

ABB BALDOR RELIANCE III

Customer information packet

IDDRPM364004R1ED

400HP, 1750, 460V, RL3614, DPFV, F1

Specifications

Enclosure	DPFV
Frame	RL3614Z
Frame Material	Exposed Laminations
Frequency	60.00 Hz
Output @ Frequency	400.000 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	459.000 A @ 460.0 V
Duty Rating	CONT
Feedback Device	NO FEEDBACK
Frame Prefix	RL
Heater Indicator	No Heater
High Voltage Full Load Amps	459.0 a
Insulation Class	H
IP Rating	NONE
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	52.70 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	1777 rpm
Starting Method	Full Voltage

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	L9458A
Layout	619684-001
Eff. date	06-28-2023
CD Diagram	422927-001
Poles	04
Leads	
Proprietary	False
Created date	03-01-2023

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

Nameplate

000613006ABS							
	DUTY	HP	RPM	AMPS	VOLTS	HZ	
	CONT	400	1777		460	460	60
	CONT	400	2400		450	460	81.1
	CONT	400	2700		453	460	91.3
CAT.NO.	IDDRPM364004R1ED		SPEC. NO.		R36-A000-0267		
SER.NO			FR	RL3614Z	INSUL	H	
PH.	3	MAX SAFE SPEED		3750	AMB.	40	MIN. AMB. -25
DESIGN NO.	L9458A		TYPE		ENCL.	DPG-FV	
S.F.	1.00		D.E. BRG.		95BC02J30X		
ENCL MOD			O.D.E. BRG.		6316/C3VL0241		
	IP23						

FRAME	RL3614	AMPS	460	MAX SAFE SPEED	3750				
HP	400	DUTY	CONT	IM (AMPS)	146	R1	.00910	X1	.0657
BASE SPEED	1777	S.F.	1.0	P.F. @NL / FL	.039/.877	R2	.00528	X2	.0657
PHASE/HZ	3/60	AMB.°C / INSUL	40/H	WK ² (Lb-Ft ²)	45			XM	1.86

RATED FULL LOAD DATA

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
BASE SPEED	1776	400	1183	460	60	462
MAX SPEED	2700	400	778	460	91.3	455
MIN SPEED	0	0	1183	13.3	.814	462

LOAD PERFORMANCE AT BASE SPEED

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	1800	0	0	460	60	143
1/4	1794	100	294	460	60	183
1/2	1788	200	588	460	60	261
3/4	1782	300	884	460	60	356
FULL LOAD	1776	400	1183	460	60	462
0/L	1741	785	2366	460	60	969

