ABB BALDOR RELIANCE

Customer information packet

IDDRPM364004R1

400HP, 1775/2400/2700, 460V, RL3614, DPFV, F1

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Specifications

Enclosure	DPFV
Frame	RL3614
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
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	43.22 IN
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Service Factor	1.00
Shaft Diameter	2.874 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Speed	1777 rpm
Starting Method	Full Voltage
Thermal Device - Bearing	None

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	L9458A
Layout	619684-001
Eff. date	08-21-2023
CD Diagram	422927-001
Poles	04
Leads	
Proprietary	False
Created date	02-03-2023

Thermal Device - Winding	Normally Closed Thermostat

Nameplate

000613006MY

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.	IDDRPM364004R1		**SPEC. NO.**	R36-A000-0264			
SER.NO		**FR**	RL 3614	**INSUL**	H		
PH.	3	**MAX SAFE SPEED**	3750	**AMB.**	40	**MIN. AMB.**	-25
DESIGN NO.	L9458A	**TYPE**		**ENCL.**	DP		
S.F.	1.0	**D.E. BRG.**	95BC02J30X				
ENCL MOD	FORCE VENT	**O.D.E. BRG.**	80BC03J30X				

SPEC		**VOLTS**	**460**	**ENCLOSURE**	**DPFV**	**WYE CONN EQ CKT OHMS PER PHASE (AT BASE RATING, 25°C)**			
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**	**WK² (Lb-Ft²)**	**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

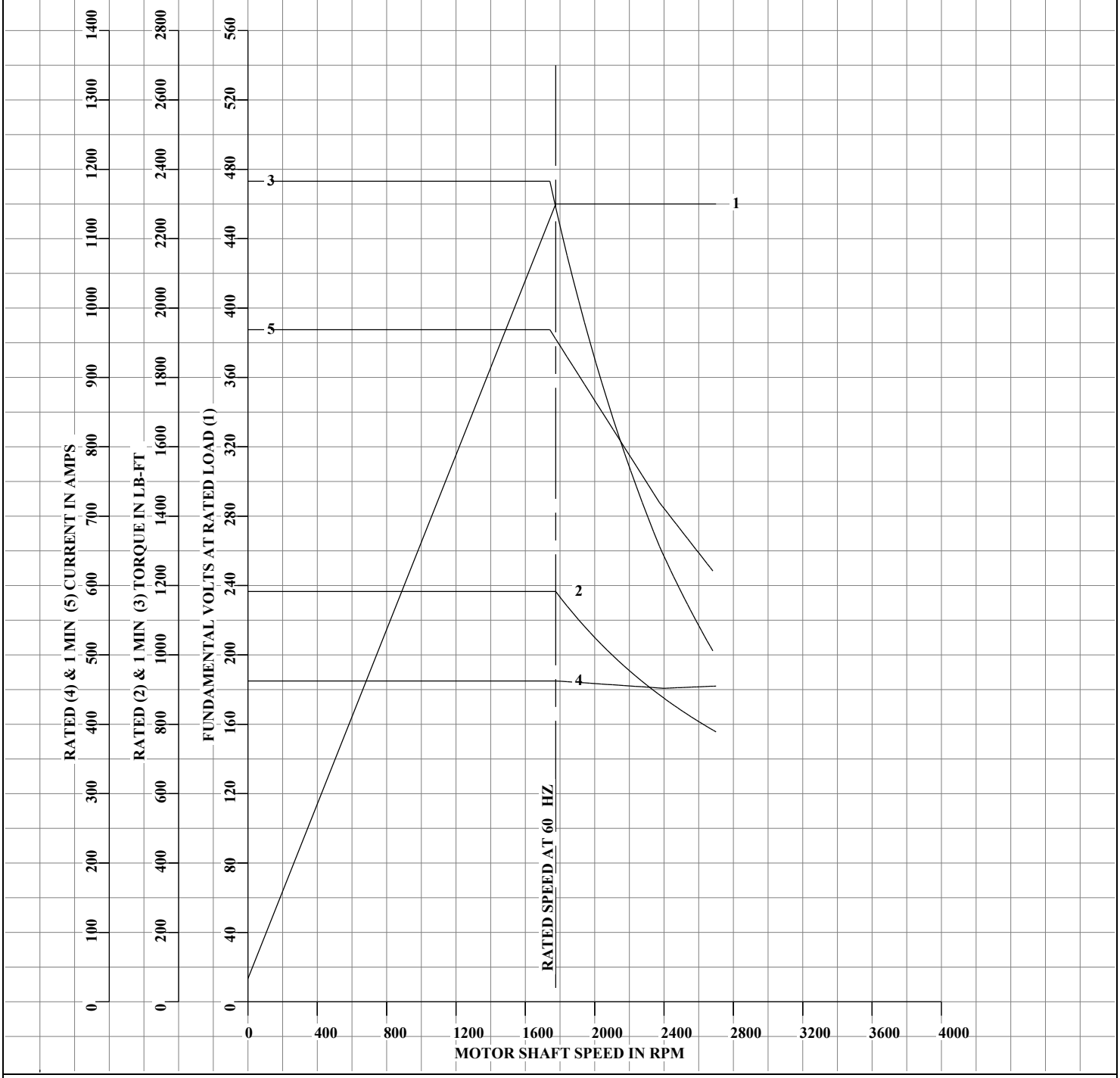
	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	**1800**	**0**	**0**	**460**	**60**	**143**
1/4	**1794**	**100**	**294**	**460**	**60**	**183**
1/2	**1788**	**200**	**588**	**460**	**60**	**261**
3/4	**1782**	**300**	**884**	**460**	**60**	**356**
FULL LOAD	**1776**	**400**	**1183**	**460**	**60**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

