

# **ABB BALDOR RELIANCE III**

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## **Customer information packet** IDBRPM362504R1

250HP, 1785/3565RPM, 460V, 3PH, TEBC, FL3614

**Specifications**

<b>Enclosure</b>	TEAO
<b>Frame</b>	FL3614
<b>Frame Material</b>	Exposed Laminations
<b>Frequency</b>	60.00 Hz
<b>Output @ Frequency</b>	250.000 @ 60 HZ 250.000 HP @ 60 HZ
<b>Phase</b>	3
<b>Synchronous Speed @ Frequency</b>	1800 RPM @ 60 HZ
<b>Voltage @ Frequency</b>	460.0 V @ 60 HZ 460 V @ 60 HZ
<b>Auxiliary Box</b>	NO AUXILLARY BOX
<b>Base Indicator</b>	Rigid
<b>Bearing Grease Type</b>	Polyrex EM (-20F +300F)
<b>Current @ Voltage</b>	286.000 A @ 460.0 V
<b>Duty Rating</b>	CONT
<b>Feedback Device</b>	NO FEEDBACK
<b>Frame Prefix</b>	FL
<b>Heater Indicator</b>	No Heater
<b>High Voltage Full Load Amps</b>	286.0 a
<b>Insulation Class</b>	H
<b>Motor Standards</b>	NEMA
<b>Mounting Arrangement</b>	F3
<b>Overall Length</b>	60.05 IN
<b>Product Family</b>	General Industrial
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	C-Face
<b>Service Factor</b>	1.00
<b>Shaft Diameter</b>	2.874 IN
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Speed</b>	1785 rpm
<b>Thermal Device - Bearing</b>	None

**Part Detail**

<b>Revision</b>	G
<b>Type</b>	AC
<b>Mech. spec.</b>	
<b>Base</b>	
<b>Status</b>	PRD/A
<b>Elec. spec.</b>	L5924A
<b>Layout</b>	619682-001
<b>Eff. date</b>	05-03-2022
<b>CD Diagram</b>	422927-001
<b>Poles</b>	04
<b>Leads</b>	
<b>Proprietary</b>	False
<b>Created date</b>	04-09-2015

**Thermal Device - Winding**

**Normally Closed Thermostat**

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**Nameplate**

**000613006MY**

	<b>DUTY</b>	<b>HP</b>	<b>RPM</b>	<b>AMPS</b>	<b>VOLTS</b>	<b>HZ</b>	
	CONT	250	1785	286	460	60	
	CONT	250	3565	279	460	120	
<b>CAT.NO.</b>	IDBRPM362504R1		<b>SPEC. NO.</b>		P36T1320		
<b>SER.NO</b>		<b>FR</b>	FL 3614	<b>INSUL</b>	H		
<b>PH.</b>	3	<b>MAX SAFE SPEED</b>		3750	<b>AMB.</b>	40	<b>MIN. AMB.</b> -25
<b>DESIGN NO.</b>	L5924A	<b>TYPE</b>			<b>ENCL.</b>	TEAO-BC	
<b>S.F.</b>	1.00		<b>D.E. BRG.</b>		95BC02J30X		
<b>ENCL MOD</b>			<b>O.D.E. BRG.</b>		80BC03J30X		

REL S.O.	-	VOLTS	460	ENCLOSURE	TEBC	WYE CONN EQ CKT OHMS PER PHASE			
FRAME	FL3614	AMPS	286	MAX SAFE RPM	3750	(AT BASE RATING, 25 °C)			
HP	250	DUTY	CONT	IM (AMPS)	101	R1	.00789	X1	.0686
BASE SPEED	1785	S.F.	1.0	P.F. @NL/FL	.036/.869	R2	.00624	X2	.0955
PHASE/HERTZ	3/60	AMB °C/INSUL	40/H	WK <sup>2</sup> (Lb-Ft <sup>2</sup> )	45			XM	2.53

**RATED FULL LOAD DATA**

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
BASE SPEED	1784	250	736	460	60	286
MAX SPEED	3564	250	369	460	120	279
MIN SPEED	0	0	736	6.63	.546	286

**LOAD PERFORMANCE AT BASE SPEED**

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	1800	0	0	460	60	101
1/4	1796	62.6	183	460	60	125
1/2	1792	125	367	460	60	169
3/4	1788	187	551	460	60	225
FULL LOAD	1784	250	736	460	60	286
O/L	1765	495	1472	460	60	554

