

ABB BALDOR RELIANCE III

Customer information packet

IDDRPM405006

500HP, 1150, 460V, RL4058, DPFV, F1

Specifications

Enclosure	DPFV
Frame	RL4058Z
Frame Material	Exposed Laminations
Frequency	39.00 Hz
Output @ Frequency	500.000 HP @ 39 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 39 HZ
Voltage @ Frequency	460.0 V @ 39 HZ
Agency Approvals	CCSA US
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	567.000 A @ 460.0 V
Duty Rating	CONT
Feedback Device	ENCODER
Frame Prefix	RL
Heater Indicator	No Heater
High Voltage Full Load Amps	567.0 a
Insulation Class	H
IP Rating	NONE
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	54.62 IN
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.00
Shaft Diameter	3.624 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Speed	1150 rpm
Starting Method	Full Voltage

Part Detail

Revision	A
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	L8012A
Layout	619660-001
Eff. date	01-19-2022
CD Diagram	422927-001
Poles	04
Leads	
Proprietary	False
Created date	07-29-2021

Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat

Nameplate

000613006MY									
	DUTY	HP	RPM	AMPS	VOLTS	HZ			
	CONT	500	1150		567	460		39	
	CONT	500	1800		557	460		61.1	
CAT.NO.	IDDRPM405006			SPEC. NO.	R40-A000-0237				
SER.NO				FR	RL4058Z	INSUL	H		
PH.	3	MAX SAFE SPEED			3750	AMB.	40	MIN. AMB.	-25
DESIGN NO.	L8012A		TYPE			ENCL.	DPG-FV		
S.F.	1.00			D.E. BRG.		95BC02J30X			
ENCL MOD				O.D.E. BRG.		6316/C3VL0241			
	IP23								

FRAME	RL4058	AMPS	567	MAX SAFE SPEED	3750		
HP	500	DUTY	CONT	IM (AMPS)	170	R1 .00740	X1 .0473
BASE SPEED	1150	S.F.	1.0	P.F. @NL / FL	.035/.891	R2 .00566	X2 .0519
PHASE/HZ	3/39	AMB.°C / INSUL	40/H	WK ² (Lb-Ft ²)	100		XM 1.60

RATED FULL LOAD DATA

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
BASE SPEED	1150	500	2284	460	39	567
MAX SPEED	1800	500	1459	460	61.1	557
MIN SPEED	0	0	2284	12.6	.675	567

LOAD PERFORMANCE AT BASE SPEED

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	1170	0	0	460	39	167
1/4	1165	125	565	460	39	217
1/2	1160	250	1133	460	39	316
3/4	1155	375	1705	460	39	435
FULL LOAD	1150	500	2284	460	39	567
0/L	1123	977	4569	460	39	1177

