ABB BALDOR RELIANCE

Customer information packet

IDDRPM322504R1

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

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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
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	46.10 IN
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.00
Shaft Diameter	2.874 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1770 rpm
Starting Method	Full Voltage
Thermal Device - Bearing	None

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	L9455A
Layout	619691-001
Eff. date	12-18-2025
CD Diagram	422927-001
Poles	04
Leads	
Proprietary	False
Created date	02-01-2023

Thermal Device - Winding	Normally Closed Thermostat

Nameplate

000613006MY

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.	IDDRPM322504R1		**SPEC. NO.**	R32-A000-0405			
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				

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

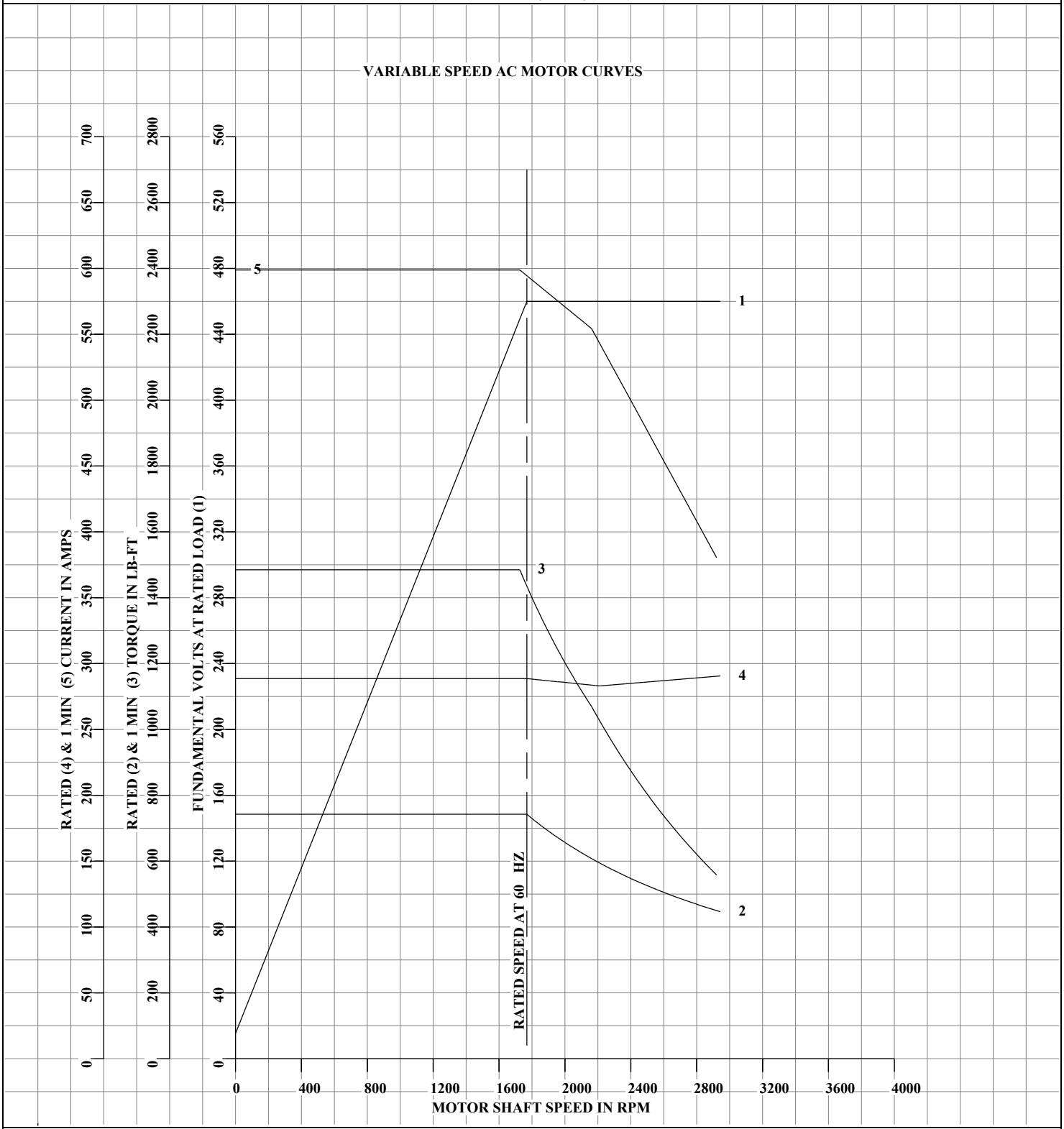
TYPICAL DATA

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ABB	**DRAWN BY: R.GARCIA** **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				
BASE SPEED	1768	DUTY	CONT	IM (AMPS)	89.9	R1	.0179	X1	.104
PHASE/HZ	3/60	S.F.	1.0	P.F. @NL / FL	.042/.883	R2	.0116	X2	.100
		AMB.°C / INSUL	52/H	WK² (Lb-Ft²)	21.3			XM	3.02

