

ABB BALDOR RELIANCE III

Customer information packet

IDDRPM5017504

1750HP, 1750, 600V, RL5035, DPFV, F1

Specifications

Enclosure	DPFV
Frame	RL5035Z
Frame Material	Exposed Laminations
Frequency	60.00 Hz
Output @ Frequency	1750.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	600.0 V @ 60 HZ
Agency Approvals	CCSA US
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	1512.000 A @ 600.0 V
Duty Rating	CONT
Feedback Device	ENCODER
Frame Prefix	RL
Heater Indicator	No Heater
High Voltage Full Load Amps	1512.0 a
Insulation Class	H
IP Rating	NONE
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	77.32 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	1787 rpm
Starting Method	Full Voltage

Part Detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	L9097A
Layout	622004-001
Eff. date	08-24-2023
CD Diagram	422927-001
Poles	04
Leads	
Proprietary	False
Created date	11-09-2021

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

Nameplate

000613006MY									
	DUTY	HP	RPM	AMPS	VOLTS	HZ			
	CONT	1750	1787		1512	600	60		
	CONT	1750	2600		1479	600	87.3		
CAT.NO.	IDDRPM5017504		SPEC. NO.		R50-A000-0006				
SER.NO			FR	RL5035Z	INSUL	H			
PH.	3	MAX SAFE SPEED		3000	AMB.	40	MIN. AMB.	-25	
DESIGN NO.	L9097A		TYPE		ENCL.		DPG-FV		
S.F.	1.00		D.E. BRG.		120BC02J30X				
ENCL MOD			O.D.E. BRG.		6224/C3J20AA				
	IP23								

FRAME	RL5035	AMPS	1512	MAX SAFE SPEED	3000				
HP	1750	DUTY	CONT	IM (AMPS)	488	R1	.00124	X1	.0213
BASE SPEED	1787	S.F.	1.0	P.F. @NL / FL	.022/.870	R2	.00125	X2	.0305
PHASE/HZ	3/60	AMB.°C / INSUL	40/H	WK ² (Lb-Ft ²)	269			XM	.720

RATED FULL LOAD DATA

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
BASE SPEED	1787	1751	5144	600	60	1482
MAX SPEED	2599	1752	3538	600	87.3	1449
MIN SPEED	0	0	5144	5.10	.433	1482

LOAD PERFORMANCE AT BASE SPEED

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	1800	0	0	600	60	479
1/4	1797	438	1279	600	60	591
1/2	1794	876	2566	600	60	839
3/4	1791	1312	3849	600	60	1144
FULL LOAD	1787	1750	5144	600	60	1482
0/L	1767	3758	11163	600	60	3255