REMARKS:
TYPICAL DATA



DRAWN BY: C. ETIENNE
 CHECKED BY: B. GRANT
 APPROVED BY: J. MARTIN
 DATE: 5-17-18

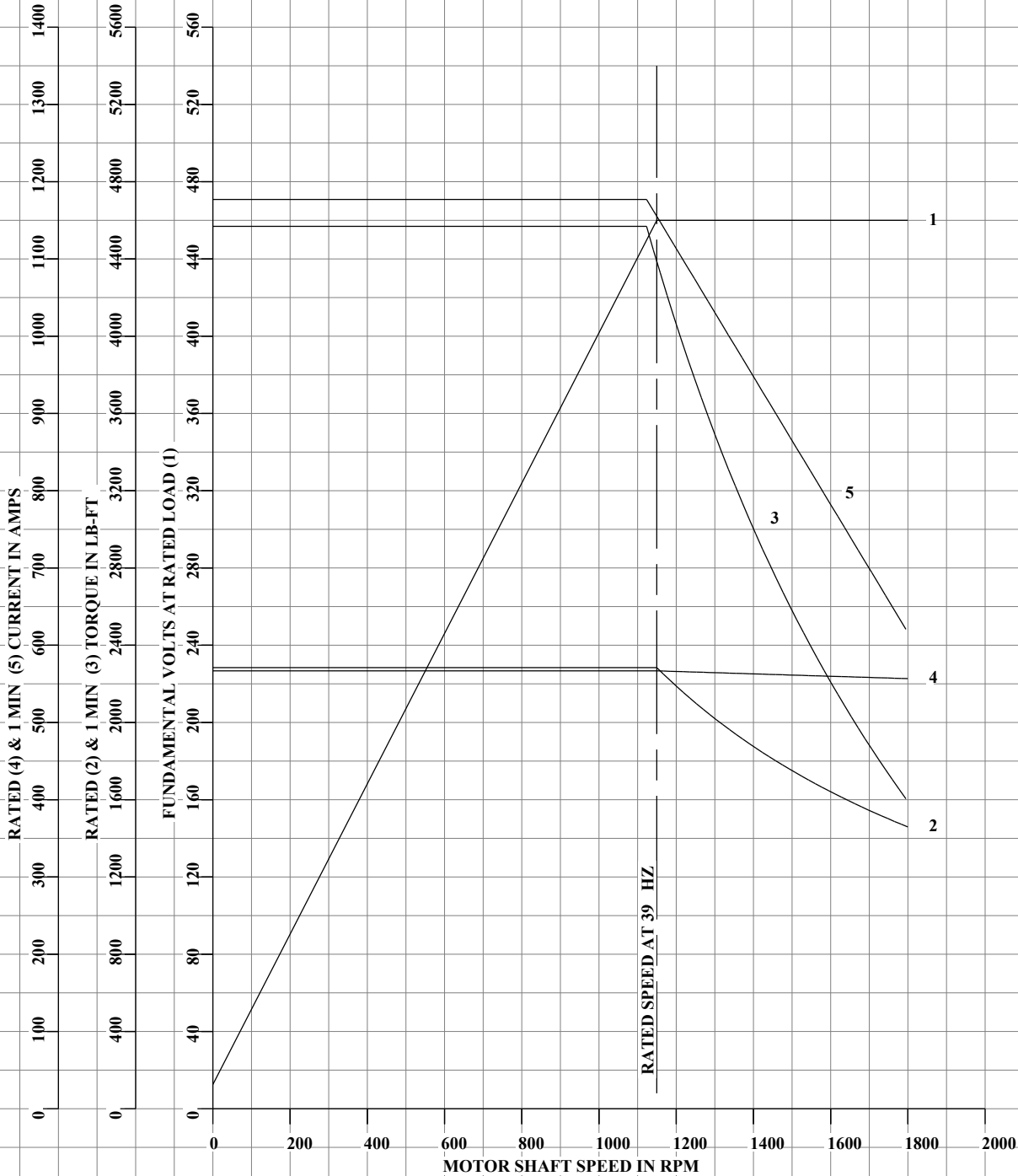
AC MOTOR
PERFORMANCE
DATA

L8012A

ISSUE DATE 5-17-18

FRAME	RL4058	AMPS	567	MAX SAFE SPEED	3750	(AT BASE RATING, 25°C)			
HP	500	DUTY	CONT	IM (AMPS)	170	R1	.00740	X1	.0473
BASE SPEED	1150	S.F.	1.0	P.F. @NL / FL	.035/.891	R2	.00566	X2	.0519
PHASE/HZ	3/39	AMB.°C / INSUL	40/H	WK² (Lb-Ft²)	100			XM	1.60