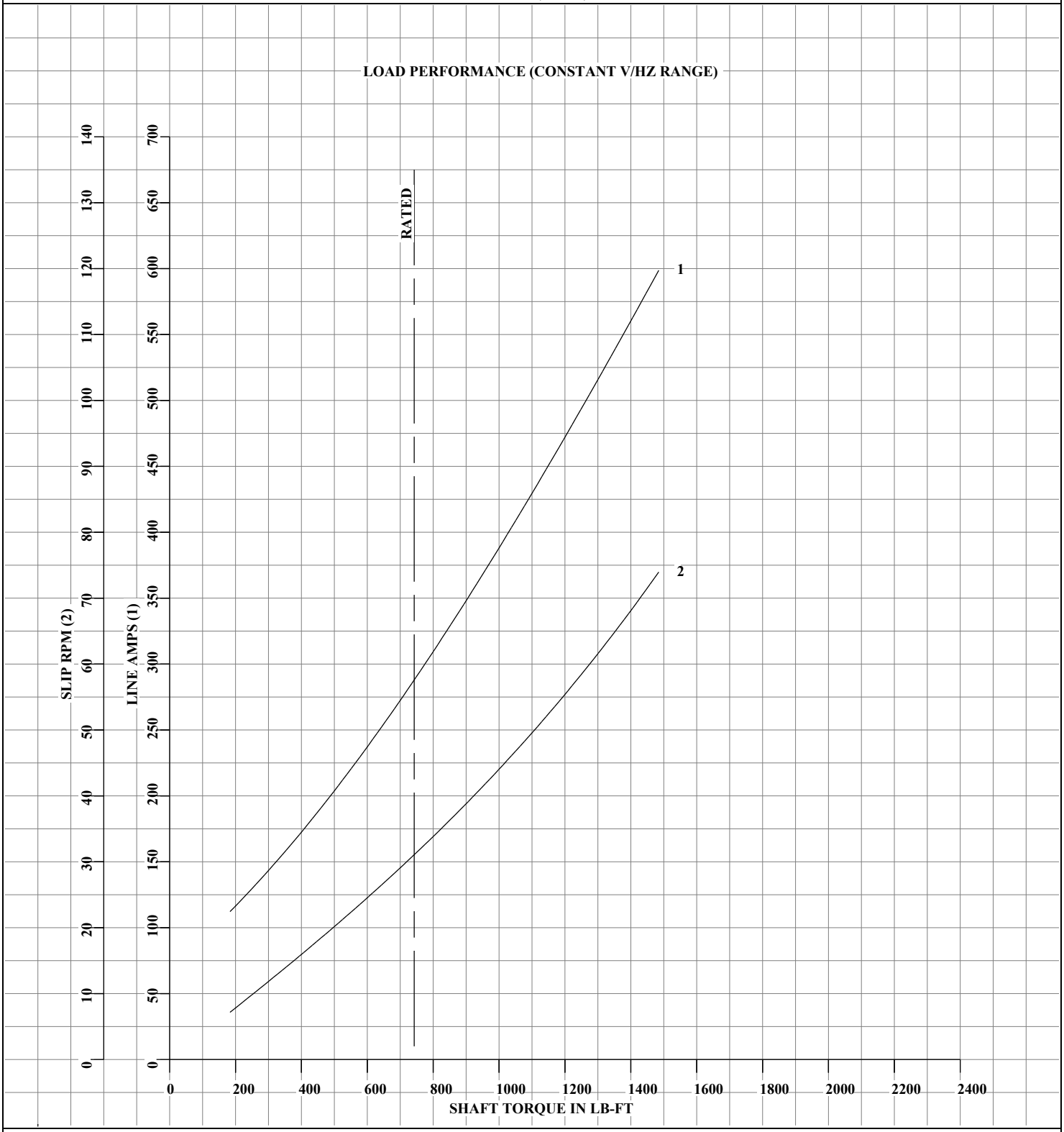
VARIABLE SPEED AC MOTOR CURVES



TYPICAL DATA, DATA VALID FOR NAMEPLATE SPEED RANGE ONLY

ABB	DRAWN BY: R.GARCIA CHECKED BY: R.GARCIA APPROVED BY: J.MARTIN DATE: 01-23-23	AC MOTOR PERFORMANCE DATA	L9455A ISSUE DATE: 01-23-23

SHAFT		VOLTS	460	ENCLOSURE	DPFV	WYE CONN EQ CKT OHMS PER PHASE (AT BASE RATING, 25°C)			
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	WK² (Lb-Ft²)	21.3			XM	3.02



TYPICAL DATA, DATA VALID FOR NAMEPLATE SPEED RANGE ONLY

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RPM-AC FINNED FRAME VARIABLE SPEED ALTERNATING CURRENT MOTOR
RL & URL3203Z

