL DATA, DATA VALID FOR NAMEPLATE SPEED RANGE ONLY



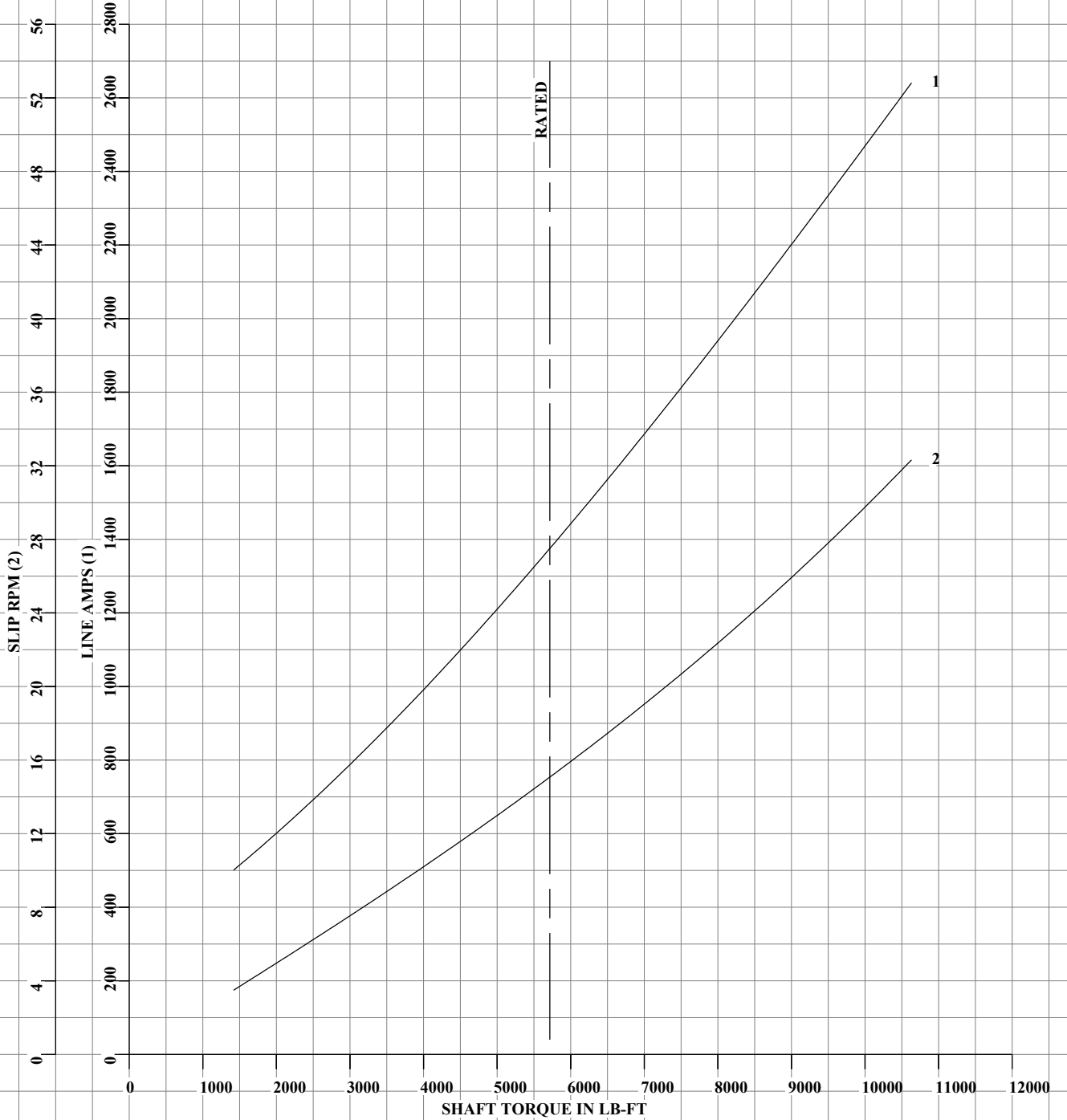
DRAWN BY: C. ETIENNE
CHECKED BY: C. ETIENNE
APPROVED BY: J. MARTIN
DATE: 9/21/21

