

ABB BALDOR RELIANCE III

Customer information packet

IDDRPM362506R1

250HP, 1170/1810RPM, 460V, 3PH, DPGFV, RL3698

Specifications

Enclosure	DPFV
Frame	RL3698
Frame Material	Exposed Laminations
Frequency	40.00 Hz
Output @ Frequency	250.000 @ 40 HZ 250.000 HP @ 40 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 40 HZ
Voltage @ Frequency	460.0 V @ 40 HZ 460 V @ 40 HZ
Agency Approvals	CCSA US
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	298.000 A @ 460.0 V
Duty Rating	CONT
Enclosure Modification	FORCE VENT
Feedback Device	NO FEEDBACK
Frame Prefix	RL
Heater Indicator	No Heater
High Voltage Full Load Amps	298.0 a
Insulation Class	H
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	39.22 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

Part Detail

Revision	K
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	L6130A
Layout	619680-001
Eff. date	05-03-2022
CD Diagram	422927-001
Poles	04
Leads	
Proprietary	False
Created date	04-09-2015

Speed	1170 rpm
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat

Nameplate

000613006MY									
	DUTY	HP	RPM	AMPS	VOLTS	HZ			
	CONT	250	1170		298	460		40	
	CONT	250	2000		302	460		62	
CAT.NO.	IDDRPM362506R1		SPEC. NO.		P36R1323				
SER.NO			FR	RL 3698	INSUL	H			
PH.	3	MAX SAFE SPEED		3750	AMB.	40	MIN. AMB.	-25	
DESIGN NO.	L6130A	TYPE			ENCL.	DP			
S.F.	1.00		D.E. BRG.		95BC02J30X				
ENCL MOD	FORCE VENT		O.D.E. BRG.		80BC03J30X				

REL S.O.	-	VOLTS	460	ENCLOSURE	DPFV	WYE CONN EQ CKT OHMS PER PHASE		
FRAME	RL3698	AMPS	298	MAX SAFE RPM	3750	(AT BASE RATING, 25 °C)		
HP	250	DUTY	CONT	IM (AMPS)	98	R1	.0191	X1 .122
BASE SPEED	1170	S.F.	1.0	P.F.@NL/FL	.041/.866	R2	.0142	X2 .106
PHASE/HERTZ	3/40	AMB °C/INSUL	40/H	WK ² (Lb-Ft ²)	35.4			XM 2.82

RATED FULL LOAD DATA

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
BASE SPEED	1171	250	1121	460	40	299
MAX SPEED	2002	250	656	460	68.6	301
MIN SPEED	0	0	1121	18.3	.968	299

LOAD PERFORMANCE AT BASE SPEED

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	1200	0	0	460	40	95.5
1/4	1194	62.5	275	460	40	119
1/2	1187	125	554	460	40	168
3/4	1179	187	835	460	40	229
FULL LOAD	1171	250	1121	460	40	299
O/L	1151	369	1682	460	40	457

