

ABB BALDOR RELIANCE III

Customer information packet

IDDRPM449004R1ED

900HP, 1750, 460V, RL4461, DPFV, F1

Specifications

Enclosure	DPFV
Frame	RL4461Z
Frame Material	Exposed Laminations
Frequency	90.00 Hz
Output @ Frequency	900.000 HP @ 90 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 90 HZ
Voltage @ Frequency	460.0 V @ 90 HZ
Agency Approvals	CCSA US
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	1101.000 A @ 460.0 V
Duty Rating	CONT
Feedback Device	NO FEEDBACK
Frame Prefix	RL
Heater Indicator	No Heater
High Voltage Full Load Amps	1101.0 a
Insulation Class	H
IP Rating	NONE
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	64.64 IN
Product Family	Extruder
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	1787 rpm
Starting Method	Full Voltage

Part Detail

Revision	A
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	L9490A
Layout	617602-001
Eff. date	03-23-2023
CD Diagram	422927-001
Poles	06
Leads	
Proprietary	False
Created date	03-07-2023

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

Nameplate

000613006ABS									
	DUTY	HP	RPM	AMPS	VOLTS	HZ			
	CONT	900	1787		1101	460	90		
	CONT	900	2300		1058	460	115.8		
CAT.NO.	IDDRPM449004R1ED			SPEC. NO.	R44-A000-0229				
SER.NO				FR	RL4461Z	INSUL	H		
PH.	3	MAX SAFE SPEED			2700	AMB.	40	MIN. AMB.	-25
DESIGN NO.	L9490A		TYPE		ENCL.	DPG-FV			
S.F.	1.00		D.E. BRG.		110BC02J30X				
ENCL MOD			O.D.E. BRG.		6222/C3VL0241				
	IDDRPM449004R1ED					IP23			

FRAME	RL4461	AMPS	1101	MAX SAFE SPEED	2700				
HP	900	DUTY	CONT	IM (AMPS)	454	R1	.00163	X1	.0257
BASE SPEED	1787	S.F.	1.0	P.F. @NL / FL	.028/.808	R2	.00130	X2	.0386
PHASE/HZ	3/90	AMB.°C / INSUL	40/H	WK ² (Lb-Ft ²)	189			XM	.581

RATED FULL LOAD DATA

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
BASE SPEED	1787	900	2645	460	90	1101
MAX SPEED	2299	901	2057	460	115.8	1058
MIN SPEED	0	0	2645	5.26	.6490	1101

LOAD PERFORMANCE AT BASE SPEED

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	1800	0	0	460	90	454
1/4	1797	225	658	460	90	521
1/2	1794	451	1319	460	90	679
3/4	1791	675	1979	460	90	877
FULL LOAD	1787	900	2645	460	90	1101
0/L	1770	1784	5291	460	90	2156

REMARKS:



