

ABB BALDOR RELIANCE III

Customer information packet

IDDRPM322504R1ED

250HP, 1750, 460V, RL3203, DPFV, F1

Specifications

Enclosure	DPFV
Frame	RL3203Z
Frame Material	Exposed Laminations
Frequency	60.00 Hz
Output @ Frequency	250.000 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	291.000 A @ 460.0 V
Duty Rating	CONT
Feedback Device	NO FEEDBACK
Frame Prefix	RL
Heater Indicator	No Heater
High Voltage Full Load Amps	291.0 a
Insulation Class	H
IP Rating	NONE
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	46.10 IN
Product Family	Extruder
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.00
Shaft Diameter	2.874 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Speed	1770 rpm
Starting Method	Full Voltage

Part Detail

Revision	-
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	L9455A
Layout	619691-001
Eff. date	03-15-2023
CD Diagram	422927-001
Poles	04
Leads	
Proprietary	False
Created date	02-28-2023

Thermal Device - Bearing	None
Thermal Device - Winding	Thermostat And RTD

Nameplate

000613006ABS									
	DUTY	HP	RPM	AMPS	VOLTS	HZ			
	CONT	250	1770		291	460	60		
	CONT	250	2212		281	460	75		
	CONT	250	2948		284	460	100		
CAT.NO.	IDDRPM322504R1ED			SPEC. NO.	R32-A000-0411				
SER.NO				FR	RL3203Z	INSUL	H		
PH.	3	MAX SAFE SPEED			4000	AMB.	40	MIN. AMB.	-25
DESIGN NO.	L9455A			TYPE		ENCL.	DPG-FV		
S.F.	1.00			D.E. BRG.	85BC02J30X				
ENCL MOD				O.D.E. BRG.	6313/C3VL0241				
	IP23								

FRAME	RL3203	AMPS	289	MAX SAFE SPEED	4000				
HP	250	DUTY	CONT	IM (AMPS)	89.9	R1	.0179	X1	.104
BASE SPEED	1768	S.F.	1.0	P.F. @NL / FL	.042/.883	R2	.0116	X2	.100
PHASE/HZ	3/60	AMB.°C / INSUL	52/H	WK ² (Lb-Ft ²)	21.3			XM	3.02

RATED FULL LOAD DATA

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
BASE SPEED	1769	250	742	460	60	289
MAX SPEED	2943	250	446	460	100	291
MIN SPEED	0	0	742	15.3	1.04	289

LOAD PERFORMANCE AT BASE SPEED

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	1800	0	0	460	60	88.1
1/4	1793	62.5	183	460	60	113
1/2	1785	125	368	460	60	162
3/4	1777	187	554	460	60	222
FULL LOAD	1769	250	742	460	60	289
0/L	1726	488	1485	460	60	599