REMARKS:
TYPICAL DATA
TYPICAL DATA

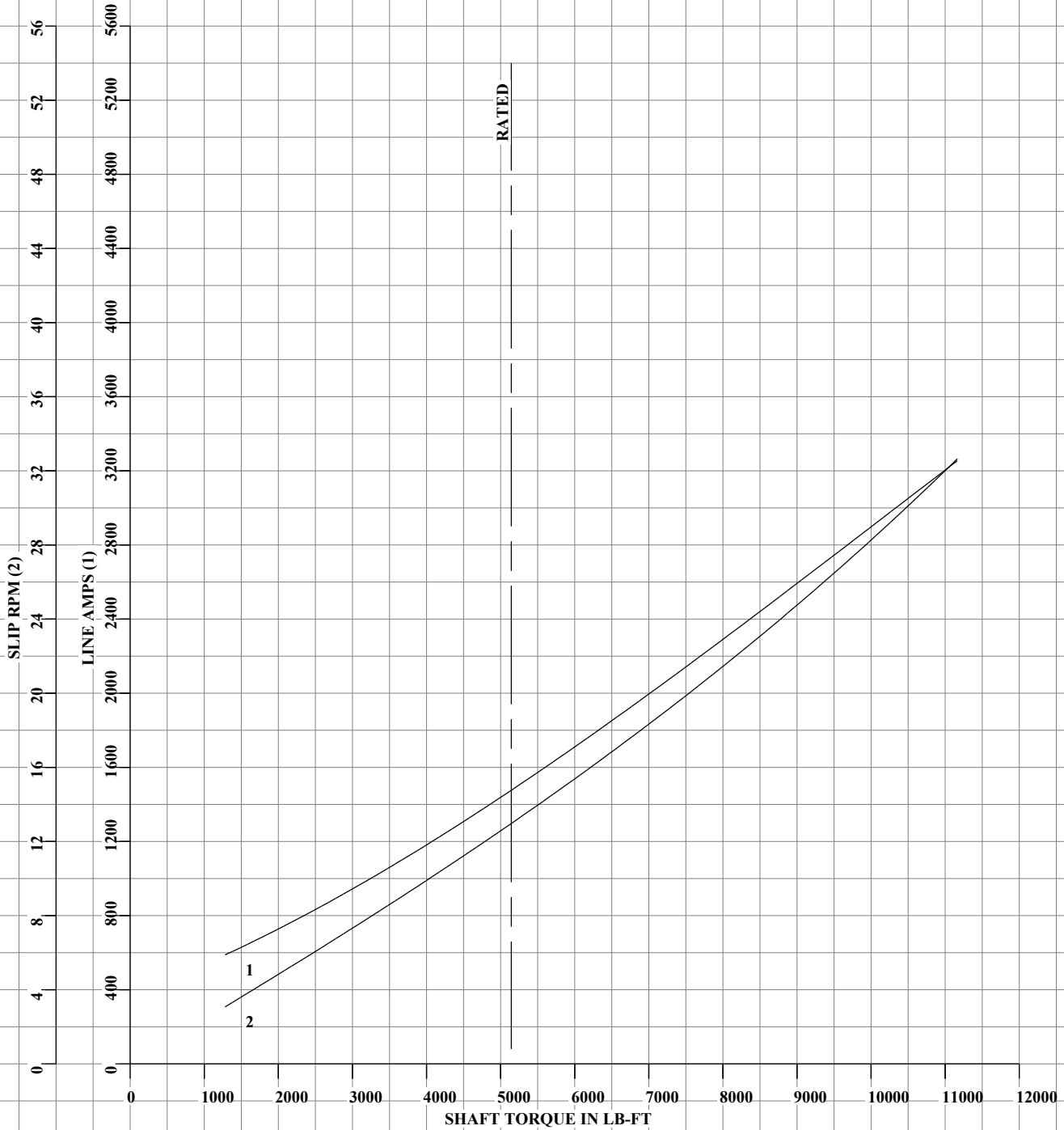

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CHECKED BY: C. ETIENNE
APPROVED BY: J. MARTIN
DATE: 10/13/21

**AC MOTOR
PERFORMANCE
DATA**

L9097A
ISSUE DATE 10/13/21

FRAME	RL5035	VOLTS	600	ENCLOSURE	DPFV	WYE CONNEQ CKT OHMS PER PHASE (AT BASE RATING, 25°C)		
HP	1750	AMPS	1512	MAX SAFE SPEED	3000	R1	.00124	X1 .0213
BASE SPEED	1787	DUTY	CONT	IM (AMPS)	488	R2	.00125	X2 .0305
PHASE/HZ	3/60	S.F.	1.0	P.F. @NL / FL	.022/.870			XM .720
		AMB.°C / INSUL	40/H	WK ² (Lb-Ft ²)	269			

**TYPICAL DATA
LOAD PERFORMANCE (CONSTANT V/HZ RANGE)**



TYPICAL DATA, DATA VALID FOR NAMEPLATE SPEED RANGE ONLY



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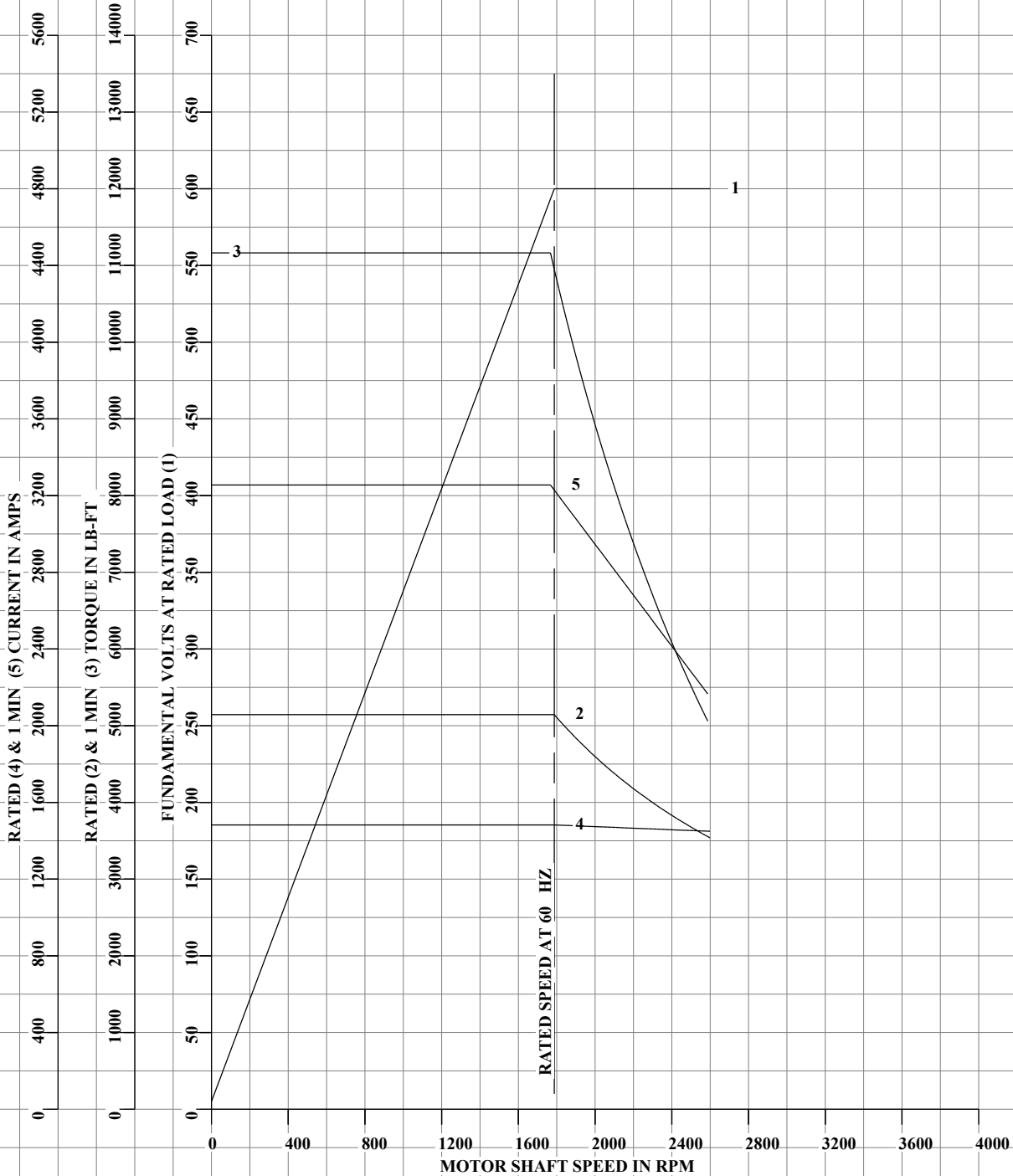
**AC MOTOR
PERFORMANCE
DATA**