REMARKS:
TYPICAL DATA
CORRELATED DATA

ABB	**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**

SPEC		VOLTS	460	ENCLOSURE	DPFV	WYE CONN EQ CKT OHMS PER PHASE (AT BASE RATING, 25°C)			
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	WK² (Lb-Ft²)	45			XM	1.86

CORRELATED DATA
VARIABLE SPEED AC MOTOR CURVES



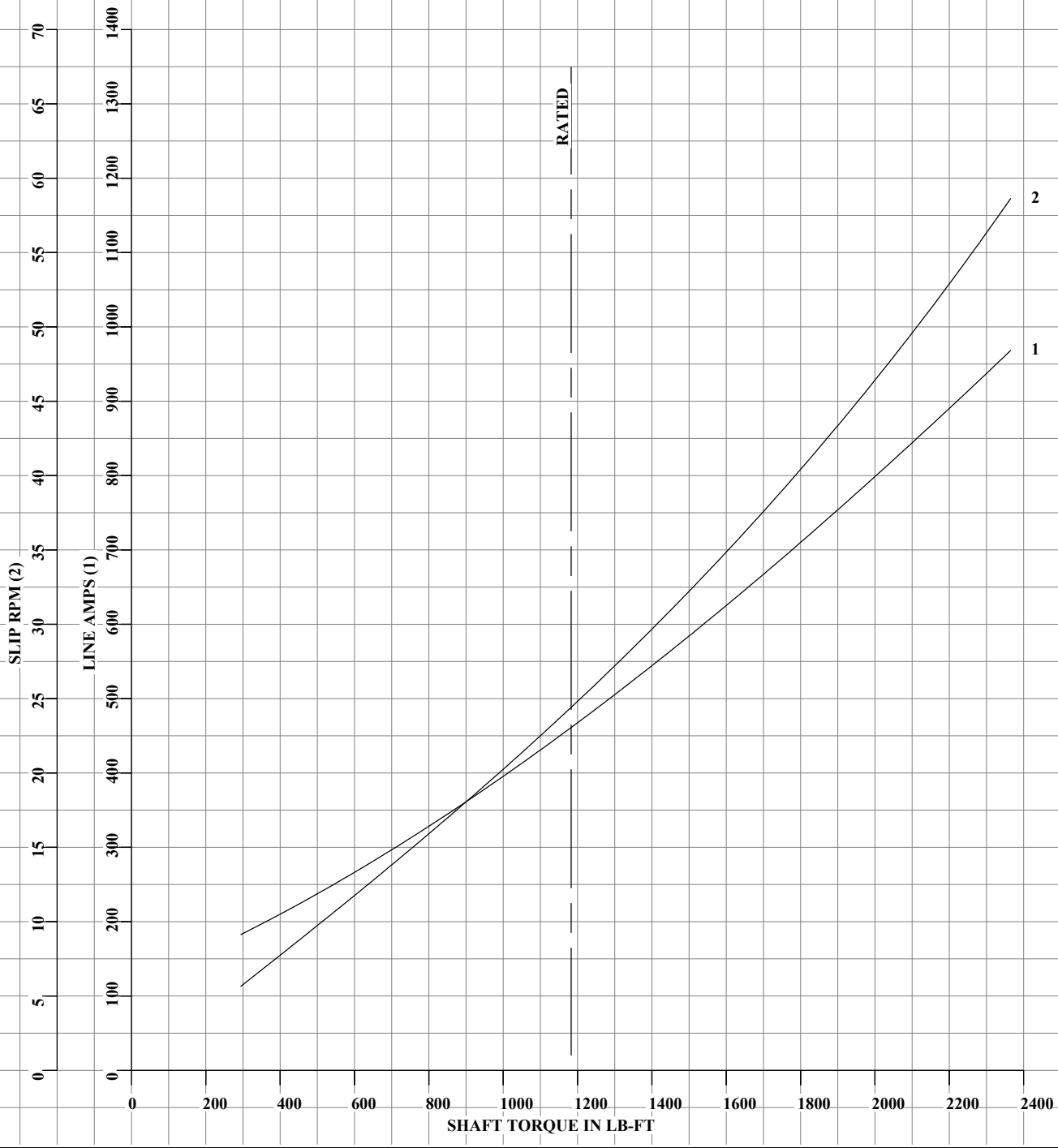
TYPICAL DATA, DATA VALID FOR NAMEPLATE SPEED RANGE ONLY

ABB	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

SPEC		VOLTS	460	ENCLOSURE	DPFV	WYE CONN EQ CKT OHMS PER PHASE (AT BASE RATING, 25°C)			
FRAME	RL3614	AMPS	460	MAX SAFE SPEED	3750				
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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	WK² (Lb-Ft²)	45			XM	1.86

CORRELATED DATA

LOAD PERFORMANCE (CONSTANT V/HZ RANGE)