REMARKS: TYPICAL DATA  
CORRELATED DATA

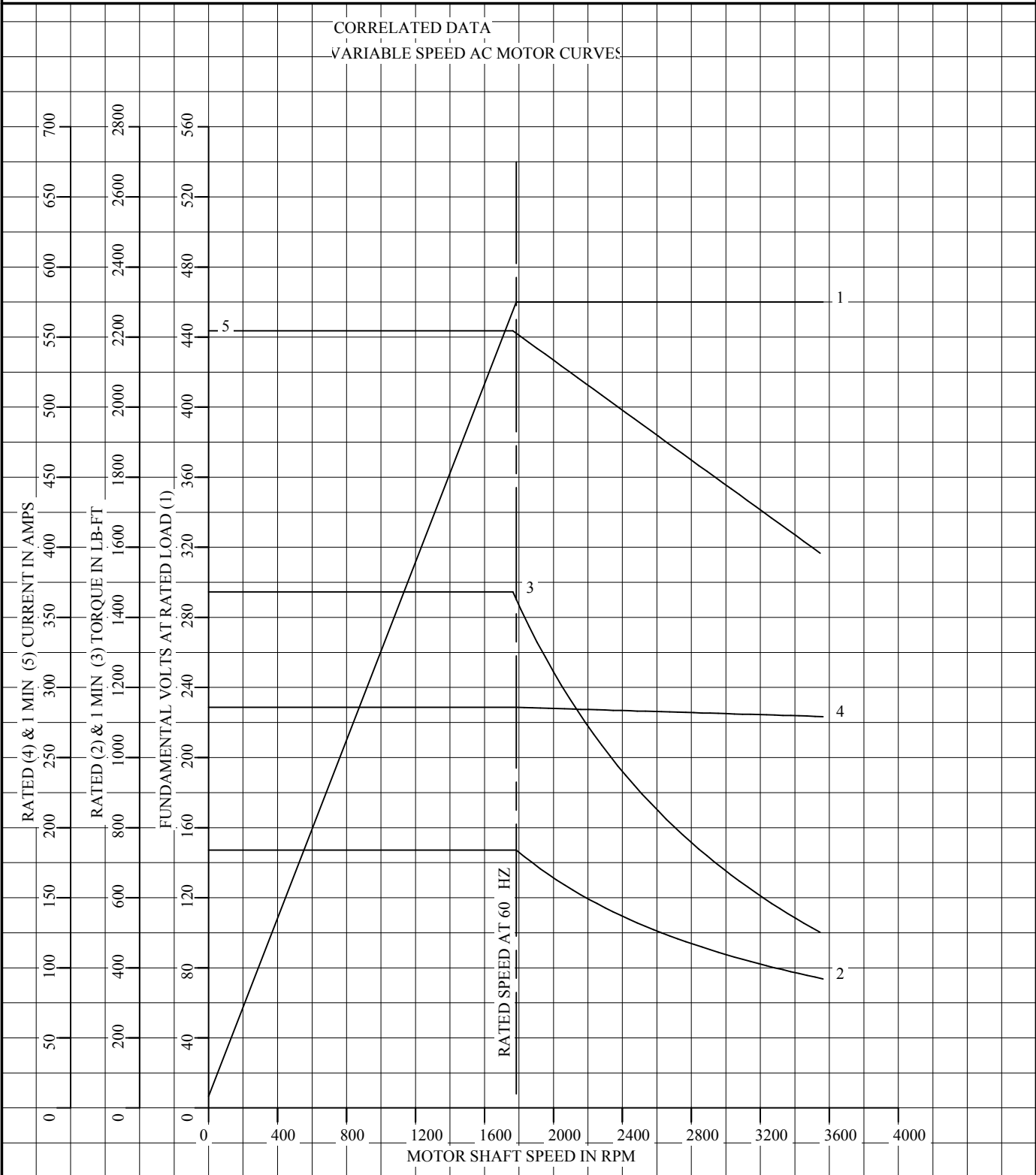


DR. BY B. GRANT  
 CK. BY B. GRANT  
 APP. BY J. MARTIN  
 DATE 8-13-13

**A-C MOTOR  
PERFORMANCE DATA** L5924A  
 ISSUE DATE 9-6-16

REL S.O.	-	VOLTS	460	ENCLOSURE	TEBC	WYE CONN EQ CKT OHMS PER PHASE	
FRAME	FL3614	AMPS	286	MAX SAFE RPM	3750	(AT BASE RATING, 25 °C)	
HP	250	DUTY	CONT	IM (AMPS)	101	R1	.00789 X1 .0686
BASE SPEED	1785	S.F.	1.0	P.F. @NL/FL	.036/.869	R2	.00624 X2 .0955
PHASE/HERTZ	3/60	AMB °C/INSUL	40/H	WK <sup>2</sup> (Lb-Ft <sup>2</sup> )	45		XM 2.53

