

ABB BALDOR RELIANCE III

Customer information packet

IDDRPM447006

700HP, 1150, 460V, RL4473, DPFV, F1

Specifications

Enclosure	DPFV
Frame	RL4473Z
Frame Material	Exposed Laminations
Frequency	60.00 Hz
Output @ Frequency	700.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 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	870.000 A @ 460.0 V
Duty Rating	CONT
Feedback Device	ENCODER
Frame Prefix	RL
Heater Indicator	No Heater
High Voltage Full Load Amps	870.0 a
Insulation Class	H
IP Rating	NONE
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	67.64 IN
Product Family	General Industrial
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	1190 rpm
Starting Method	Full Voltage

Part Detail

Revision	A
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	L7057A
Layout	617603-001
Eff. date	01-19-2022
CD Diagram	422927-001
Poles	06
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	700	1190		870	460	60		
	CONT	700	2175		854	460	110		
CAT.NO.	IDDRPM447006			SPEC. NO.	R44-A000-0179				
SER.NO			FR	RL4473Z	INSUL	H			
PH.	3	MAX SAFE SPEED			2700	AMB.	40	MIN. AMB.	-25
DESIGN NO.	L7057A		TYPE		ENCL.	DPG-FV			
S.F.	1.00			D.E. BRG.	110BC02J30X				
ENCL MOD				O.D.E. BRG.	6222/C3VL0241				
	IP23								

REL S.O.	-	VOLTS	460	ENCLOSURE	DPFV	WYE CONN EQ CKT OHMS PER PHASE		
FRAME	RL4473	AMPS	870	MAX SAFE RPM	2700	(AT BASE RATING, 25 °C)		
HP	700	DUTY	CONT	IM (AMPS)	385	R1	.00262	X1 .0312
BASE SPEED	1190	S.F.	1.0	P.F.@NL/FL	.021/.798	R2	.00239	X2 .0476
PHASE/HERTZ	3/60	AMB °C/INSUL	40/H	WK ² (Lb-Ft ²)	230			XM .689

RATED FULL LOAD DATA

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
BASE SPEED	1188	700	3096	460	60	870
MAX SPEED	2173	701	1692	460	110	854
MIN SPEED	0	0	3096	6.64	.623	870

LOAD PERFORMANCE AT BASE SPEED

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	1200	0	0	460	60	384
1/4	1197	175	769	460	60	432
1/2	1194	351	1542	460	60	548
3/4	1191	525	2314	460	60	698
FULL LOAD	1188	700	3096	460	60	870
O/L	1180	1044	4644	460	60	1252

