

ABB BALDOR RELIANCE III

Customer information packet

IDDRPM321506R1

150HP, 1150, 460V, RL3203, DPFV, F1

Specifications

Enclosure	DPFV
Frame	RL3203Z
Frame Material	Exposed Laminations
Frequency	40.00 Hz
Output @ Frequency	150.000 HP @ 40 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 40 HZ
Voltage @ Frequency	460.0 V @ 40 HZ
Agency Approvals	CCSA US
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	180.000 A @ 460.0 V
Duty Rating	CONT
Feedback Device	NO FEEDBACK
Frame Prefix	RL
Heater Indicator	No Heater
High Voltage Full Load Amps	180.0 a
Insulation Class	H
IP Rating	NONE
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	38.64 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	Shaft Grounding
Shaft Rotation	Reversible
Speed	1170 rpm
Thermal Device - Bearing	None

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	L0339A
Layout	619691-001
Eff. date	05-03-2022
CD Diagram	422927-001
Poles	04
Leads	
Proprietary	False
Created date	11-30-2015

Thermal Device - Winding

Normally Closed Thermostat

Nameplate

000613006MY									
	DUTY	HP	RPM	AMPS	VOLTS	HZ			
	CONT	150	1170		180	460	40		
	CONT	150	1600		177	460	55		
	CONT	75	3600		90	460	121.7		
CAT.NO.	IDDRPM321506R1			SPEC. NO.	R32-A000-0008				
SER.NO				FR	RL3203Z	INSUL	H		
PH.	3	MAX SAFE SPEED			4000	AMB.	40	MIN. AMB.	-25
DESIGN NO.	L0339A		TYPE		ENCL.	DPG-FV			
S.F.	1.00		D.E. BRG.	85BC02J30X					
ENCL MOD			O.D.E. BRG.	65BC03J30X					

REL S.O.	-	VOLTS	460	ENCLOSURE	DPFV	WYE CONN EQ CKT OHMS PER PHASE		
FRAME	RL3203	AMPS	175.44	MAX SAFE RPM	4000	(AT BASE RATING, 25 °C)		
HP	150	DUTY	CONT	IM (AMPS)	57.23	R1	.0324	X1 .161
BASE SPEED	1170	S.F.	1.0	P.F.@NL/FL	.04/.883	R2	.0270	X2 .157
PHASE/HERTZ	3/40	AMB °C/INSUL	40/H	WK ² (Lb-Ft ²)	21.3			XM 4.79

RATED FULL LOAD DATA

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
BASE SPEED	1168	150	674	460	40	176
MAX SPEED	3599	75.0	109	460	121.7	88.0
MIN SPEED	0	0	674	18.2	1.060	176

LOAD PERFORMANCE AT BASE SPEED

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	1200	0	0	460	40	55.6
1/4	1193	38.6	170	460	40	70.8
1/2	1185	77.1	342	460	40	101
3/4	1176	116	516	460	40	138
FULL LOAD	1168	150	674	460	40	176
O/L	1148	221	1012	460	40	266