DRAWN BY: A. BROOKINS
CHECKED BY: R. GARCIA
APPROVED BY: J. MARTIN
DATE: 3-20-23

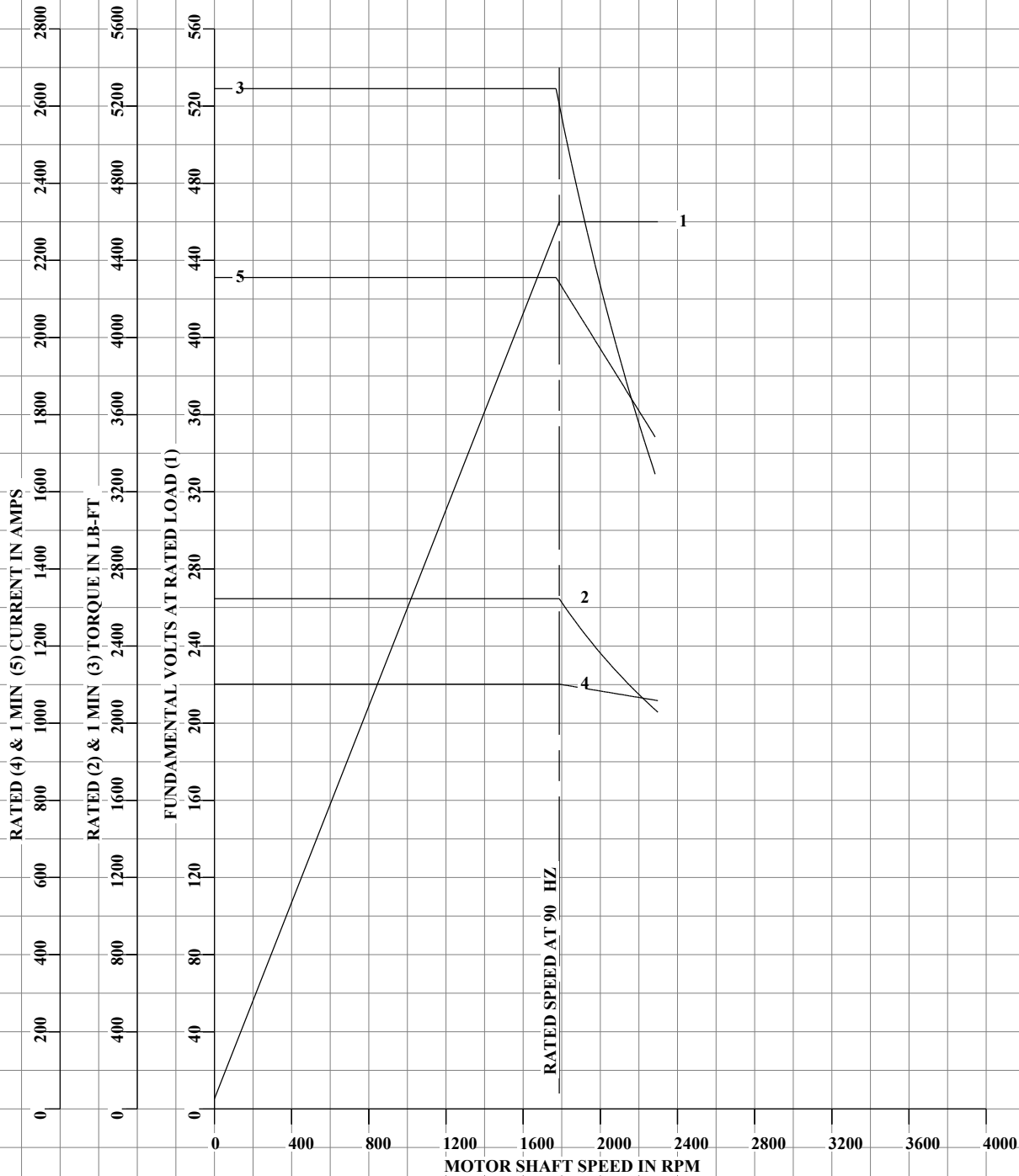
**AC MOTOR
PERFORMANCE
DATA**

L9490A

ISSUE DATE 3-20-23

FRAME	RL4461	VOLTS	460	ENCLOSURE	DPFV	WYE CONNECT OHMS PER PHASE (AT BASE RATING, 25°C)		
HP	900	AMPS	1101	MAX SAFE SPEED	2700	R1	.00163	X1 .0257
BASE SPEED	1787	DUTY	CONT	IM (AMPS)	454	R2	.00130	X2 .0386
PHASE/HZ	3/90	S.F.	1.0	P.F. @NL / FL	.028/.808			XM .581
		AMB.°C / INSUL	40/H	WK ² (Lb-Ft ²)	189			