REMARKS: TYPICAL DATA
CORRELATED DATA

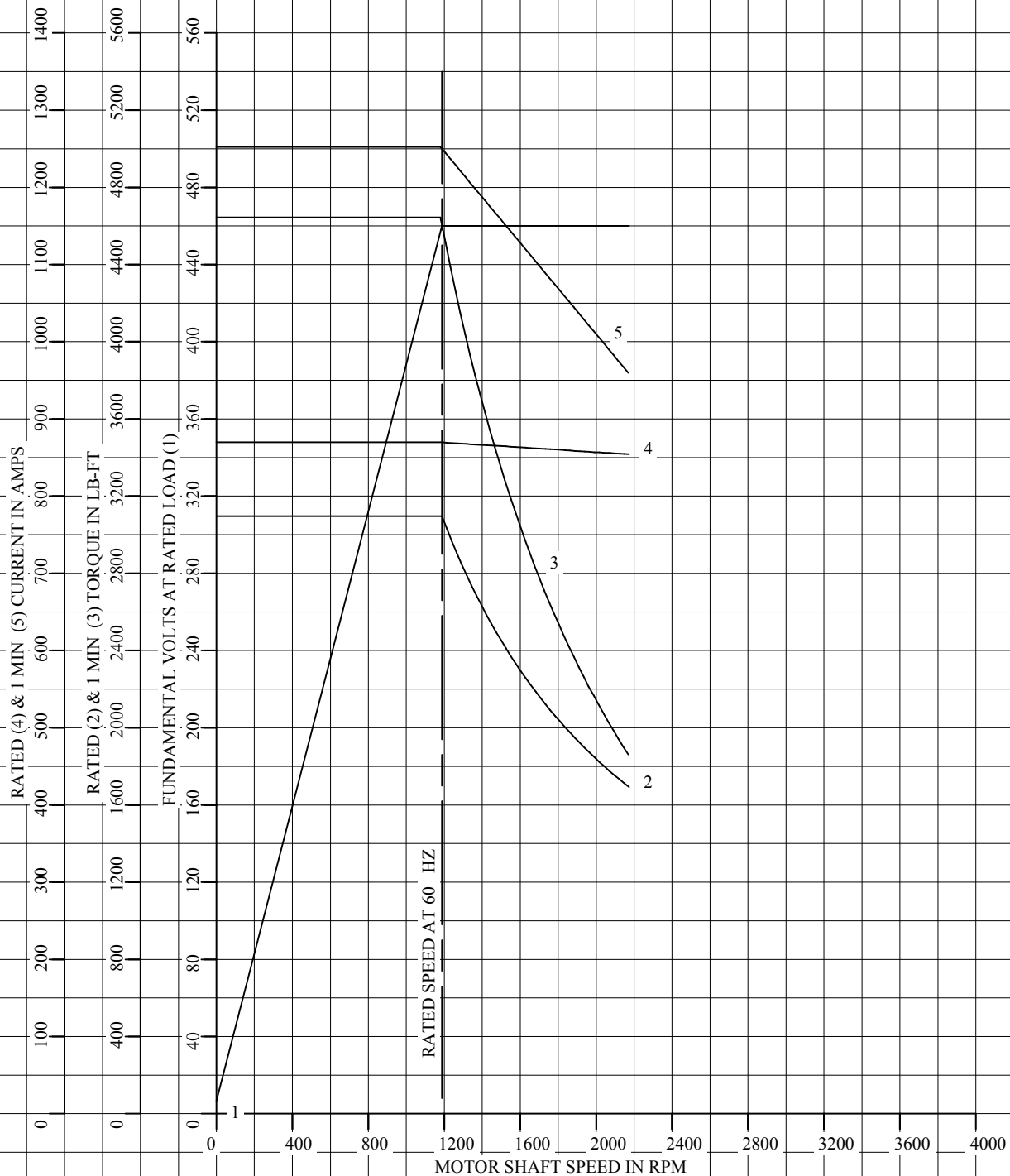


DR. BY R. ROBERTS
CK. BY B. GRANT
APP. BY J. MARTIN
DATE 6-3-16

**A-C MOTOR
PERFORMANCE DATA** L7057A
ISSUE DATE 6-3-16

REL S.O.	-	VOLTS	460	ENCLOSURE	DPFV	WYE CONN EQ CKT OHMS PER PHASE	
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PHASE/HERTZ	3/60	AMB °C/INSUL	40/H	WK ² (Lb-Ft ²)	230	XM .689	