**REMARKS:
TYPICAL DATA**

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CHECKED BY: R.GARCIA
APPROVED BY: J.MARTIN
DATE: 01-23-23**

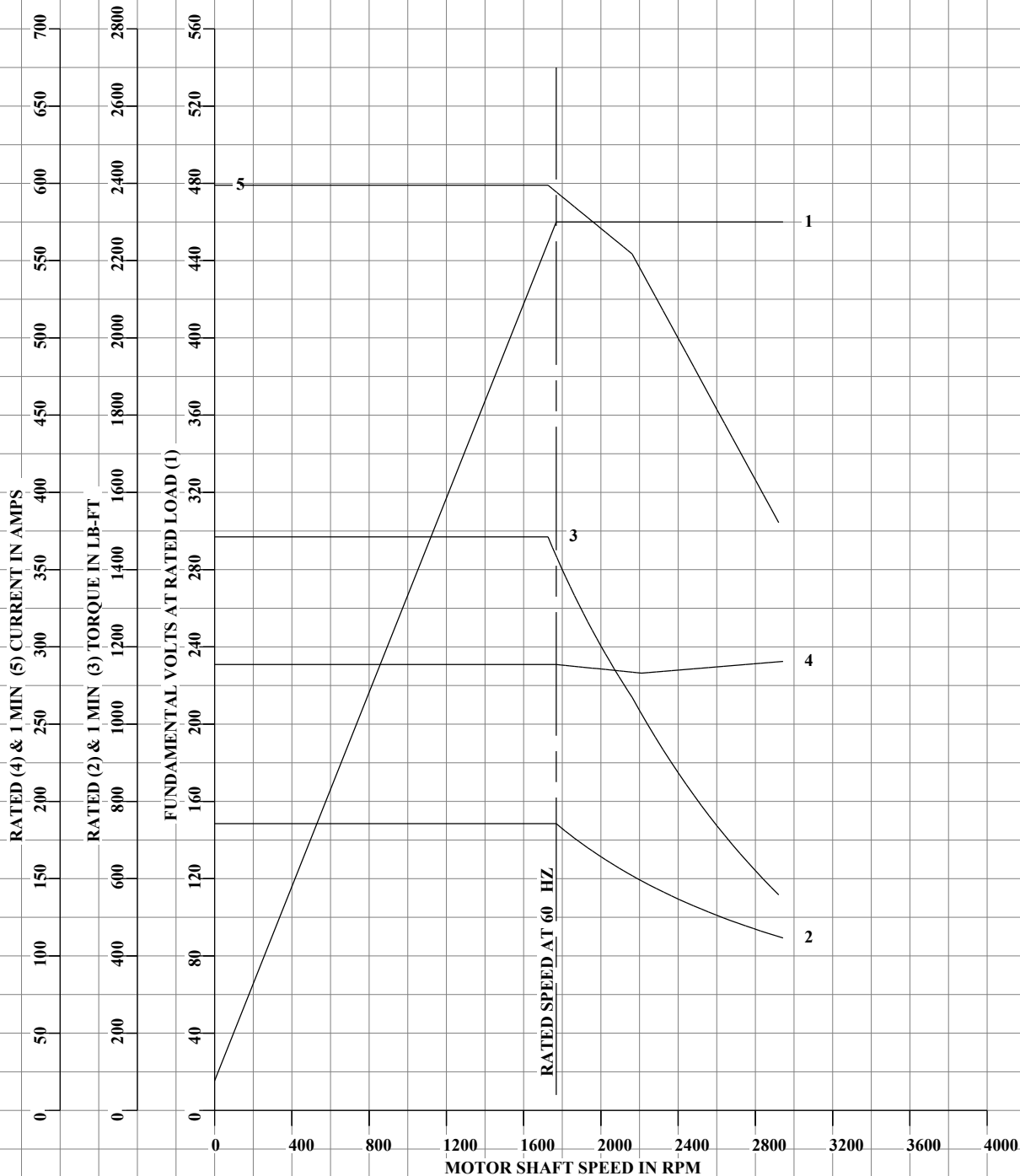
**AC MOTOR
PERFORMANCE
DATA**

L9455A

ISSUE DATE 01-23-23

FRAME	RL3203	VOLTS	460	ENCLOSURE	DPFV	WYE CONN EQ CKT OHMS PER PHASE (AT BASE RATING, 25°C)		
HP	250	AMPS	289	MAX SAFE SPEED	4000	R1	.0179	X1 .104
BASE SPEED	1768	DUTY	CONT	IM (AMPS)	89.9	R2	.0116	X2 .100
PHASE/HZ	3/60	S.F.	1.0	P.F. @NL / FL	.042/.883			XM 3.02
		AMB.°C / INSUL	52/H	WK ² (Lb-Ft ²)	21.3			