TYPICAL DATA, DATA VALID FOR NAMEPLATE SPEED RANGE ONLY

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RPM-AC VARIABLE SPEED ALTERNATING CURRENT MOTOR
RL3614Z

619684-001

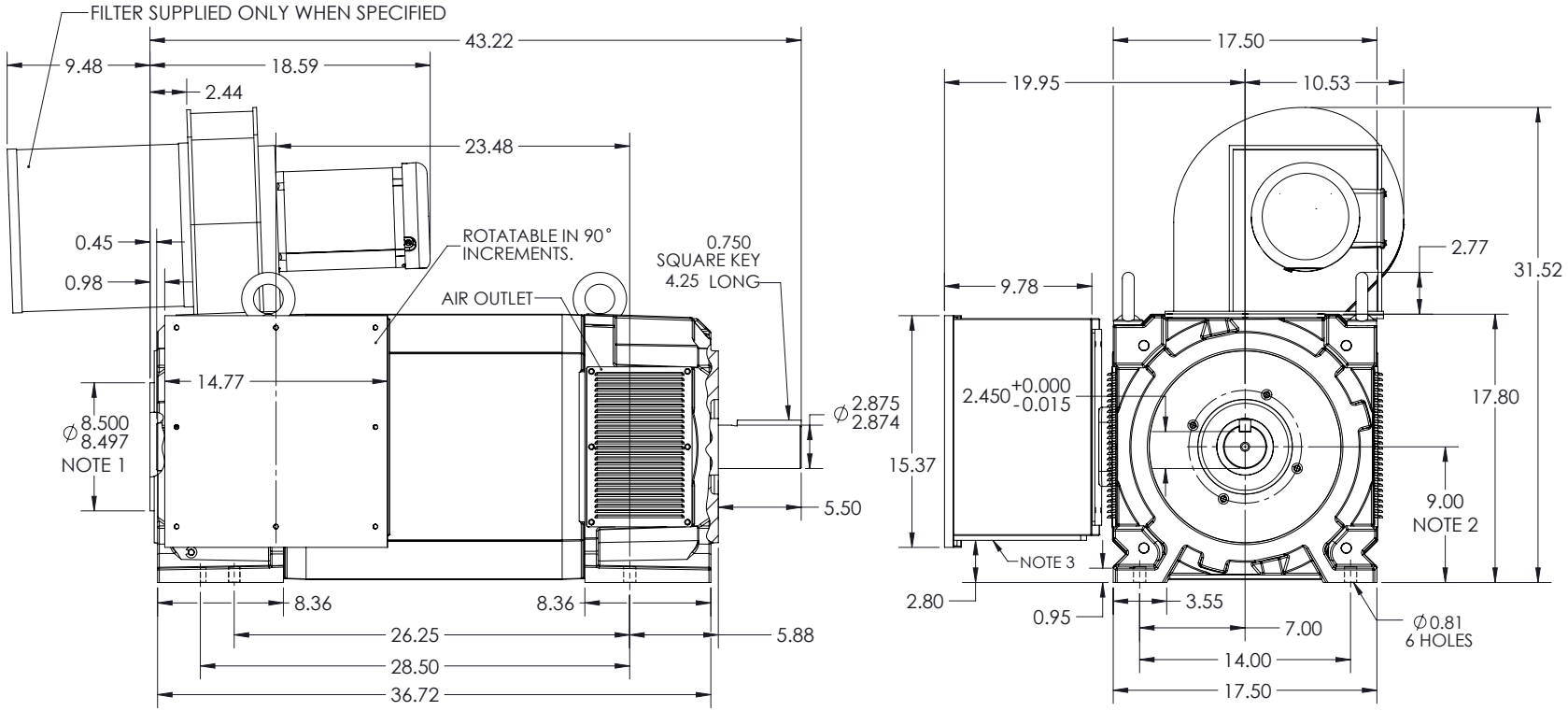
ENCLOSURE: DRIP PROOF

MOUNTING: FOOT

DRIVE METHOD: COUPLED OR BELTED

COOLING: FORCE VENTILATED

ACCESSORIES: PROVISIONS FOR TACHOMETER MOUNTING ONLY WHEN SPECIFIED



NOTES:

1. O.D.E. C-FACE & TACHOMETER MOUNTING. 1/2-13 TAP, 1.00 DEEP, ON A ∅7.25 B.C. FACE RUNOUT AND ECCENTRICITY 0.004 MAX. T.I.R.
2. SHAFT HEIGHT WILL NOT BE EXCEEDED. SHIMS UP TO 0.06 INCHES IN THICKNESS ARE USUALLY REQUIRED FOR COUPLED OR GEARED MACHINES.
3. REMOVABLE COVER PLATE FOR CUSTOMER DRILLING.

- TERMINAL BOX MAY BE LOCATED F1, F2 OR F3, IF SPECIFIED.
- REFER TO 616779-55 FOR SPECIFIED TACHOMETER DIMENSIONS.
- BLOWER ASSEMBLY CAN BE LOCATED F1, F2, OR F3, IF SPEC'D.
- BLOWER ASSEMBLY AND TERMINAL BOX CANNOT BE LOCATED AT THE SAME POSITION.