619691-001

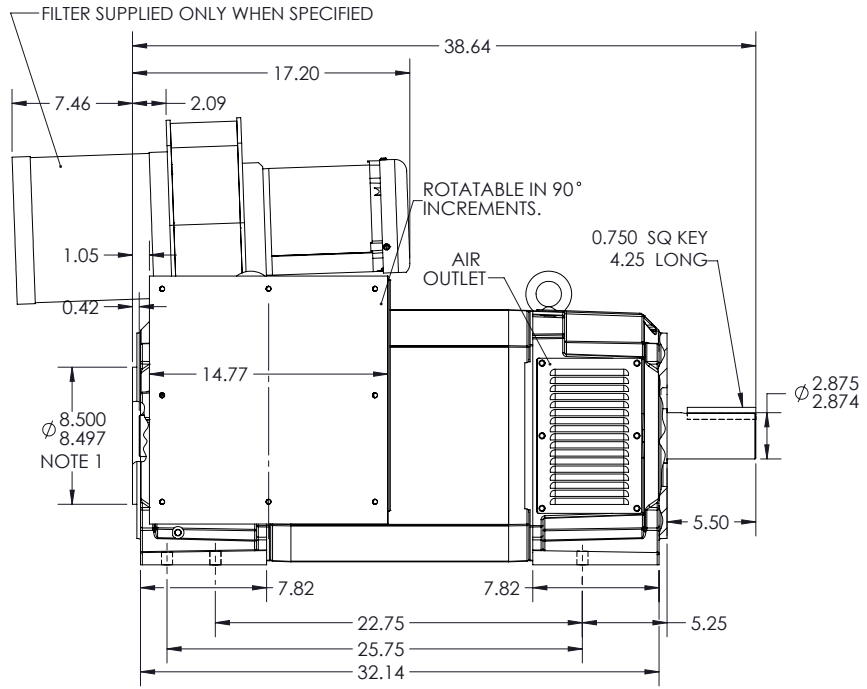
ENCLOSURE: DRIP PROOF

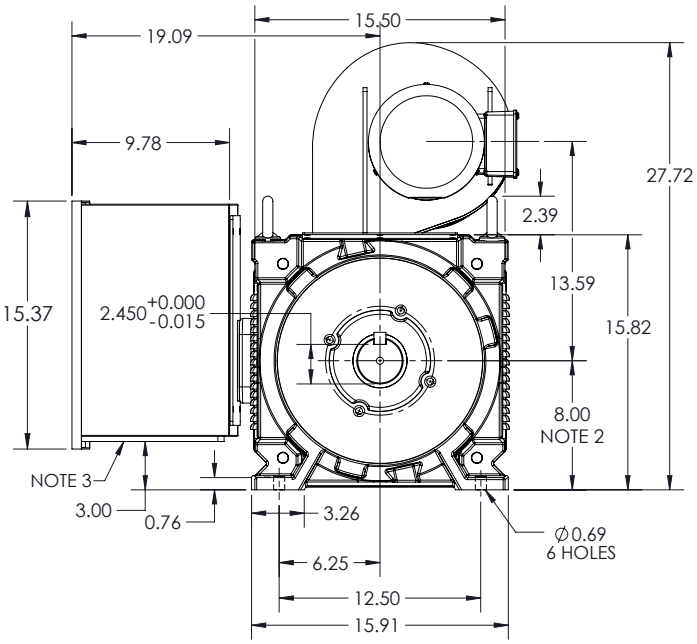
MOUNTING: FOOT

DRIVE METHOD: COUPLED OR BELTED

COOLING: FORCE VENTILATED

ACCESSORIES: PROVISIONS FOR TACHOMETER MOUNTING ONLY WHEN SPECIFIED





NOTE S:

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 616779-51 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: 