

ABB BALDOR RELIANCE III

Customer information packet

IDDRPM5012504

1250HP, 1750, 460V, RL5024, DPFV, F1

Specifications

Enclosure	DPFV
Frame	RL5024Z
Frame Material	Exposed Laminations
Frequency	60.00 Hz
Output @ Frequency	1250.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSA US
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	1403.000 A @ 460.0 V
Duty Rating	CONT
Feedback Device	ENCODER
Frame Prefix	RL
Heater Indicator	No Heater
High Voltage Full Load Amps	1403.0 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	1783 rpm
Starting Method	Full Voltage

Part Detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	L9085A
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	1250	1783		1403	460	60		
	CONT	1250	2600		1422	460	87.6		
CAT.NO.	IDDRPM5012504			SPEC. NO.	R50-A000-0007				
SER.NO				FR	RL5024Z	INSUL	H		
PH.	3	MAX SAFE SPEED			3000	AMB.	40	MIN. AMB.	-25
DESIGN NO.	L9085A			TYPE		ENCL.	DPG-FV		
S.F.	1.00			D.E. BRG.	120BC02J30X				
ENCL MOD				O.D.E. BRG.	6224/C3J20AA				
	IP23								

FRAME	RL5024	AMPS	1403	MAX SAFE SPEED	3000				
HP	1250	DUTY	CONT	IM (AMPS)	362	R1	.00141	X1	.0227
BASE SPEED	1783	S.F.	1.0	P.F. @NL / FL	.025/.879	R2	.00129	X2	.0286
PHASE/HZ	3/60	AMB.°C / INSUL	40/H	WK ² (Lb-Ft ²)	182			XM	.741

RATED FULL LOAD DATA

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
BASE SPEED	1783	1251	3683	460	60	1403
MAX SPEED	2601	1250	2523	460	87.6	1421
MIN SPEED	0	0	3683	5.53	.562	1403

LOAD PERFORMANCE AT BASE SPEED

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	1800	0	0	460	60	361
1/4	1796	313	915	460	60	489
1/2	1792	626	1834	460	60	752
3/4	1788	937	2753	460	60	1062
FULL LOAD	1783	1250	3683	460	60	1403
0/L	1767	2120	6298	460	60	2480