CORRELATED DATA  
VARIABLE SPEED AC MOTOR CURVES



REMARKS: TYPICAL DATA  
DATA VALID FOR NAMEPLATE SPEED RANGE ONLY



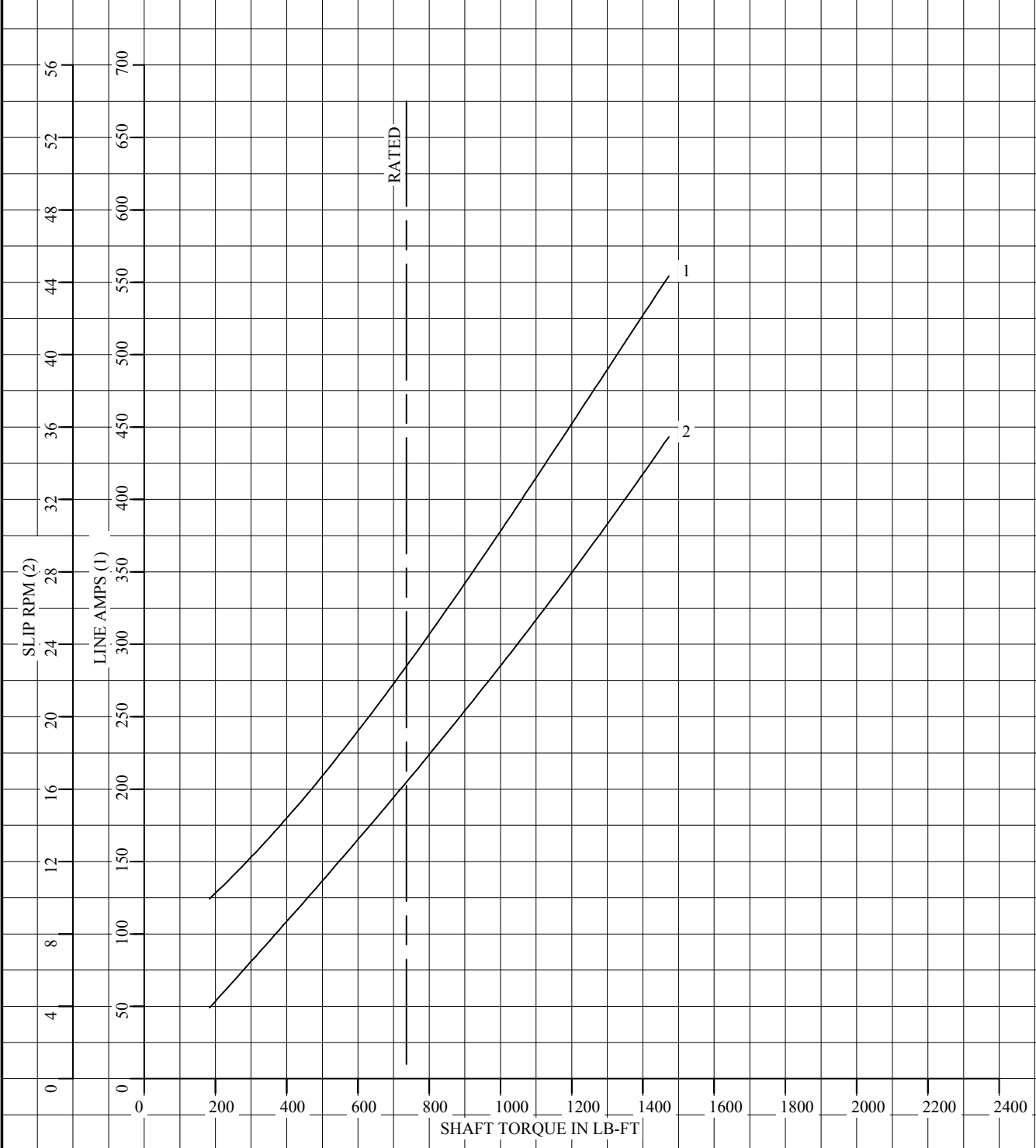
DR. BY B. GRANT  
CK. BY B. GRANT  
APP. BY J. MARTIN  
DATE 8-13-13

**A-C MOTOR  
PERFORMANCE  
CURVES**

L5924A  
SH 1 OF 2  
ISSUE DATE 9-6-16

REL S.O.	-	VOLTS	460	ENCLOSURE	TEBC	WYE CONN EQ CKT OHMS PER PHASE	
FRAME	FL3614	AMPS	286	MAX SAFE RPM	3750	(AT BASE RATING, 25 °C)	
HP	250	DUTY	CONT	IM (AMPS)	101	R1 .00789	X1 .0686
BASE SPEED	1785	S.F.	1.0	P.F. @NL/FL	.036/.869	R2 .00624	X2 .0955
PHASE/HERTZ	3/60	AMB °C/INSUL	40/H	WK <sup>2</sup> (Lb-Ft <sup>2</sup> )	45		XM 2.53

CORRELATED DATA  
LOAD PERFORMANCE (CONSTANT V/HZ RANGE)