REMARKS: TYPICAL DATA
CORRELATED DATA



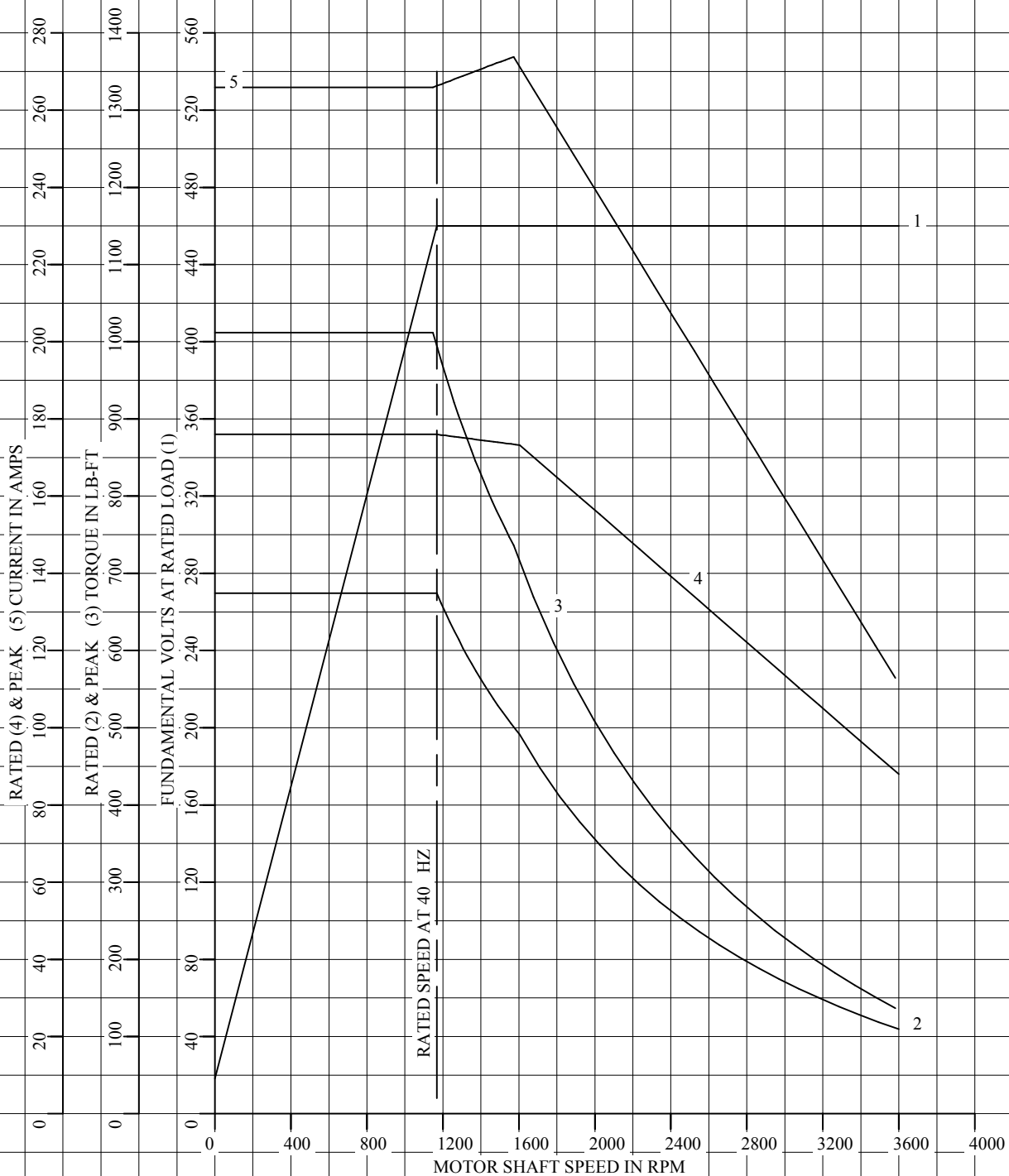
DR. BY	J. MARTIN
CK. BY	J. MARTIN
APP. BY	T. EVON
DATE	11-23-15

**A-C MOTOR
PERFORMANCE DATA** L0339A

ISSUE DATE 02/22/99

REL S.O.	-	VOLTS	460	ENCLOSURE	DPFV	WYE CONN EQ CKT OHMS PER PHASE	
FRAME	RL3203	AMPS	175.44	MAX SAFE RPM	4000	(AT BASE RATING, 25 °C)	
HP	150	DUTY	CONT	IM (AMPS)	57.23	R1 .0324	X1 .161
BASE SPEED	1170	S.F.	1.0	P.F. @NL/FL	.04/.883	R2 .0270	X2 .157
PHASE/HERTZ	3/40	AMB °C/INSUL	40/H	WK ² (Lb-Ft ²)	21.3	XM 4.79	