REMARKS:
TYPICAL DATA
TYPICAL DATA



DRAWN BY: C. ETIENNE
 CHECKED BY: C. ETIENNE
 APPROVED BY: J. MARTIN
 DATE: 10/1/21

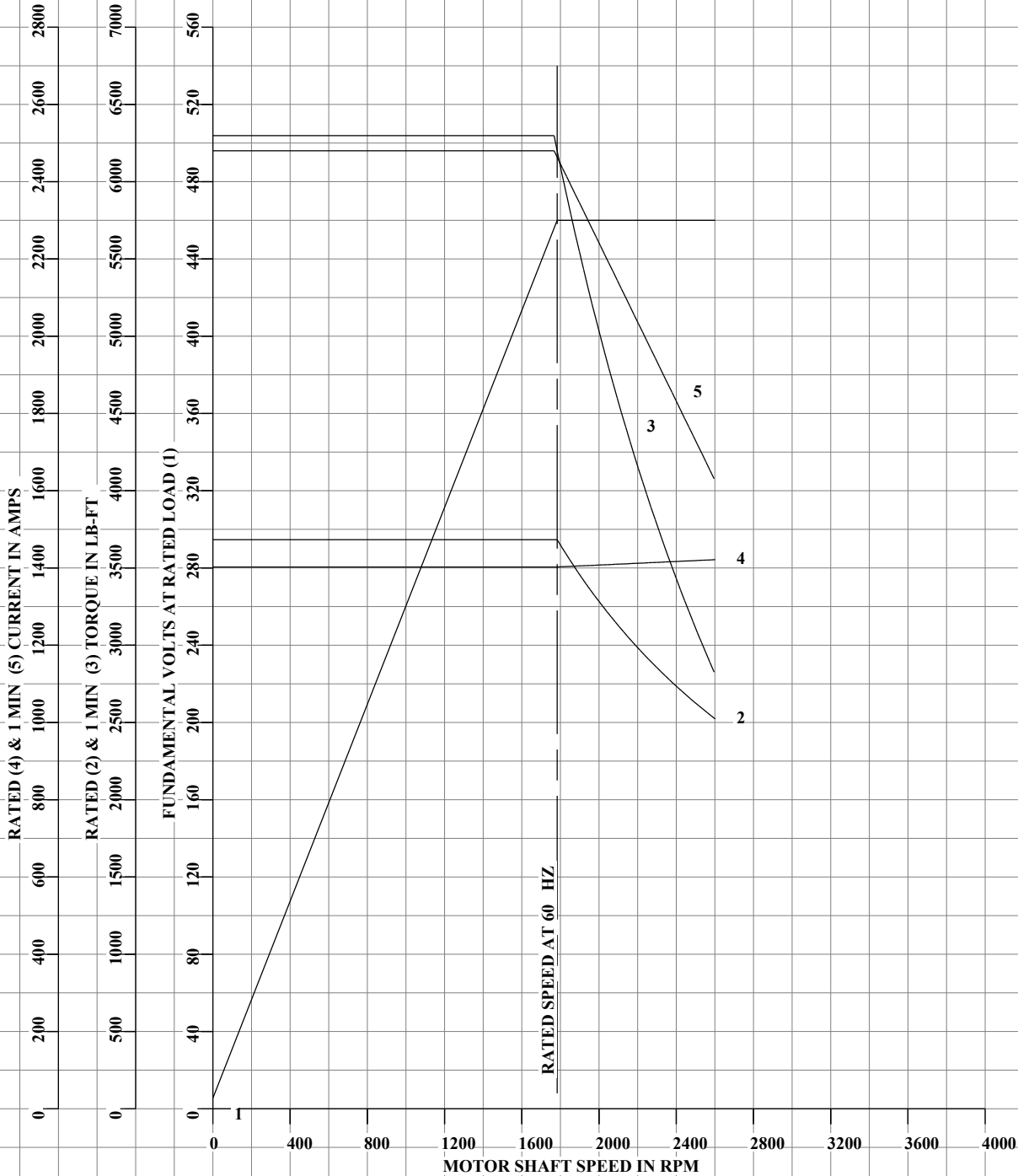
AC MOTOR
PERFORMANCE
DATA

L9085A

ISSUE DATE 10/1/21

FRAME	RL5024	VOLTS	460	ENCLOSURE	DPFV	WYE CONNEQ CKT OHMS PER PHASE (AT BASE RATING, 25°C)		
HP	1250	AMPS	1403	MAX SAFE SPEED	3000	R1	.00141	X1 .0227
BASE SPEED	1783	DUTY	CONT	IM (AMPS)	362	R2	.00129	X2 .0286
PHASE/HZ	3/60	S.F.	1.0	P.F. @NL / FL	.025/.879			XM .741
		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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DATE: 10/1/21