CORRELATED DATA
VARIABLE SPEED AC MOTOR CURVES



REMARKS: TYPICAL DATA
DATA VALID FOR NAMEPLATE SPEED RANGE ONLY

BALDOR
A MEMBER OF THE ABB GROUP

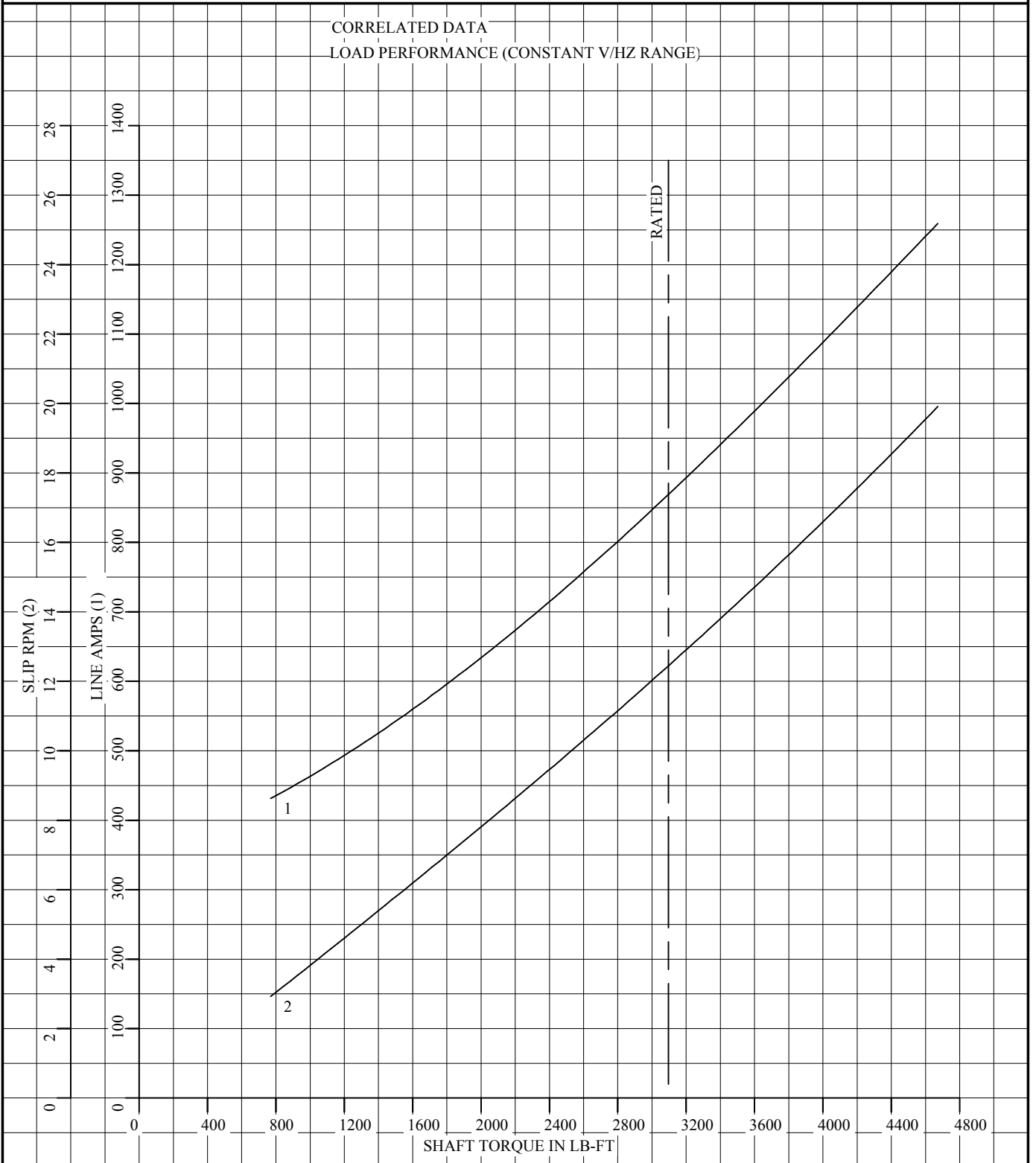
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CK. BY B. GRANT
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DATE 6-3-16