**AC MOTOR
PERFORMANCE
DATA**

L9075A
ISSUE DATE: 9/21/21

FRAME	RL5035	VOLTS	460	ENCLOSURE	DPFV	WYE CONNEQ CKT OHMS PER PHASE (AT BASE RATING, 25°C)		
HP	1250	AMPS	1407	MAX SAFE SPEED	3000	R1	.00181	X1 .0198
BASE SPEED	1150	DUTY	CONT	IM (AMPS)	395	R2	.00180	X2 .0278
PHASE/HZ	3/38.8	S.F.	1.0	P.F. @NL / FL	.022/.880			XM .690
		AMB.°C / INSUL	40/H	WK ² (Lb-Ft ²)	271			

TYPICAL DATA
96.4% FULL LOAD EFFICIENCY
LOAD PERFORMANCE (CONSTANT V/HZ RANGE)



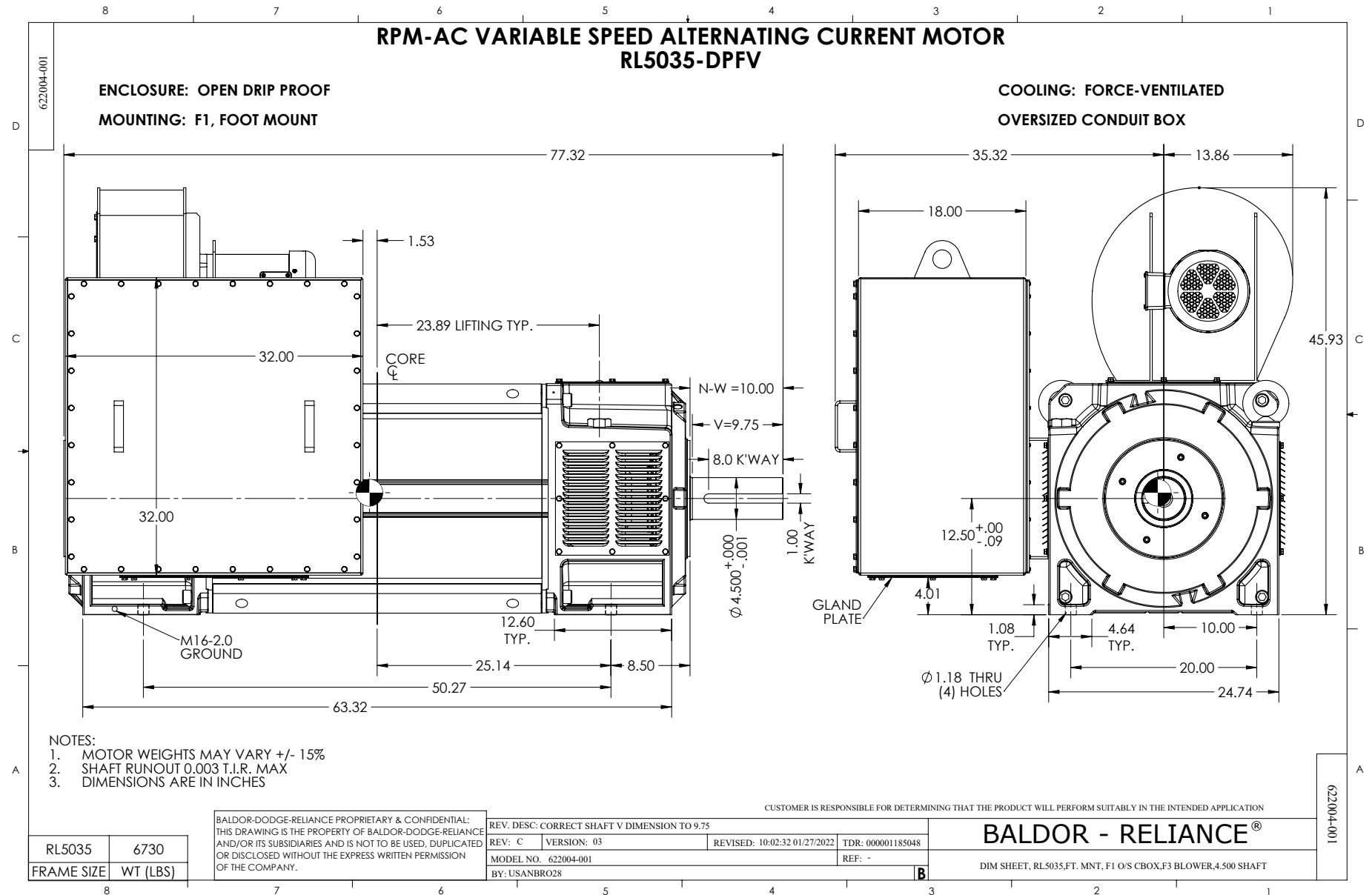
TYPICAL DATA, DATA VALID FOR NAMEPLATE SPEED RANGE ONLY



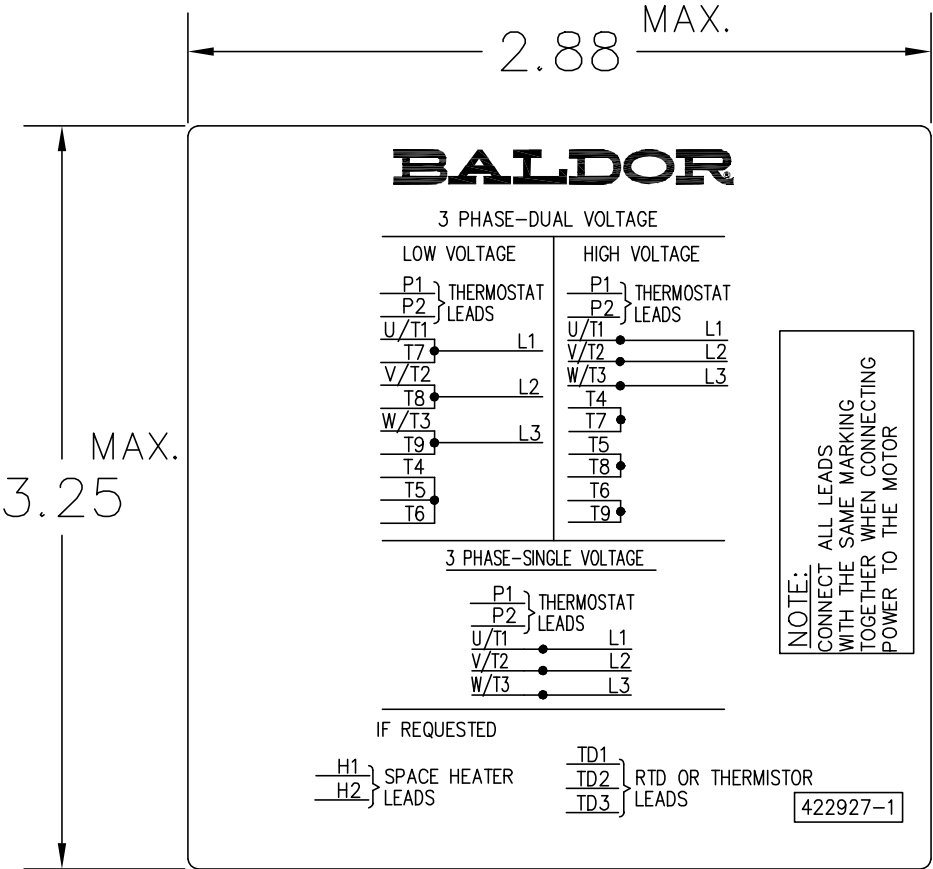
DRAWN BY: C. ETIENNE
CHECKED BY: C. ETIENNE
APPROVED BY: J. MARTIN
DATE: 9/21/21

AC MOTOR
PERFORMANCE
DATA

L9075A
ISSUE DATE: 9/21/21



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