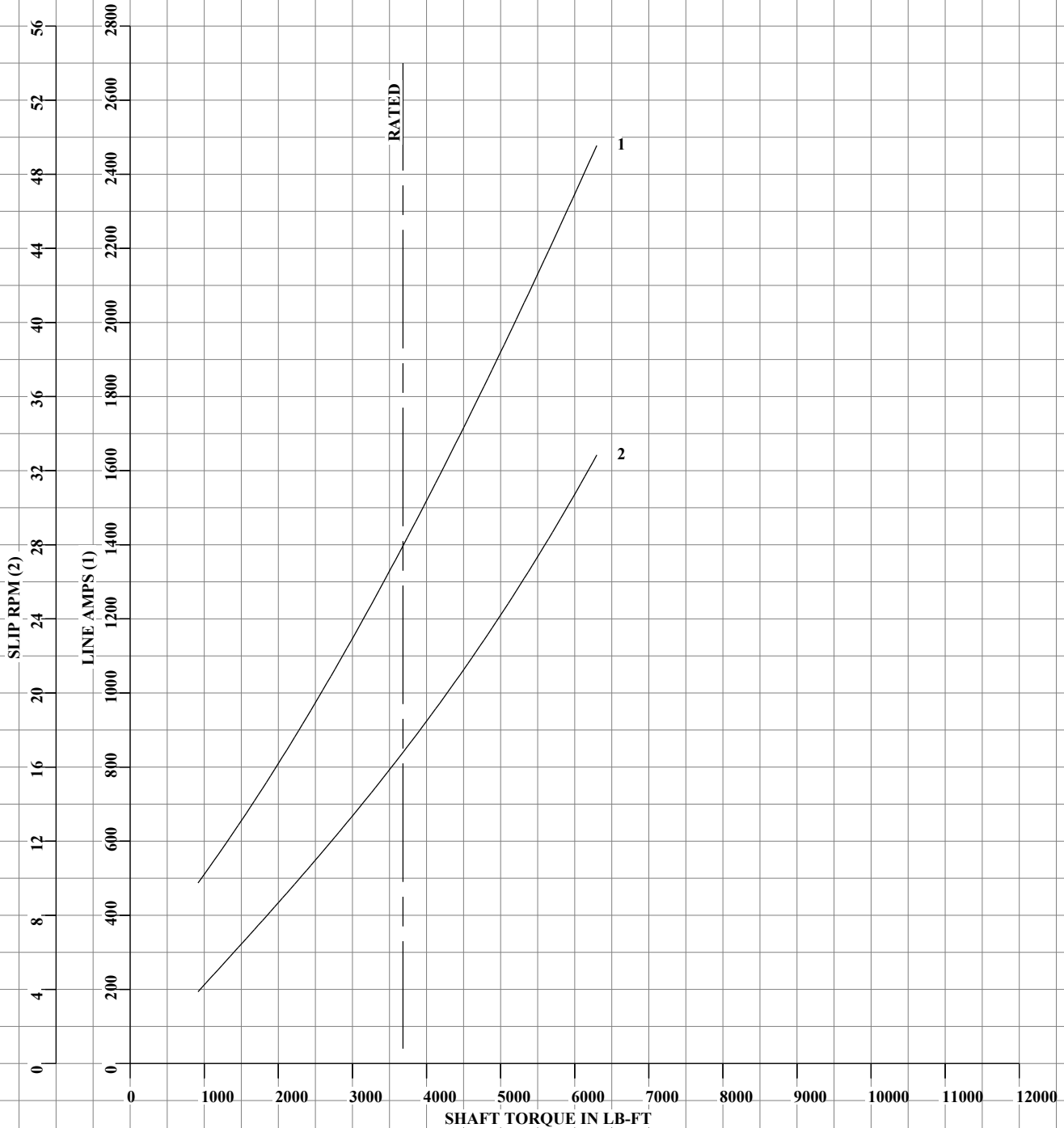
**AC MOTOR
PERFORMANCE
DATA**

L9085A

ISSUE DATE: 10/1/21

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PHASE/HZ	3/60	S.F.	1.0	P.F. @NL / FL	.025/.879			XM .741
		AMB.°C / INSUL	40/H	WK ² (Lb-Ft ²)	182			