REMARKS: TYPICAL DATA



DR. BY	K. GREEN
CK. BY	B. GRANT
APP. BY	J. MARTIN
DATE	6-09-2014

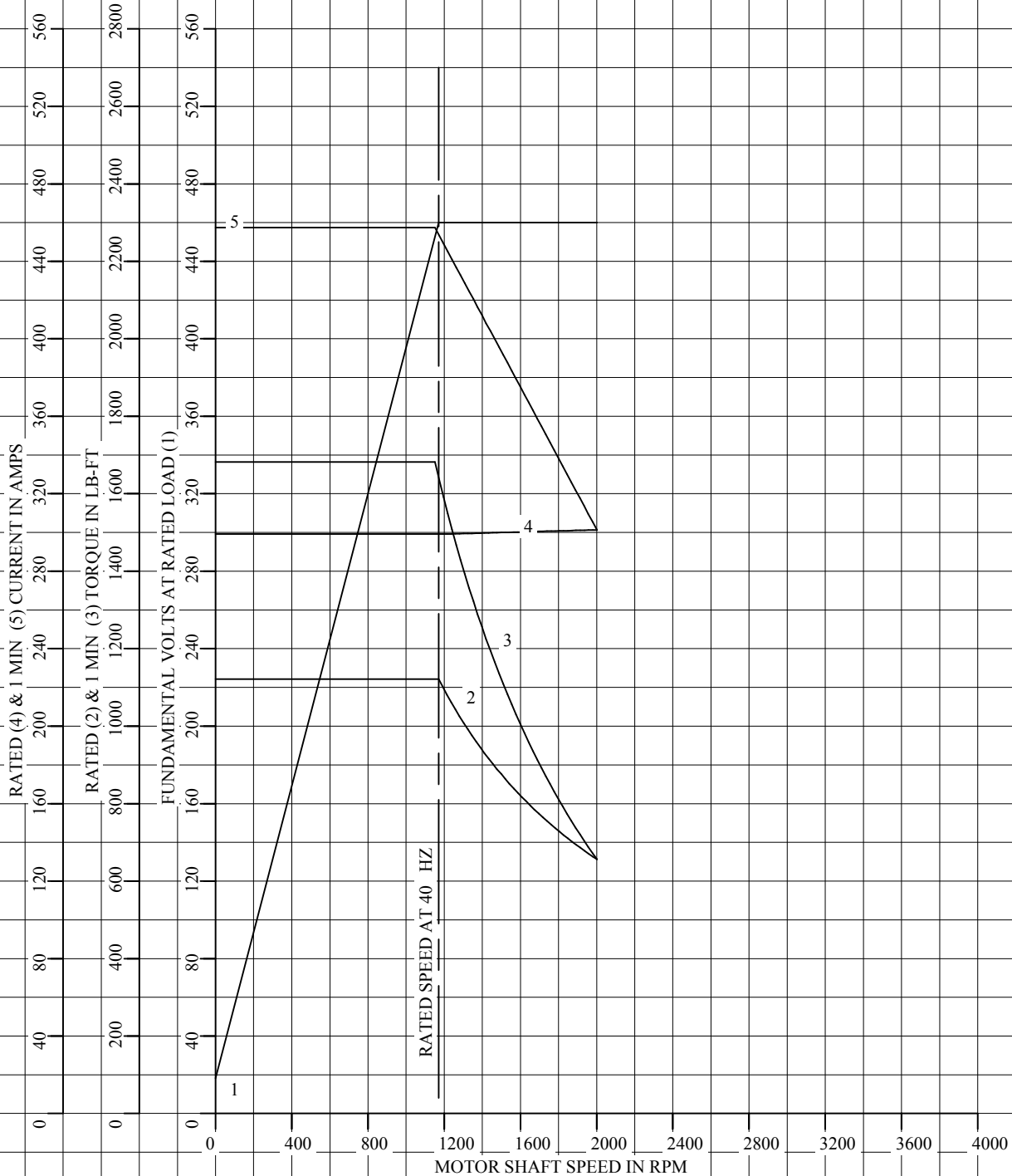
**A-C MOTOR
PERFORMANCE DATA** L6130A

ISSUE DATE 7-14-17

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REL S.O.	-	VOLTS	460	ENCLOSURE	DPFV	WYE CONN	EQ	CKT	OHMS	PER PHASE
FRAME	RL3698	AMPS	298	MAX SAFE RPM	3750	(AT BASE RATING, 25 °C)				
HP	250	DUTY	CONT	IM (AMPS)	98	R1	.0191	X1	.122	
BASE SPEED	1170	S.F.	1.0	P.F. @NL/FL	.041/.866	R2	.0142	X2	.106	
PHASE/HERTZ	3/40	AMB °C/INSUL	40/H	WK ² (Lb-Ft ²)	35.4	XM 2.82				