VARIABLE SPEED AC MOTOR CURVES



DATA VALID FOR NAMEPLATE SPEED RANGE ONLY



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 DATE: 3-20-23

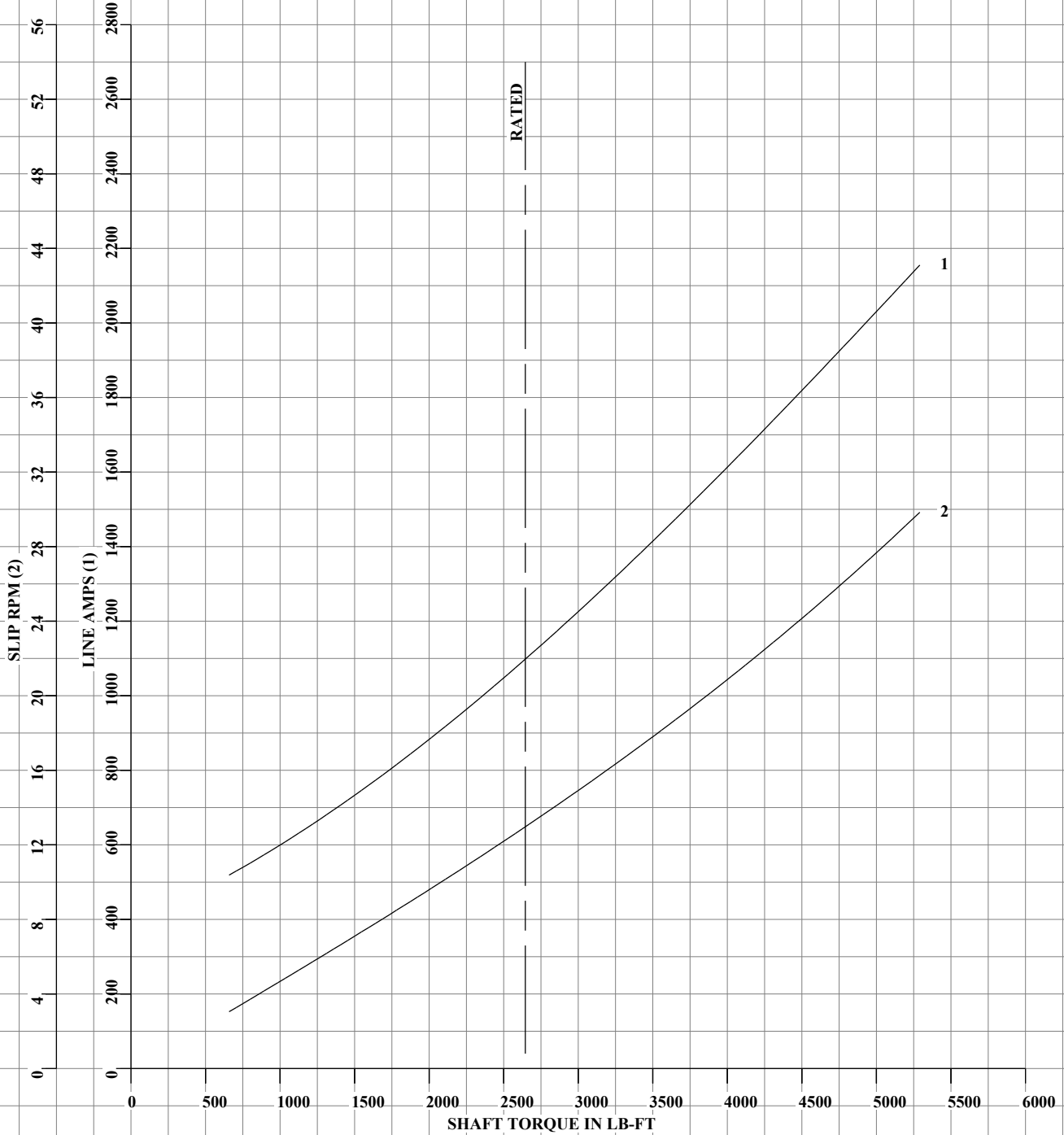
**AC MOTOR
PERFORMANCE
DATA**

L9490A

ISSUE DATE: 3-20-23

FRAME	RL4461	VOLTS	460	ENCLOSURE	DPFV	WYE CONNECTION OHMS PER PHASE (AT BASE RATING, 25°C)		
HP	900	AMPS	1101	MAX SAFE SPEED	2700	R1	.00163	X1 .0257
BASE SPEED	1787	DUTY	CONT	IM (AMPS)	454	R2	.00130	X2 .0386
PHASE/HZ	3/90	S.F.	1.0	P.F. @NL / FL	.028/.808			XM .581
		AMB.°C / INSUL	40/H	WK² (Lb-Ft²)	189			

LOAD PERFORMANCE (CONSTANT V/HZ RANGE)