REMARKS:
TYPICAL DATA
CORRELATED DATA



DRAWN BY: A. BROOKINS
CHECKED BY: B. GRANT
APPROVED BY: J. MARTIN
DATE: 3-14-23

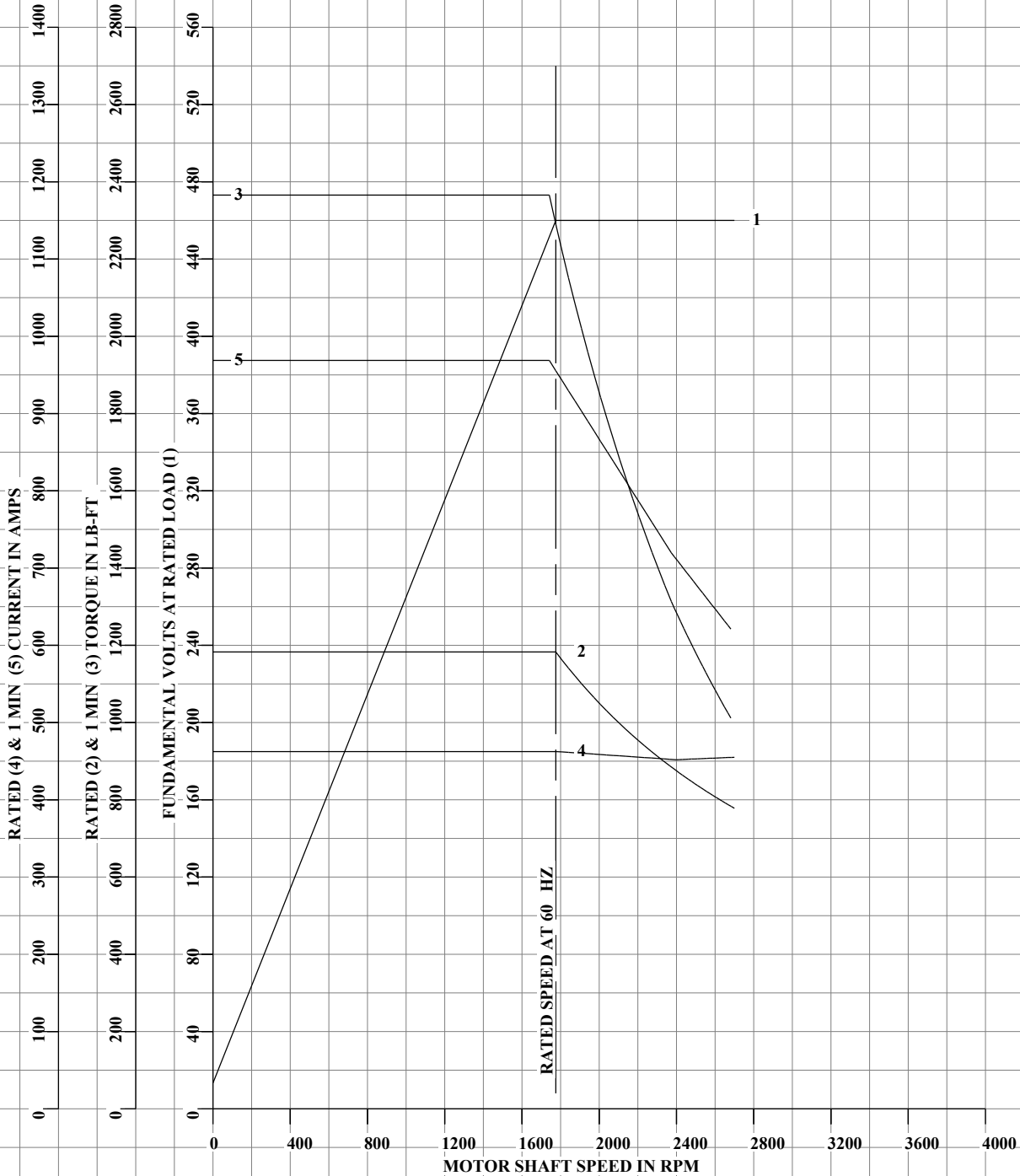
**AC MOTOR
PERFORMANCE
DATA**

L9458A

ISSUE DATE 3-14-23

FRAME	RL3614	VOLTS	460	ENCLOSURE	DPEV	WYE CONNECTION OHMS PER PHASE (AT BASE RATING, 25°C)		
HP	400	AMPS	460	MAX SAFE SPEED	3750	R1	.00910	X1 .0657
BASE SPEED	1777	DUTY	CONT	IM (AMPS)	146	R2	.00528	X2 .0657
PHASE/HZ	3/60	S.F.	1.0	P.F. @NL / FL	.039/.877			XM 1.86
		AMB.°C / INSUL	40/H	WK ² (Lb-Ft ²)	45			