VARIABLE SPEED AC MOTOR CURVES



REMARKS: TYPICAL DATA
DATA VALID FOR NAMEPLATE SPEED RANGE ONLY



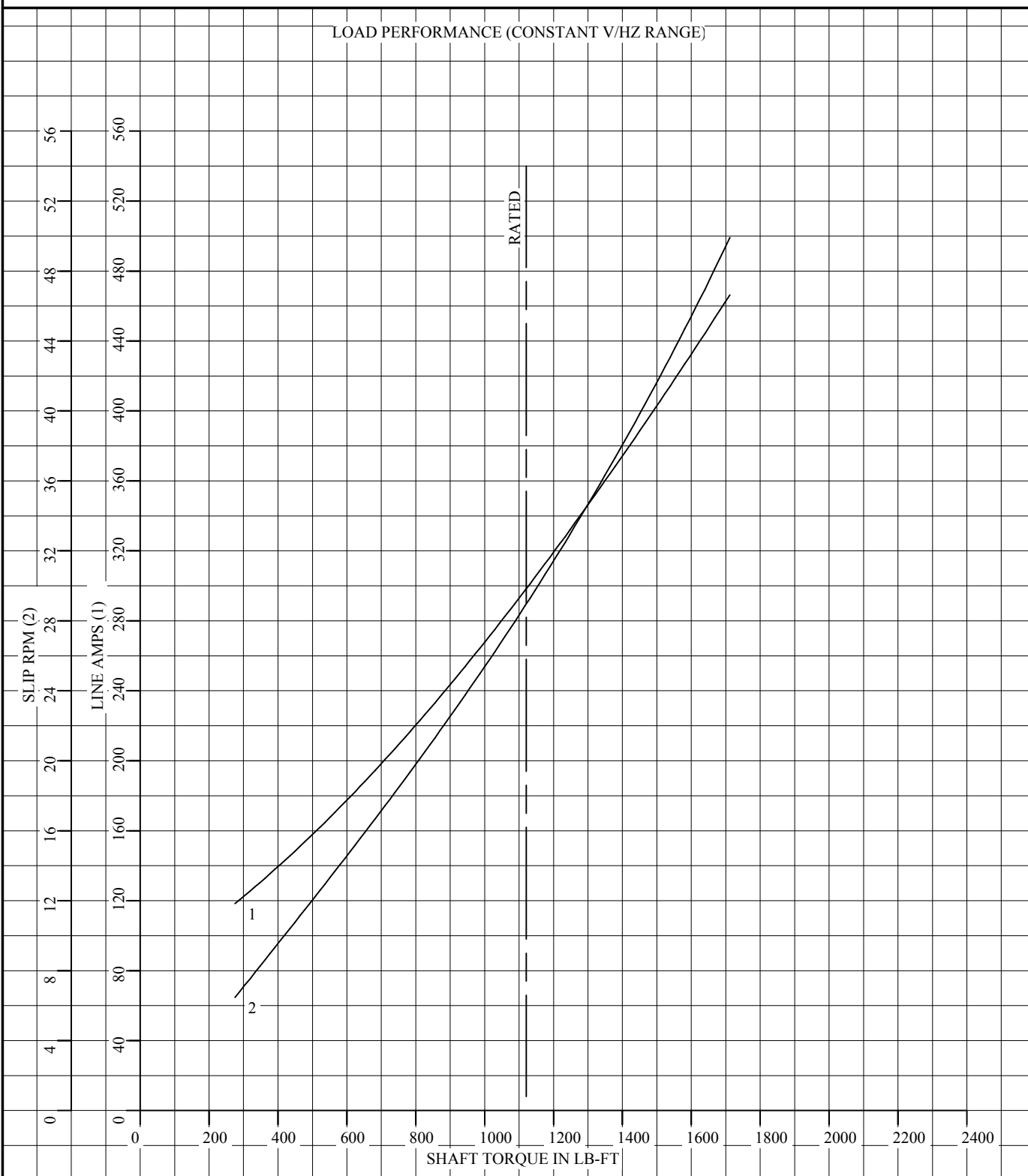
DR. BY K. GREEN
CK. BY B. GRANT
APP. BY J. MARTIN
DATE 6-09-2014

**A-C MOTOR
PERFORMANCE
CURVES**

L6130A
SH 1 OF 2
ISSUE DATE 7-14-17

REL S.O.	-	VOLTS	460	ENCLOSURE	DPFV	WYE CONN EQ CKT OHMS PER PHASE	