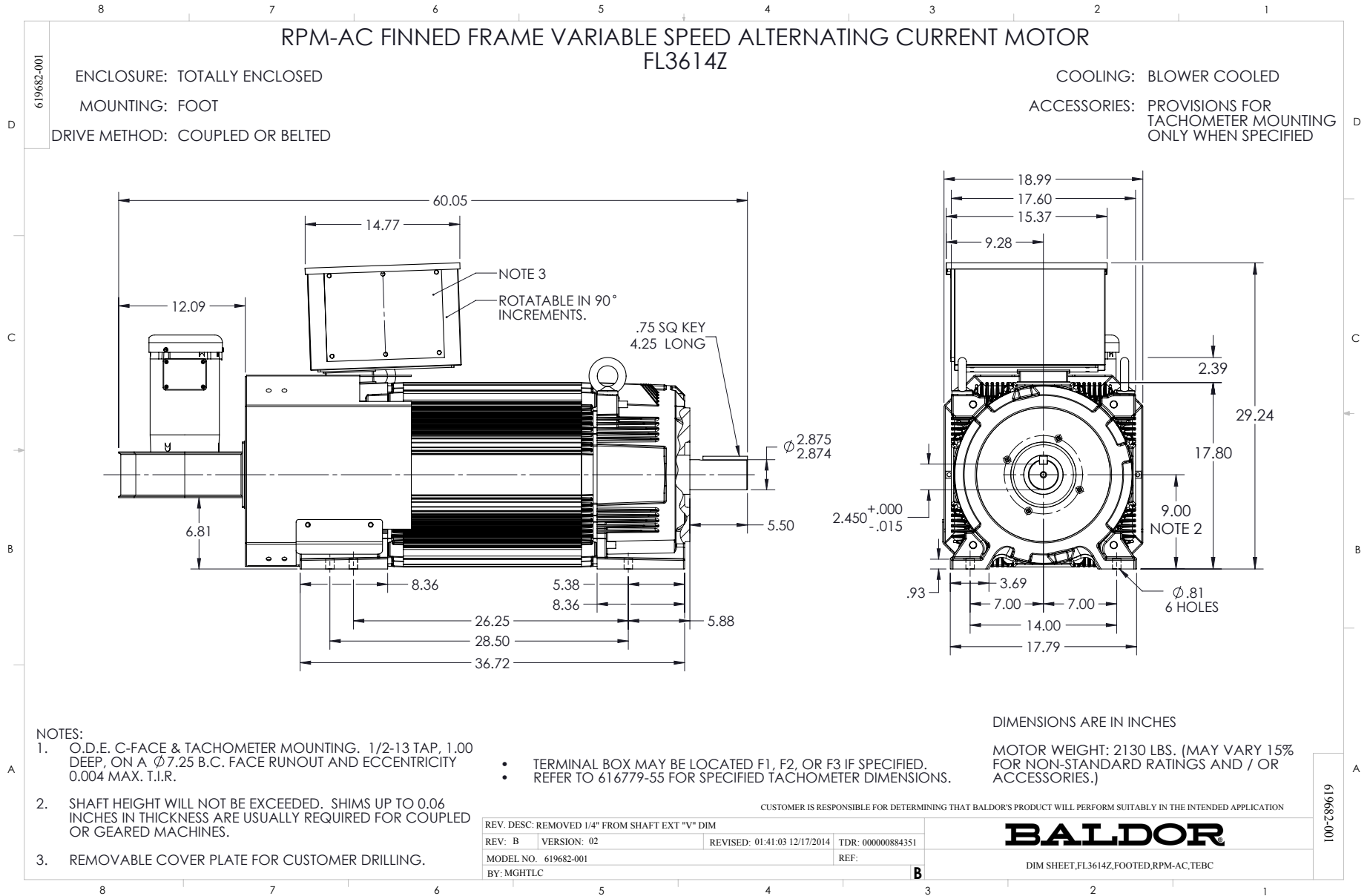
REMARKS: TYPICAL DATA  
DATA VALID FOR NAMEPLATE SPEED RANGE ONLY



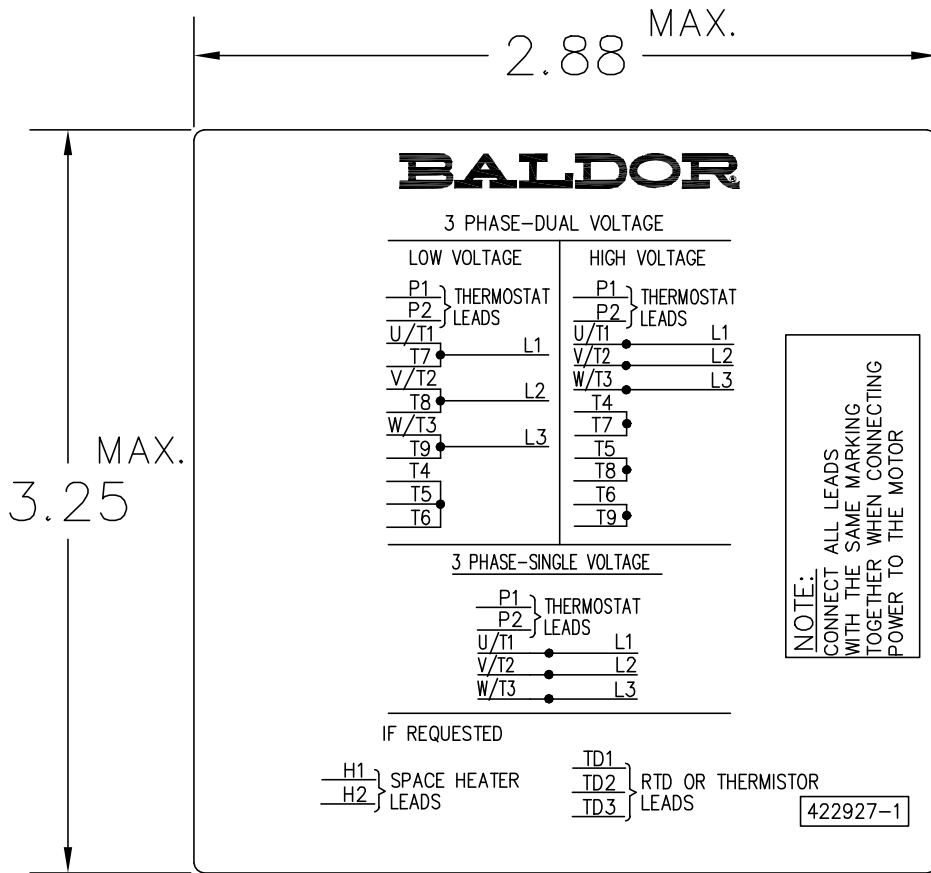
DR. BY B. GRANT  
CK. BY B. GRANT  
APP. BY J. MARTIN  
DATE 8-13-13

**A-C MOTOR  
PERFORMANCE  
CURVES**

**L5924A**  
SH 2 OF 2  
ISSUE DATE 9-6-16



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: 00000788708
FILE: \RGG\00000\203	REVISED: 08:09:29 03/04/2013	
MTL: -	BY: RGGWT	

**BALDOR**

EXTERNAL CONNECTION LABEL

SH 1 of 1