CORRELATED DATA
VARIABLE SPEED AC MOTOR CURVES



REMARKS: TYPICAL DATA
DATA VALID FOR NAMEPLATE SPEED RANGE ONLY

BALDOR
A MEMBER OF THE ABB GROUP

DR. BY J. MARTIN
CK. BY J. MARTIN
APP. BY T. EVON
DATE 11-23-15

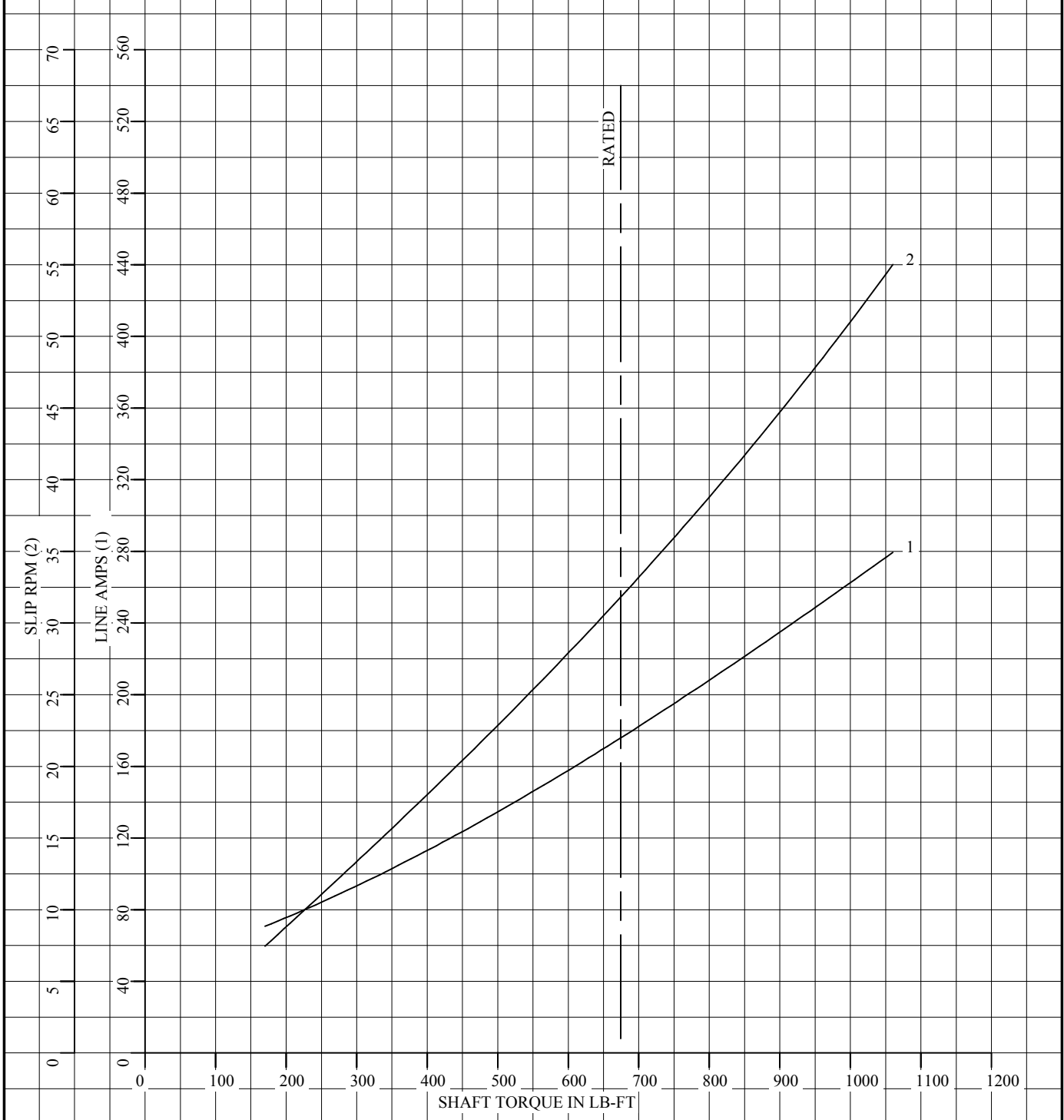
**A-C MOTOR
PERFORMANCE
CURVES**

L0339A
SH 1 OF 2
ISSUE DATE 02/22/99 Page 6 of 9

REL S.O.	-	VOLTS	460	ENCLOSURE	DPFV	WYE CONN EQ CKT OHMS PER PHASE	
FRAME	RL3203	AMPS	175.44	MAX SAFE RPM	4000	(AT BASE RATING, 25 °C)	
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PHASE/HERTZ	3/40	AMB °C/INSUL	40/H	WK ² (Lb-Ft ²)	21.3	XM 4.79	

CORRELATED DATA

LOAD PERFORMANCE (CONSTANT V/HZ RANGE)