**CORRELATED DATA
VARIABLE SPEED AC MOTOR CURVES**



TYPICAL DATA, DATA VALID FOR NAMEPLATE SPEED RANGE ONLY



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 CHECKED BY: B. GRANT
 APPROVED BY: J. MARTIN
 DATE: 3-14-23

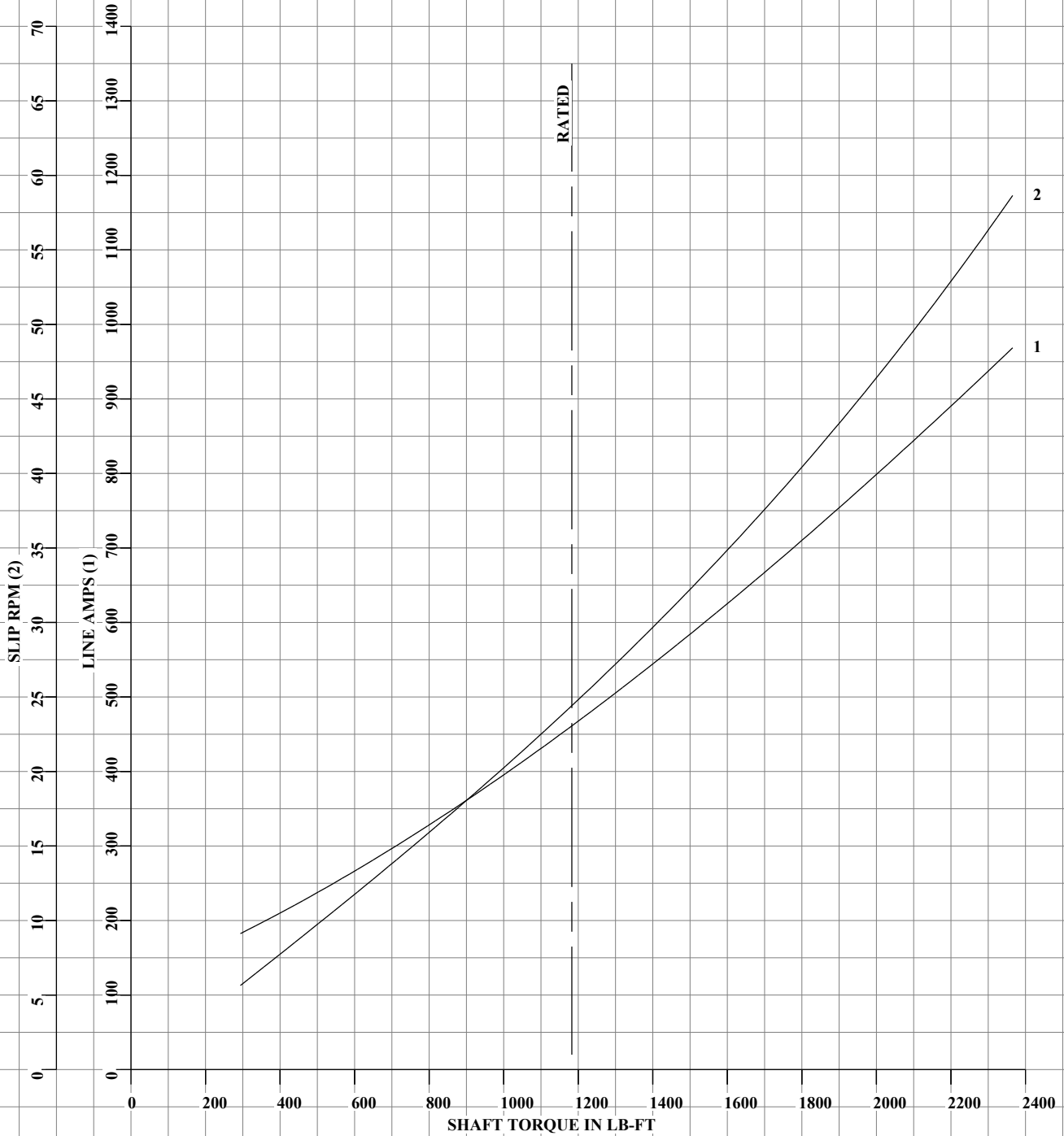
**AC MOTOR
PERFORMANCE
DATA**

L9458A

ISSUE DATE: 3-14-23

FRAME	RL3614	VOLTS	460	ENCLOSURE	DPFV	WYE CONN EQ CKT OHMS PER PHASE (AT BASE RATING, 25°C)		
HP	400	AMPS	460	MAX SAFE SPEED	3750	R1	.00910	X1 .0657
BASE SPEED	1777	DUTY	CONT	IM (AMPS)	146	R2	.00528	X2 .0657
PHASE/HZ	3/60	S.F.	1.0	P.F. @NL / FL	.039/.877			XM 1.86
		AMB.°C / INSUL	40/H	WK ² (Lb-Ft ²)	45			