FRAME	RL3698	AMPS	298	MAX SAFE RPM	3750	(AT BASE RATING, 25 °C)	
HP	250	DUTY	CONT	IM (AMPS)	98	R1 .0191	X1 .122
BASE SPEED	1170	S.F.	1.0	P.F. @NL/FL	.041/.866	R2 .0142	X2 .106
PHASE/HERTZ	3/40	AMB °C/INSUL	40/H	WK ² (Lb-Ft ²)	35.4	XM 2.82	

LOAD PERFORMANCE (CONSTANT V/HZ RANGE)



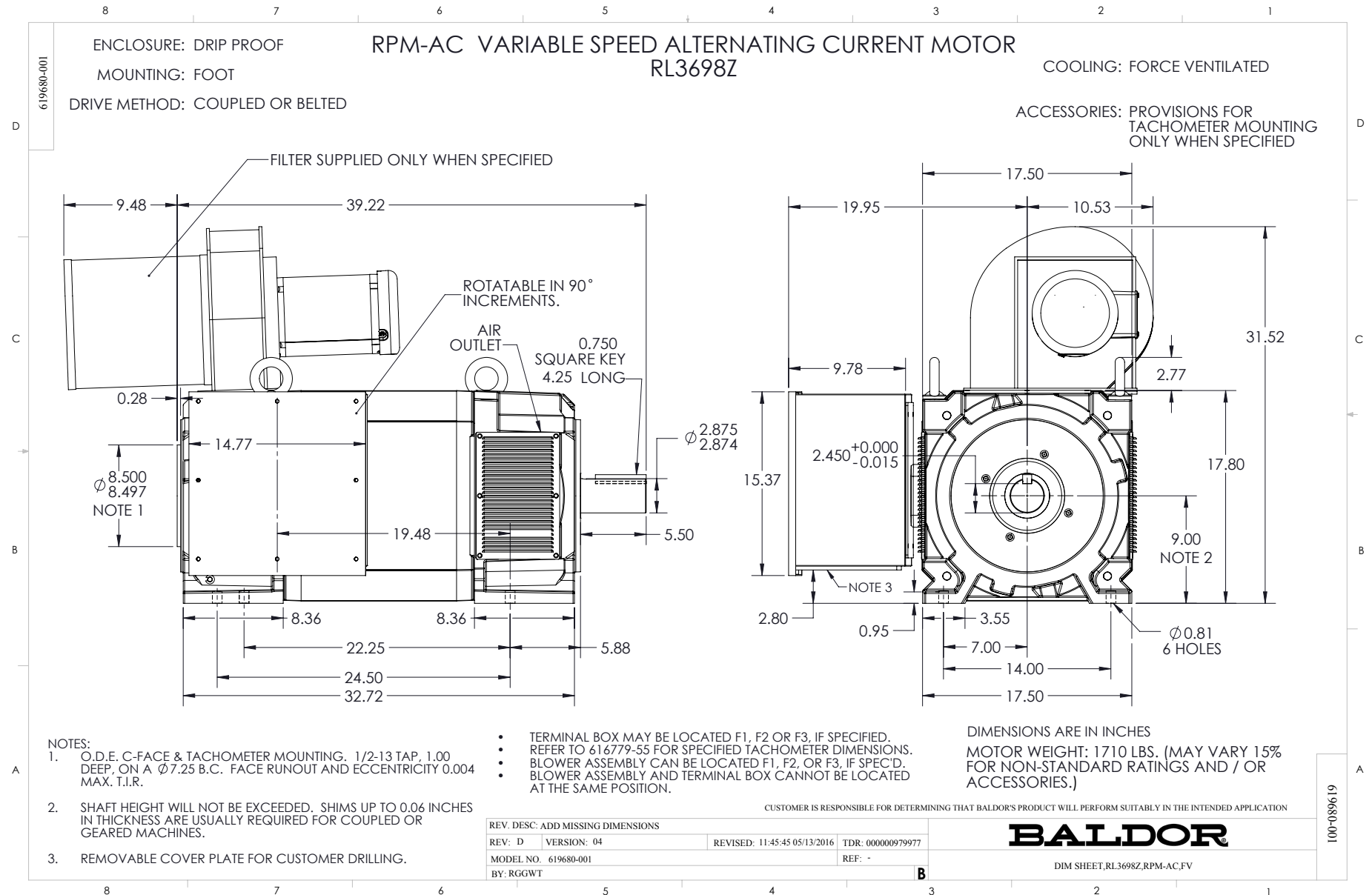
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BALDOR
A MEMBER OF THE ABB GROUP