DATA VALID FOR NAMEPLATE SPEED RANGE ONLY

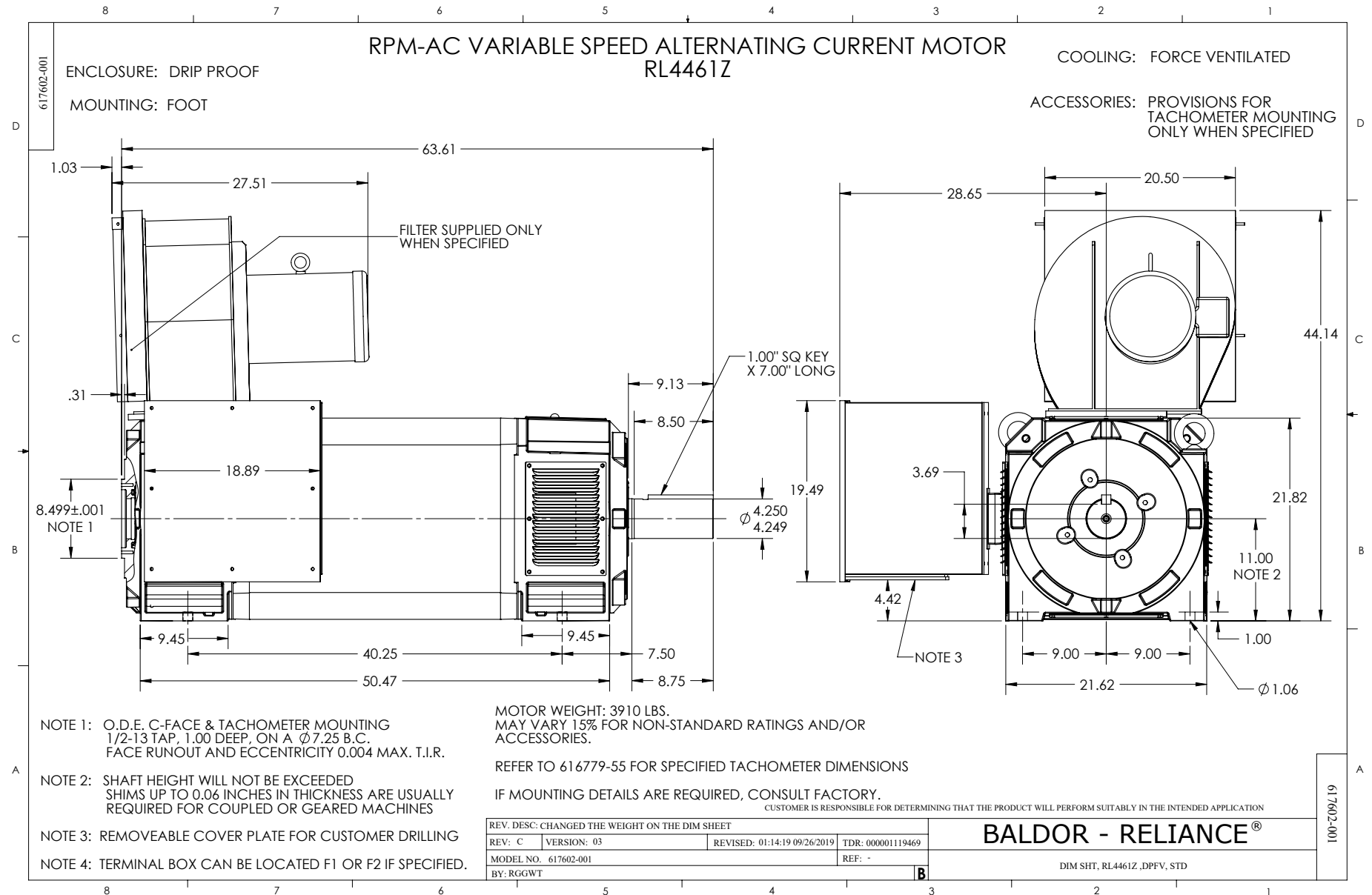


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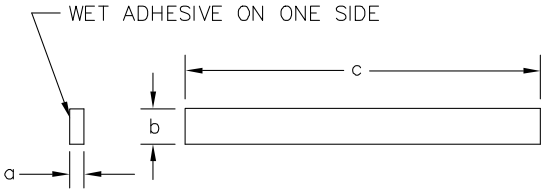
AC MOTOR
 PERFORMANCE
 DATA