VARIABLE SPEED AC MOTOR CURVES



TYPICAL DATA, DATA VALID FOR NAMEPLATE SPEED RANGE ONLY



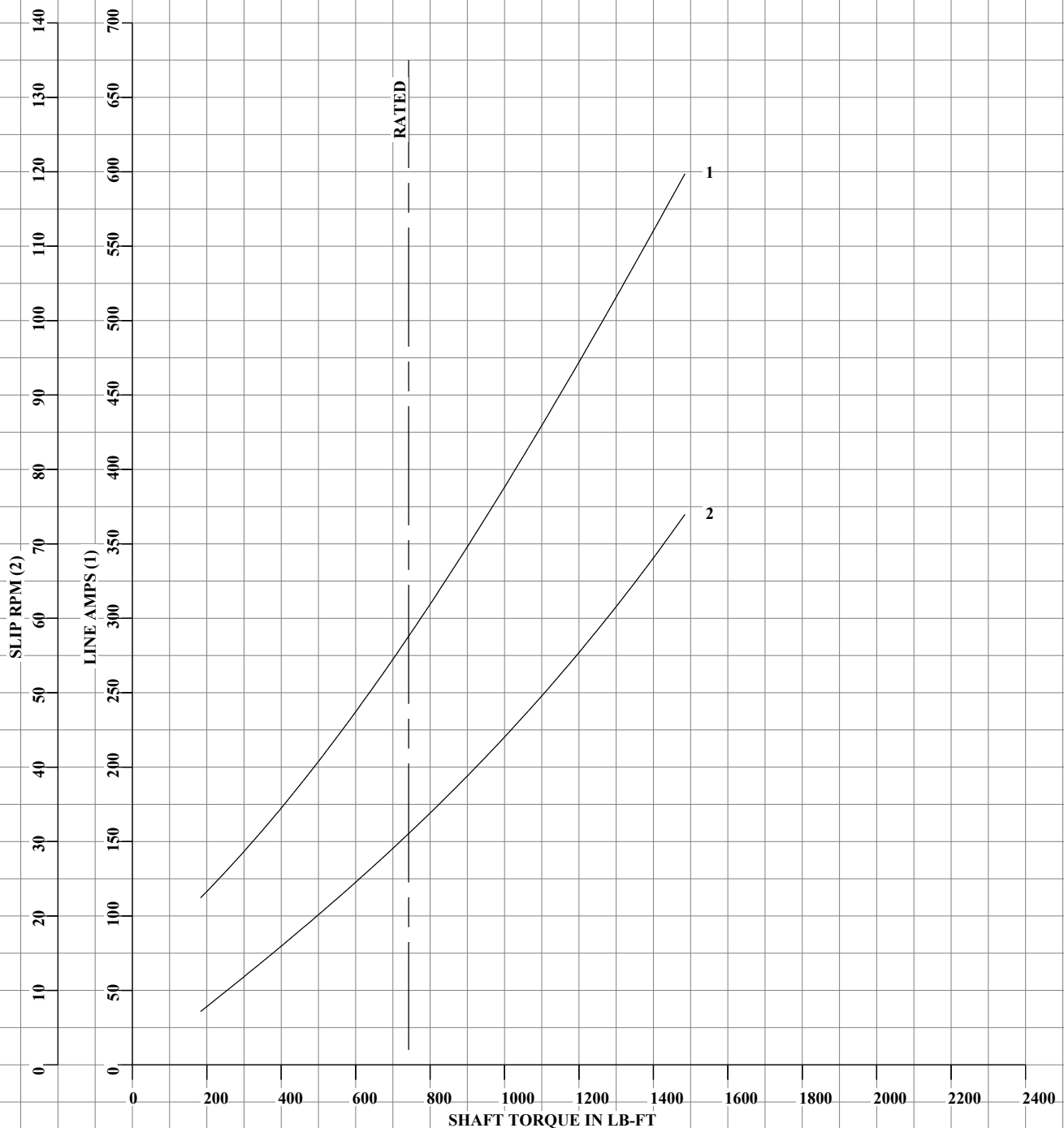
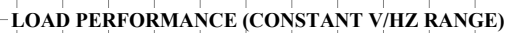
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**AC MOTOR
PERFORMANCE
DATA**

L9455A

ISSUE DATE: 01-23-23

FRAME	RL3203	AMPS	289	MAX SAFE SPEED	4000	(AT BASE RATING, 25°C)		
HP	250	DUTY	CONT	IM (AMPS)	89.9	R1	.0179	X1 .104
BASE SPEED	1768	S.F.	1.0	P.F. @NL / FL	.042/.883	R2	.0116	X2 .100
PHASE/HZ	3/60	AMB.°C / INSUL	52/H	WK² (Lb-Ft²)	21.3			XM 3.02