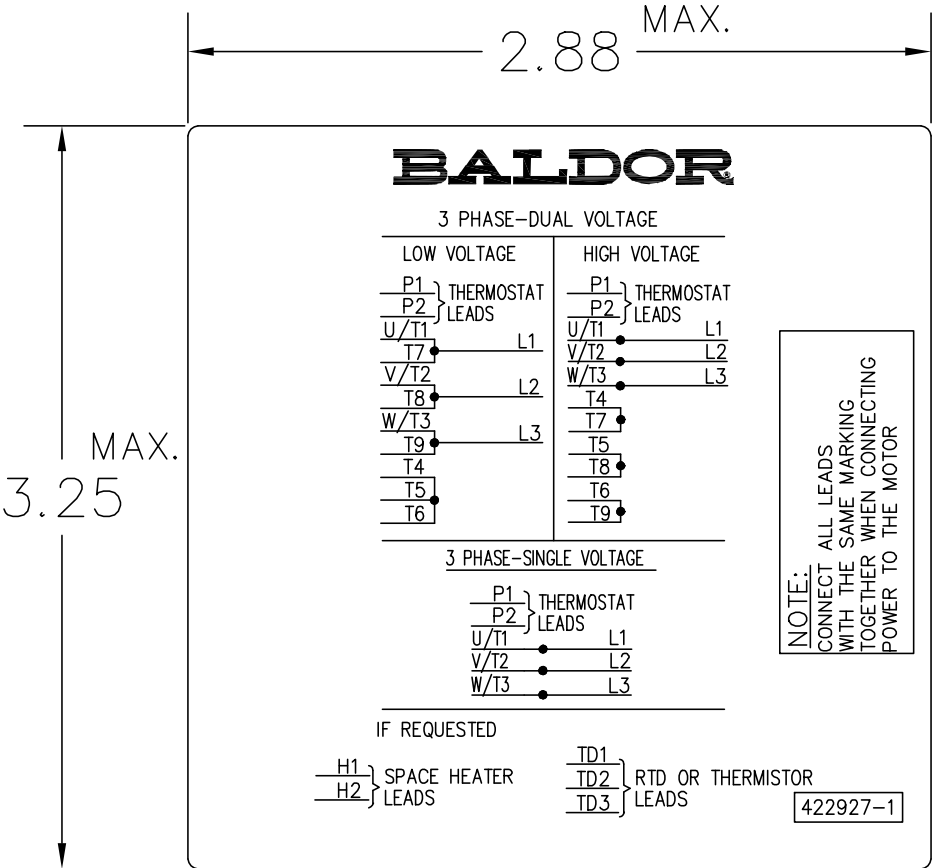
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**A-C MOTOR
PERFORMANCE
CURVES**

L6130A
SH 2 OF 2
ISSUE DATE 7-14-17



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