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



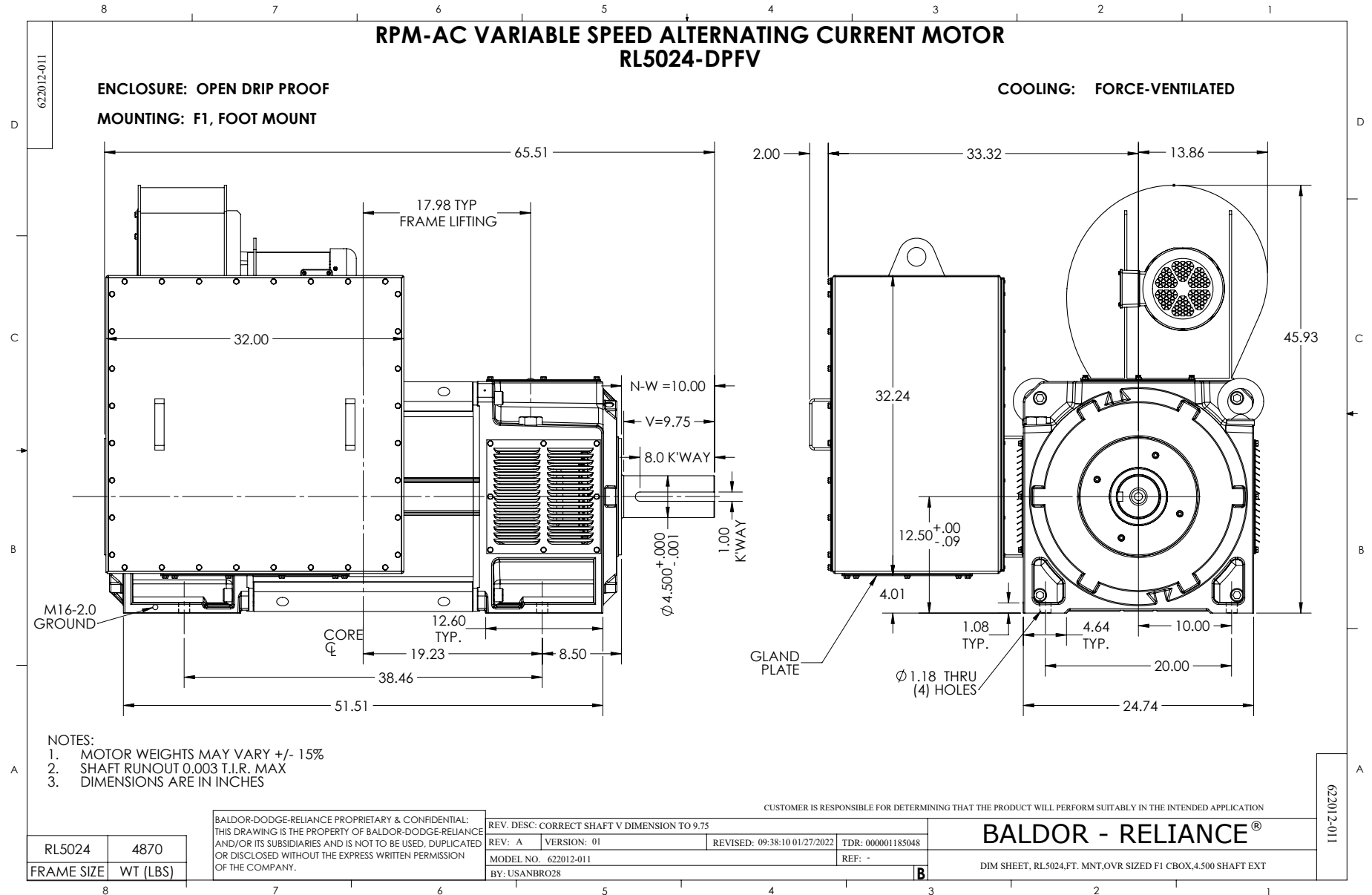
TYPICAL DATA, DATA VALID FOR NAMEPLATE SPEED RANGE ONLY



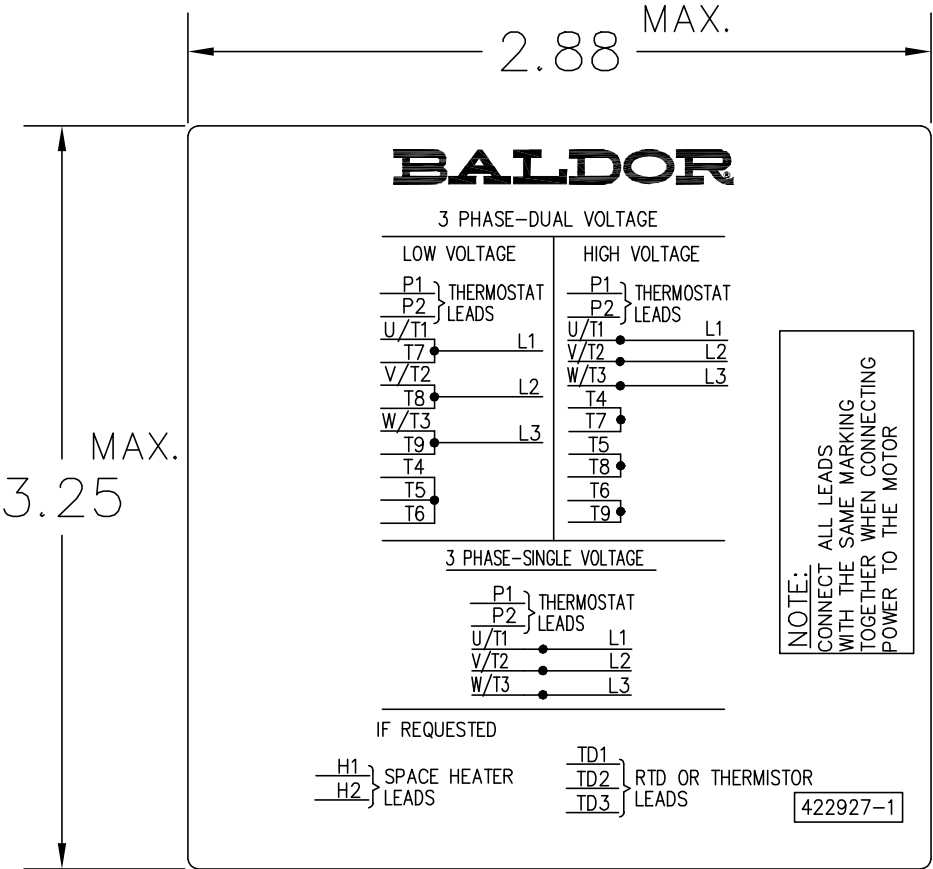
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**AC MOTOR
PERFORMANCE
DATA**

L9085A
 ISSUE DATE: 10/1/21



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