TYPICAL DATA, DATA VALID FOR NAMEPLATE SPEED RANGE ONLY

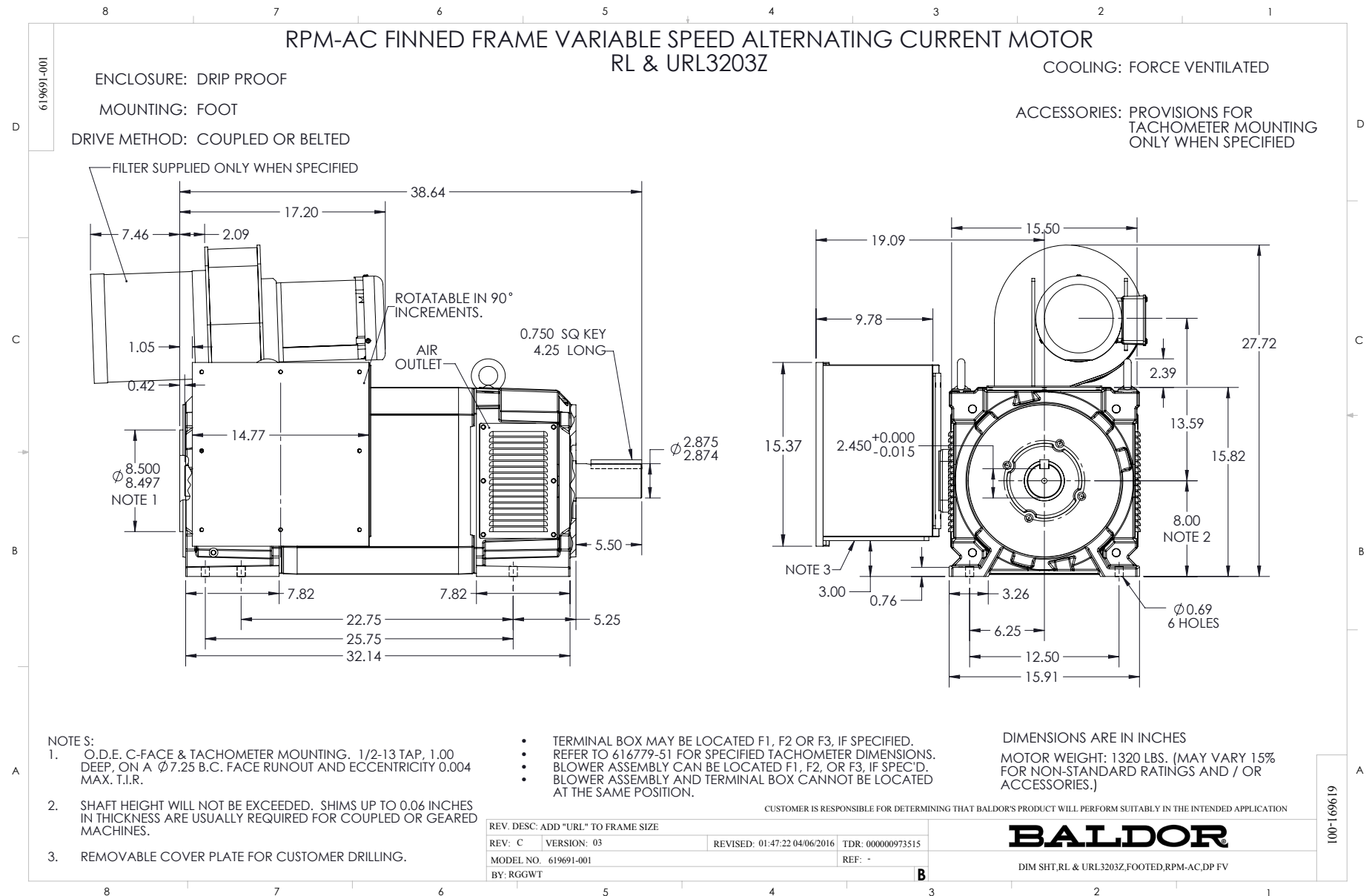


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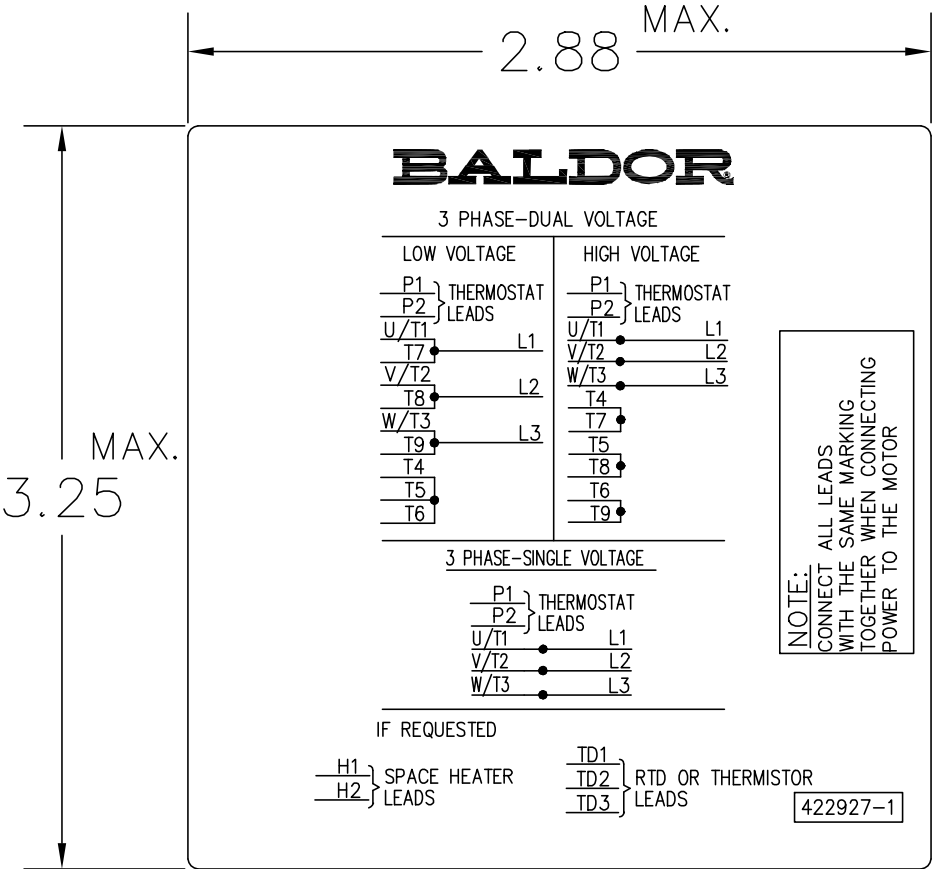
AC MOTOR PERFORMANCE DATA

L9455A

ISSUE DATE: 01-23-23



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