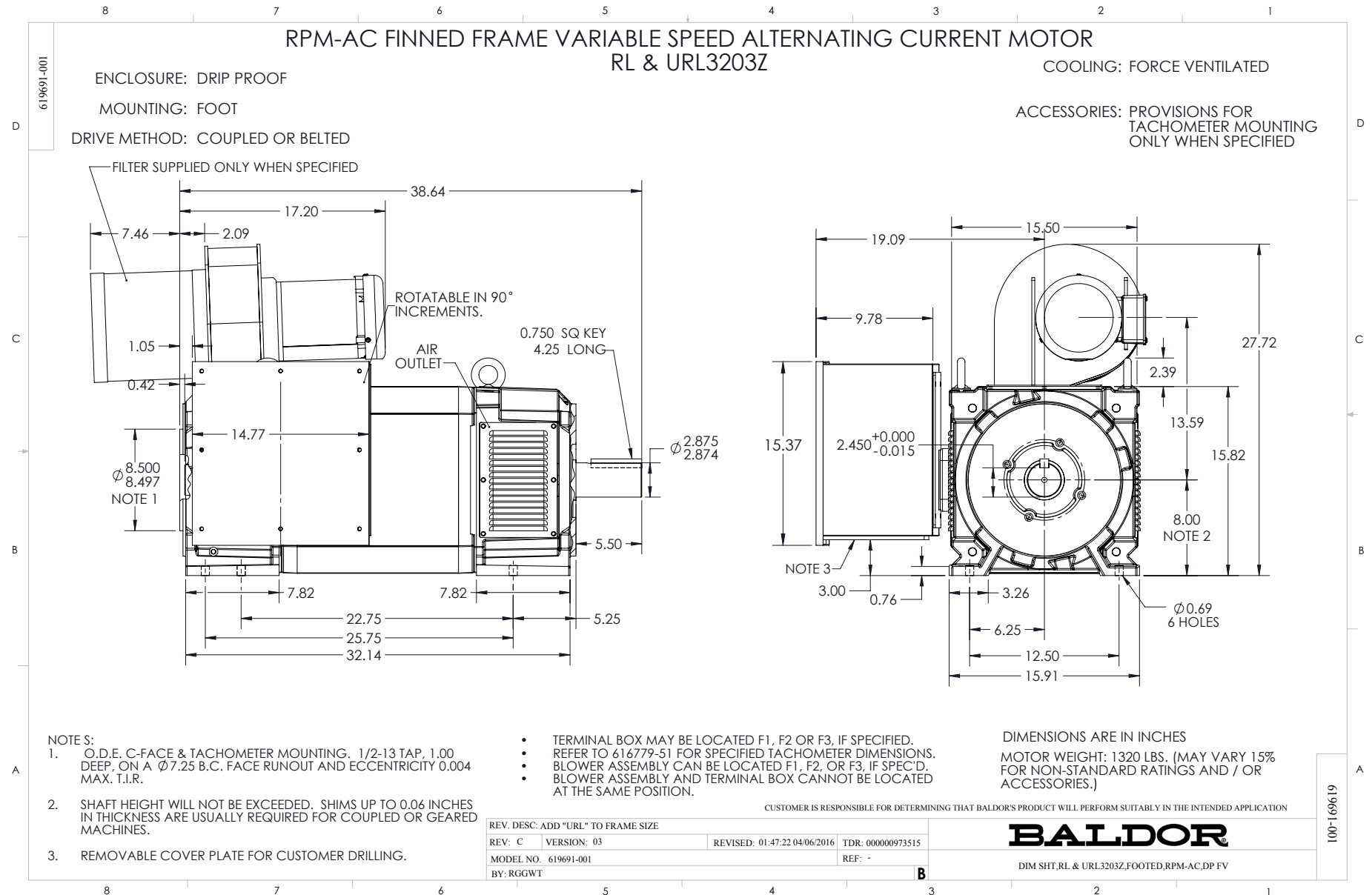
REMARKS: TYPICAL DATA
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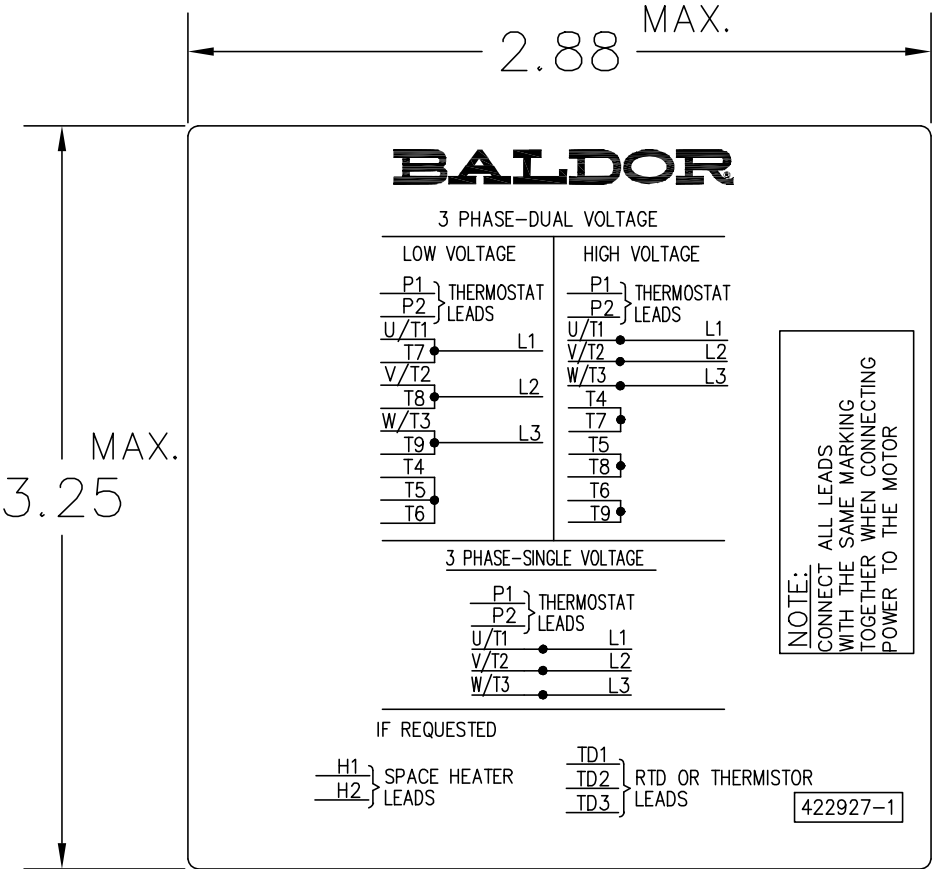
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**A-C MOTOR
PERFORMANCE
CURVES**

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SH 2 OF 2
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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