DIMENSIONS ARE IN INCHES

MOTOR WEIGHT: 2000 LBS. (MAY VARY 15% FOR NON-STANDARD RATINGS AND / OR ACCESSORIES.)

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

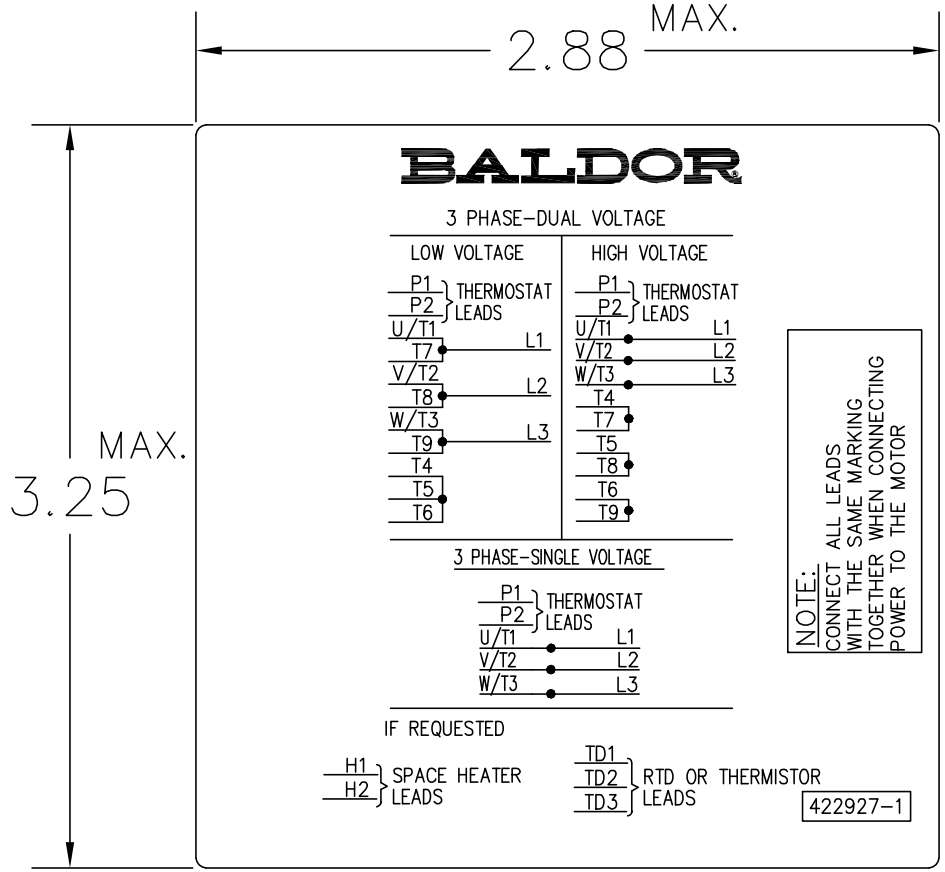
REV. DESC: ADD FILTER NOTE AND DIMS			
REV: C	VERSION: 03	REVISED: 02:54:44 11/19/2015	TDR: 000000953330
MODEL NO. 619684-001			REF:
BY: USMAWOO			B

BALDOR

DIM SHEET,RL3614Z,RPM-AC,FV

619684-001

422927–001



NOTE:
DATA TO BE SIZED SO THAT IT FITS INTO MATERIAL DECAL DIMENSIONS. MAKE LETTERS & NUMBERS AS LARGE AS POSIBLE.

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			BALDOR
REV. LTR: B	VERSION: 02	TDR: 000000788708	
FILE: \RGG\00000\203		REVISED: 08:09:29 03/04/2013	EXTERNAL CONNECTION LABEL
MTL: –		BY: RGGWT	SH 1 of 1