VARIABLE SPEED AC MOTOR CURVES



TYPICAL DATA
DATA VALID FOR NAMEPLATE SPEED RANGE ONLY



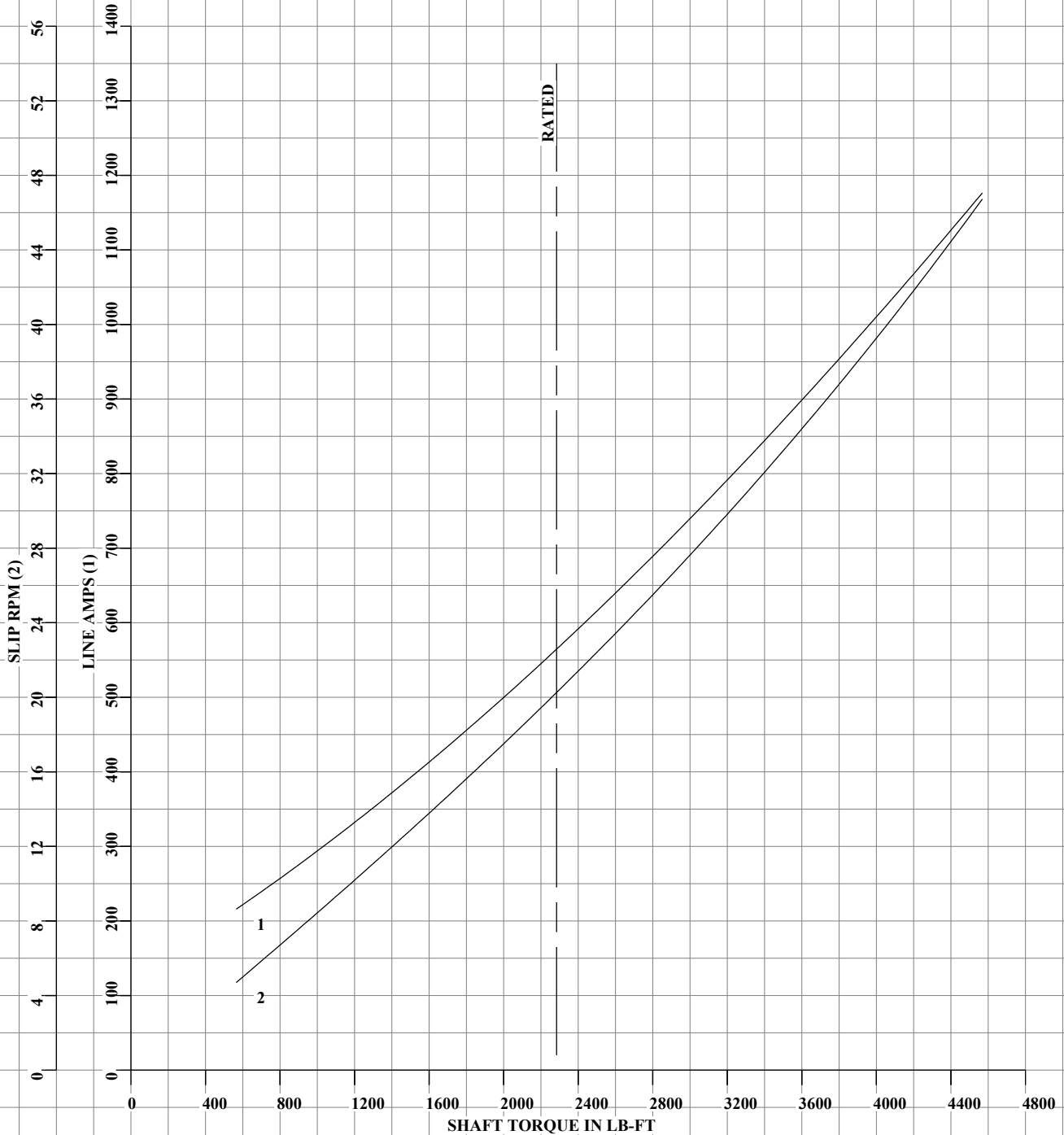
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CHECKED BY: B. GRANT
APPROVED BY: J. MARTIN
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**AC MOTOR
PERFORMANCE
DATA**

L8012A
ISSUE DATE: 5-17-18

FRAME	RL4058	AMPS	567	MAX SAFE SPEED	3750	(AT BASE RATING, 25°C)			
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BASE SPEED	1150	S.F.	1.0	P.F. @NL / FL	.035/.891	R2	.00566	X2	.0519
PHASE/HZ	3/39	AMB.°C / INSUL	40/H	WK² (Lb-Ft²)	100			XM	1.60

LOAD PERFORMANCE (CONSTANT V/HZ RANGE)