1320 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

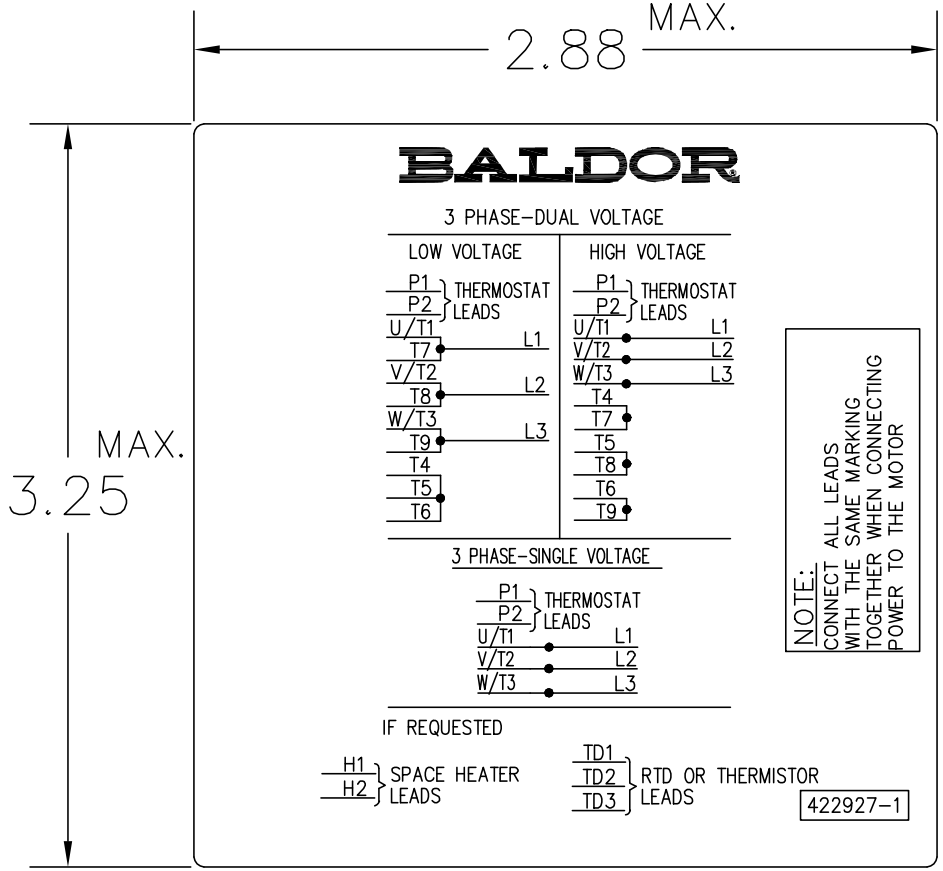
REV. DESC: ADD "URL" TO FRAME SIZE			
REV: C	VERSION: 03	REVISED: 01:47:22 04/06/2016	TDR: 000000973515
MODEL NO. 619691-001			REF: -
BY: RGGWT			B

BALDOR

DIM SHT,RL & URL3203Z,FOOTED,RPM-AC,DP FV

100-169619

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