L9490A

ISSUE DATE: 3-20-23



065564-004



SYM	MAKE FROM	a	b	c	REMARKS
A	X	1/8	5/8	24*	TERMBX & CVR 180AT-250AT
B	X	1/8	5/8	37 1/2*	TERMBX & CVR 280AT-320AT
C	Y	1/4	5/8	44 1/2△	FILTER TO HOUSING GASKET
D	X	1/8	5/8	170"	TEAO HEAT EXCH.
E	Y	1/4	5/8	72"△	TERMBX & CVR

SYM	MAT'L SPEC	a	b	c
X	46024-XV	1/8	5/8	* 50' ROLL; WET ADHESIVE ON ONE SIDE
Y	46024-XV	1/4	5/8	* 50' ROLL; WET ADHESIVE ON ONE SIDE

△ RELIANCE WILL CUT AND MOUNT ON FILTER HOUSING PER ASSEMBLY DRAWING 603989-2.

* PROD. NOTE: WHEN ORDERING THRU PURCHASING ORDER AS 50 FT. ROLLS, WET ADHESIVE ON ONE SIDE. RELIANCE WILL CUT AND MOUNT ON COVER. PER INSTRUCTIONS ON COVER DRAWINGS.

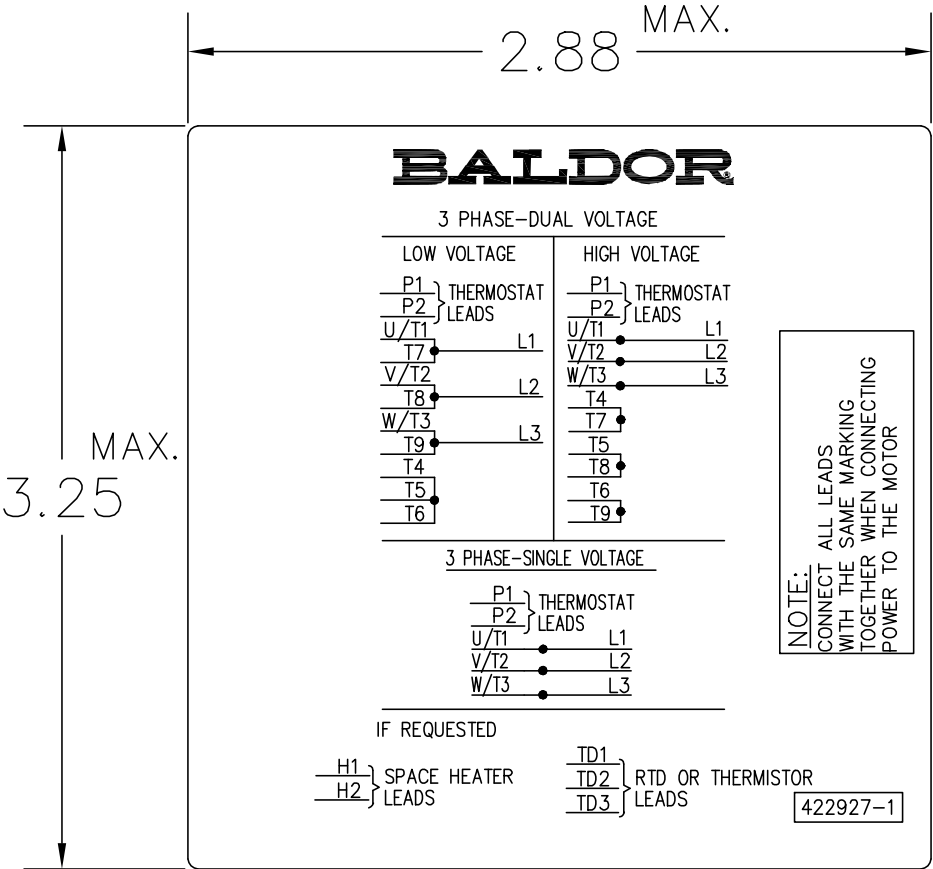
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

REV. DESC: CHANGE DESCRIPTION ON TITLE BLOCK		
REV. LTR: C	VERSION: 03	TDR: 000000571980
FILE: \RGG\00000\220	REVISED: 10:54:04 12/16/2010	BY: RGGWT
MTL: -		

BALDOR
GASKET,STRIP,CLOSED CELL NEOPRENE
SH 1 of 1

065564-004

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