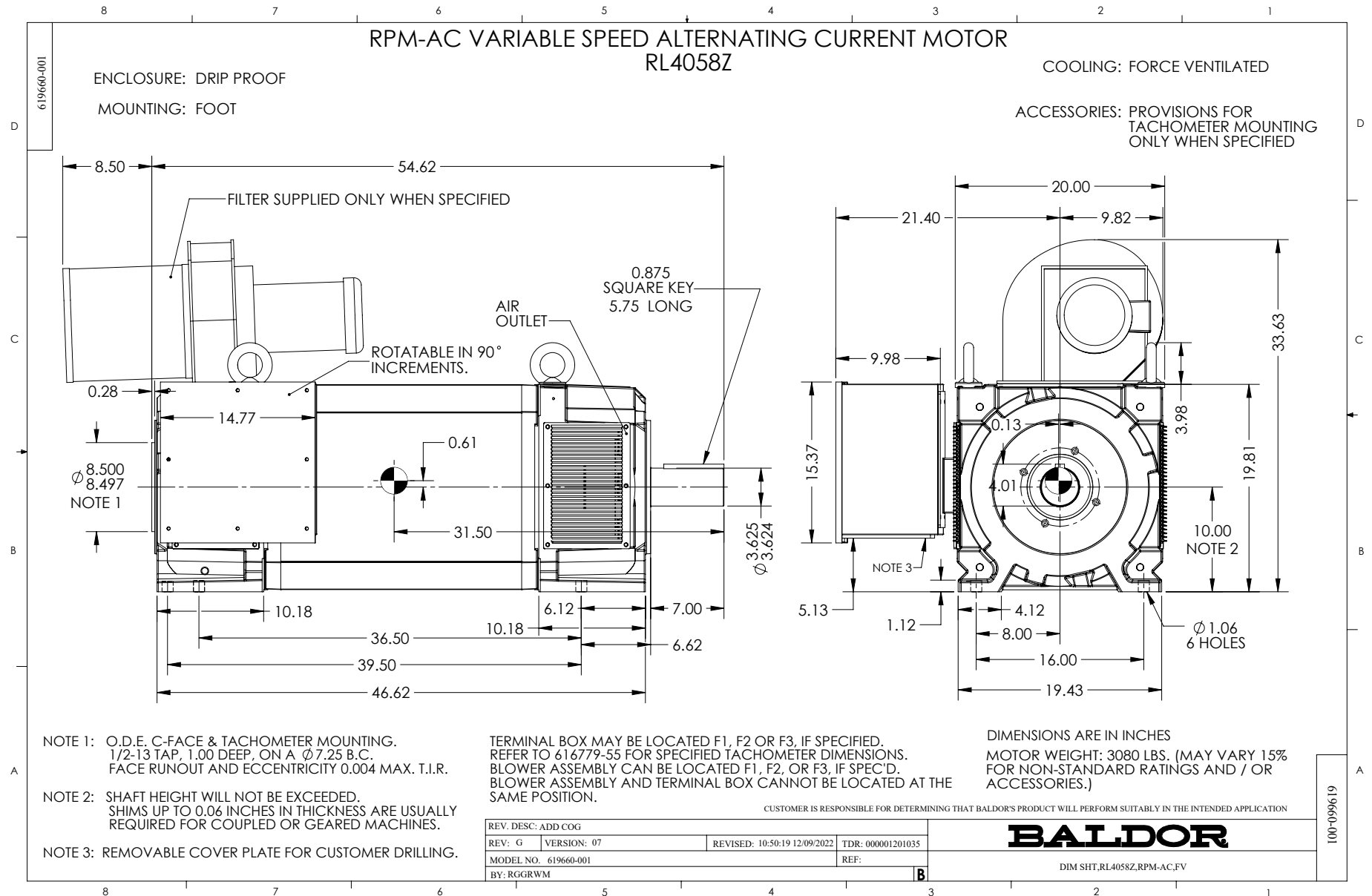
TYPICAL DATA
DATA VALID FOR NAMEPLATE SPEED RANGE ONLY



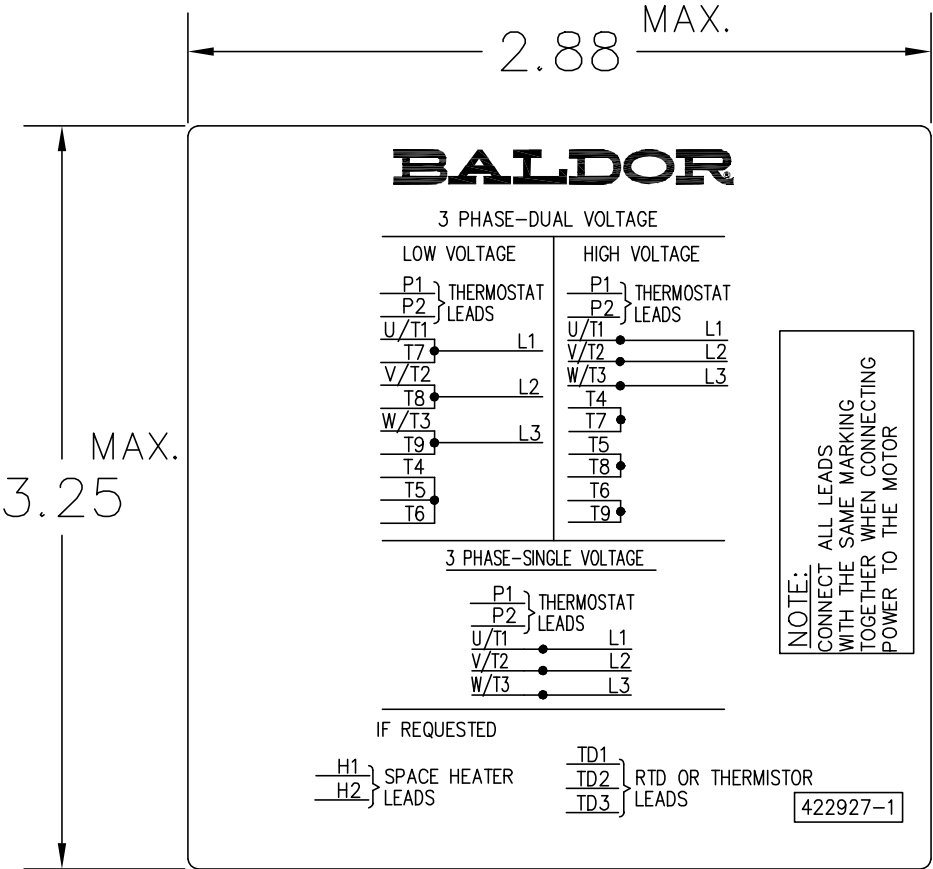
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AC MOTOR
PERFORMANCE
DATA

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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