L9097A

ISSUE DATE: 10/13/21

FRAME	RL5035	VOLTS	600	ENCLOSURE	DPV	WYE CONNEQ	CKT OHMS PER PHASE
HP	1750	AMPS	1512	MAX SAFE SPEED	3000	(AT BASE RATING, 25°C)	
BASE SPEED	1787	DUTY	CONT	IM (AMPS)	488	R1	.00124 X1 .0213
PHASE/HZ	3/60	S.F.	1.0	P.F. @NL / FL	.022/.870	R2	.00125 X2 .0305
		AMB.°C / INSUL	40/H	WK ² (Lb-Ft ²)	269		XM .720

**TYPICAL DATA
VARIABLE SPEED AC MOTOR CURVES**



TYPICAL DATA, DATA VALID FOR NAMEPLATE SPEED RANGE ONLY

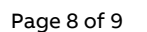


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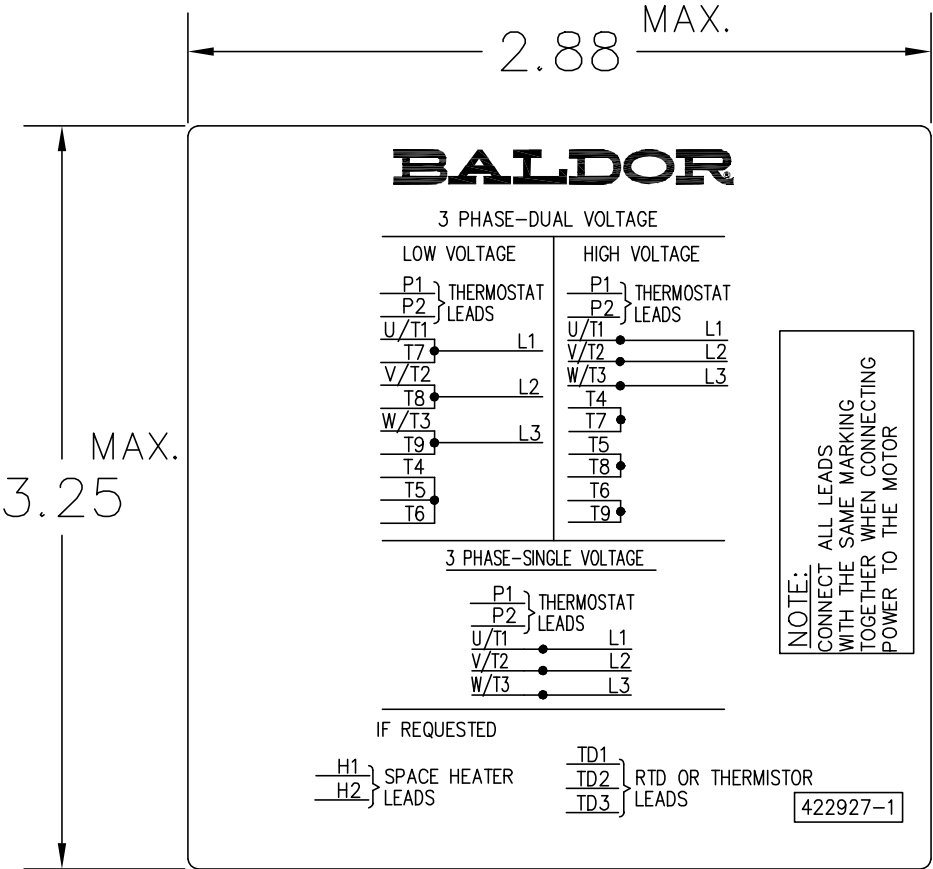
**AC MOTOR
PERFORMANCE
DATA**

L9097A

ISSUE DATE: 10/13/21



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