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



TYPICAL DATA, DATA VALID FOR NAMEPLATE SPEED RANGE ONLY

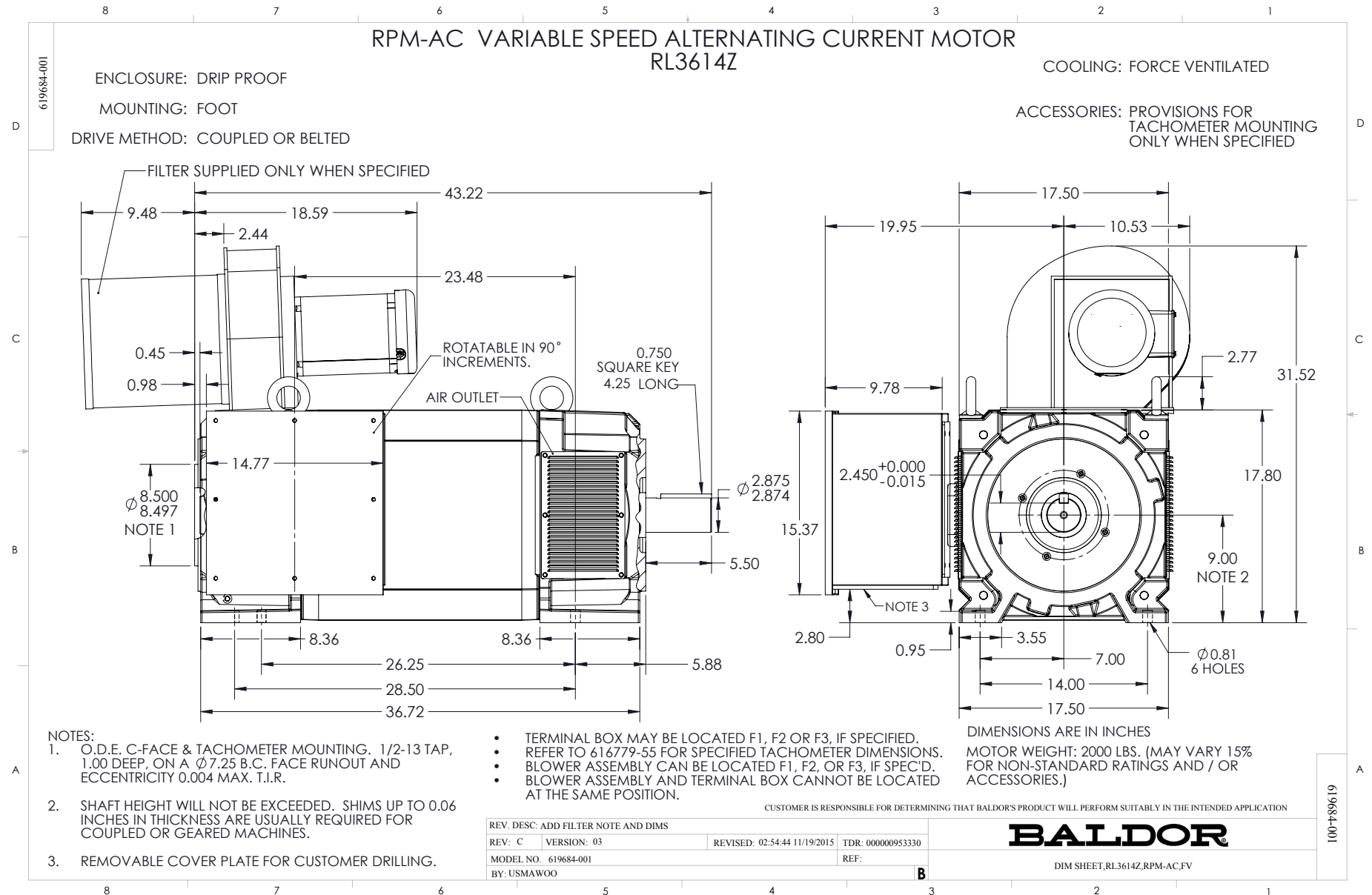


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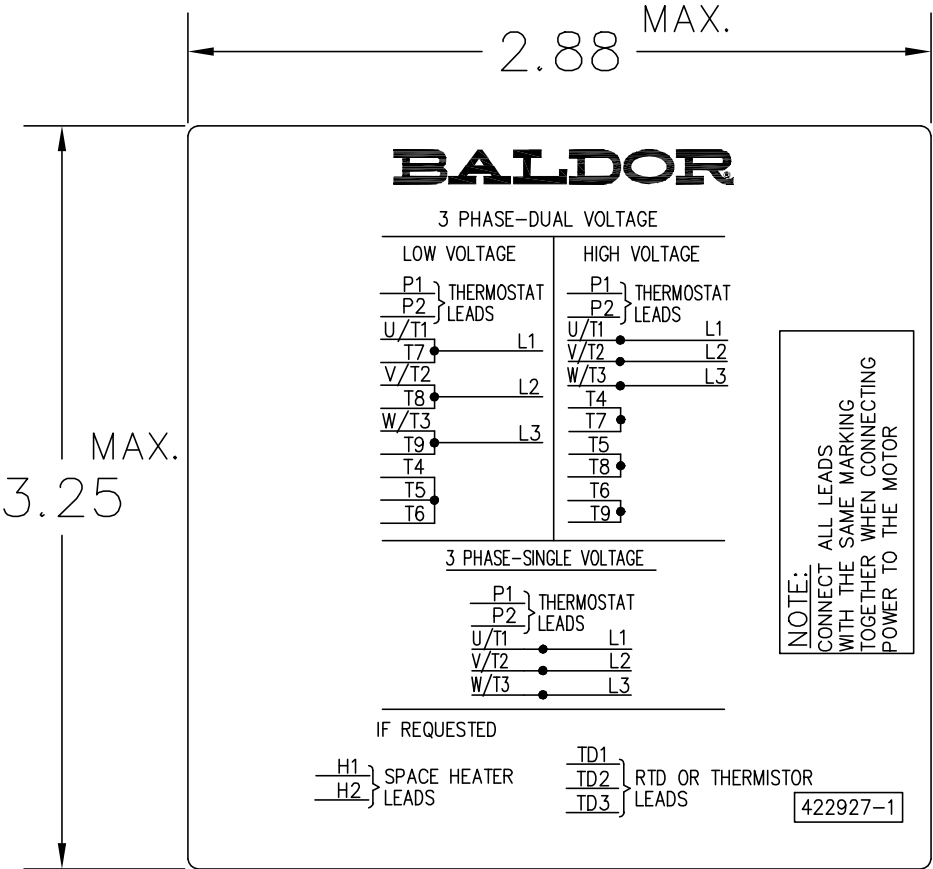
**AC MOTOR
PERFORMANCE
DATA**

L9458A

ISSUE DATE: 3-14-23



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