**A-C MOTOR
PERFORMANCE
CURVES**

L7057A
SH 1 OF 2
ISSUE DATE 6-3-16

REL S.O.	-	VOLTS	460	ENCLOSURE	DPFV	WYE CONN EQ CKT OHMS PER PHASE	
FRAME	RL4473	AMPS	870	MAX SAFE RPM	2700	(AT BASE RATING, 25 °C)	
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PHASE/HERTZ	3/60	AMB °C/INSUL	40/H	WK ² (Lb-Ft ²)	230	XM .689	

CORRELATED DATA
LOAD PERFORMANCE (CONSTANT V/HZ RANGE)



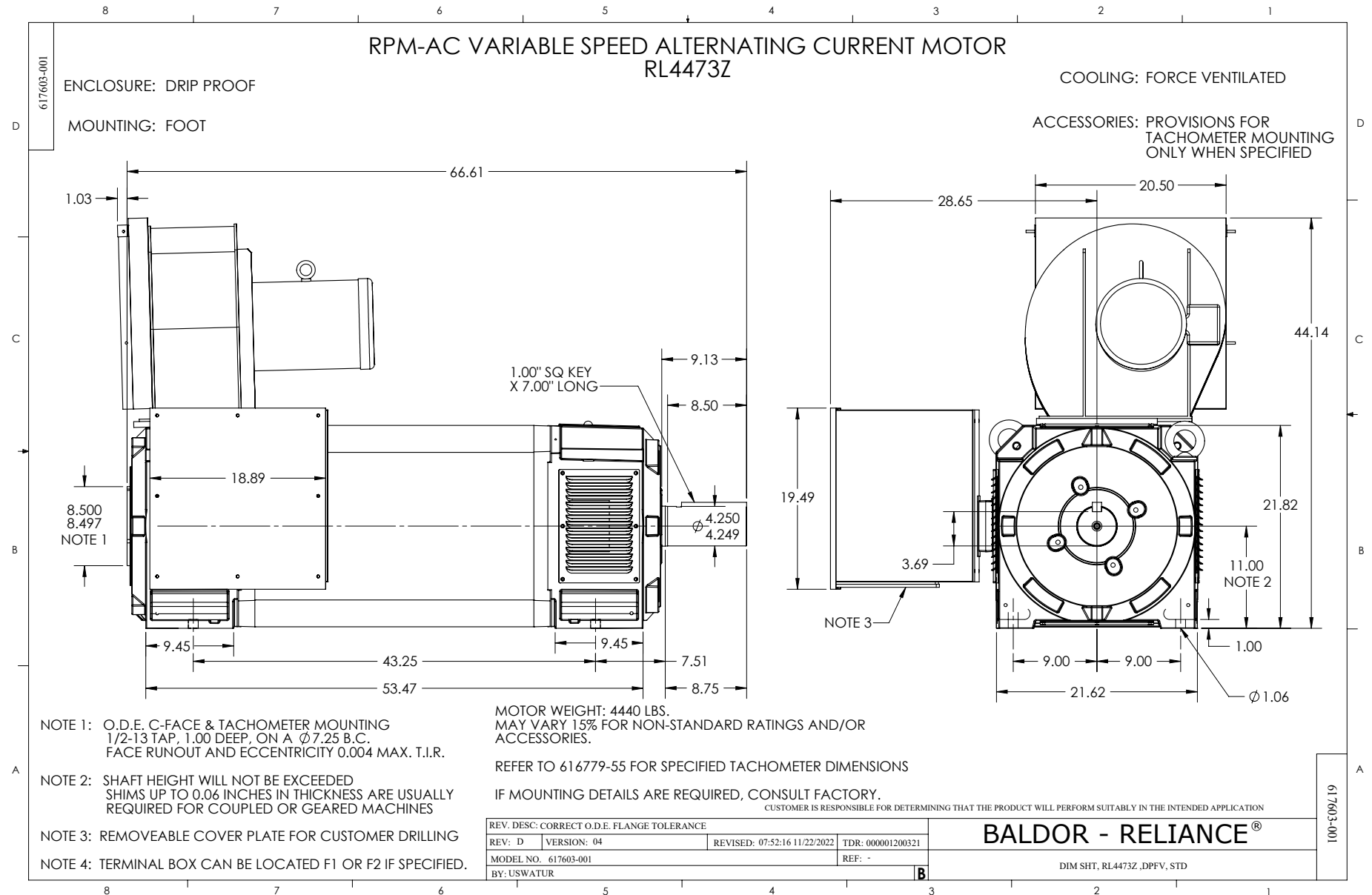
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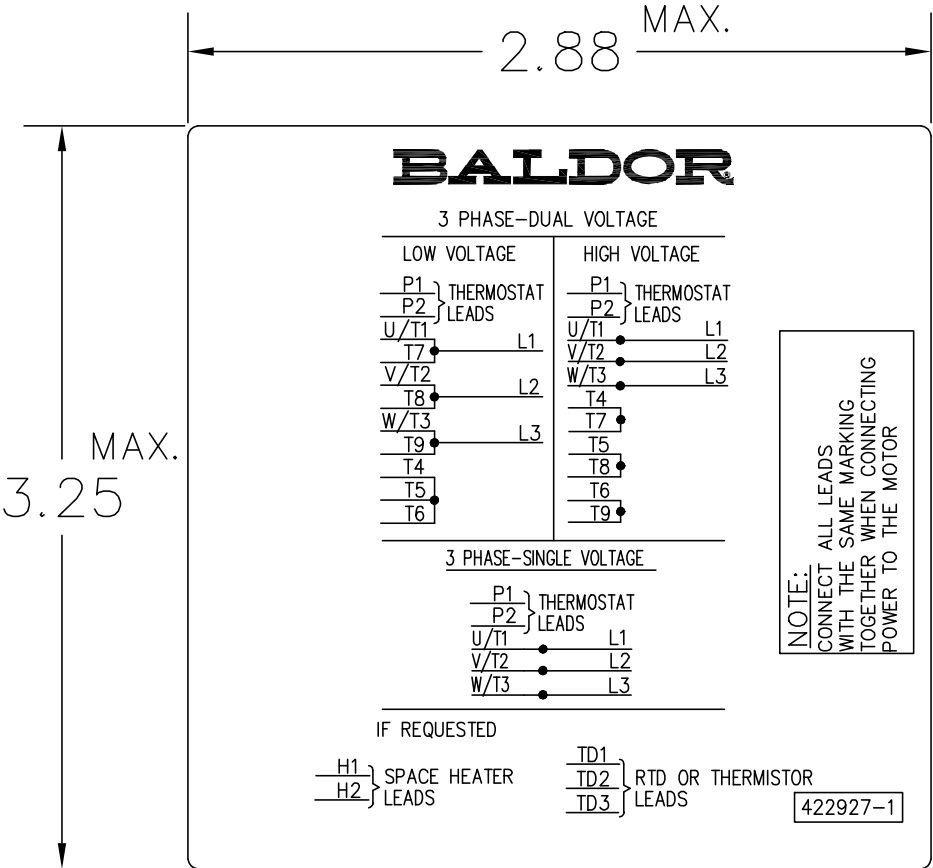
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**A-C MOTOR
PERFORMANCE
CURVES**

L7057A
SH 2 OF 2
ISSUE DATE 6-3-16 Page 7 of 9



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