



Dynamic Brake or Chopper Connection

(1336 PLUS, PLUS II, FORCE, IMPACT G & H Frame Drives)

This publication will provide connection and drive programming information for a Dynamic Brake or Chopper connection to a G or H Frame Drive. Refer to Frame Ratings to match your drive nameplate data with a frame letter.

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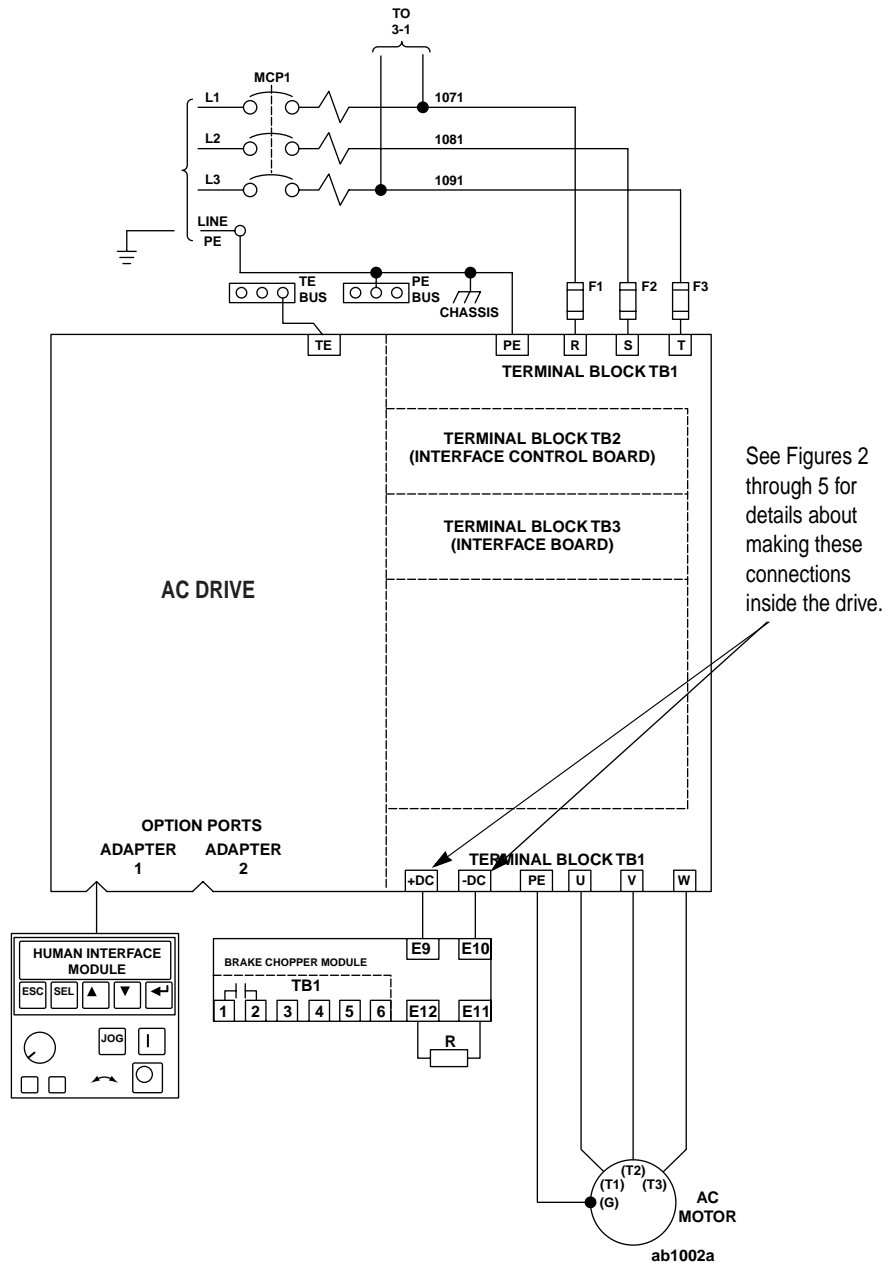
Frame Ratings

Table A Three-Phase Drive Rating⁽¹⁾

Frame Reference	380 – 480V	500 – 600V
G	187 – 448 kW	224 – 448 kW
	250 – 600 HP	300 – 600 HP
Frame Reference	380 – 480V	575 – 600V
H	293 – 384 kW	489 – 590 kW
	700 – 800 HP	700 – 800 HP

⁽¹⁾ kW and HP are constant torque (CT) ratings.

Typical Power Schematic Diagram Figure 1



Inductor/Connection Point Locations

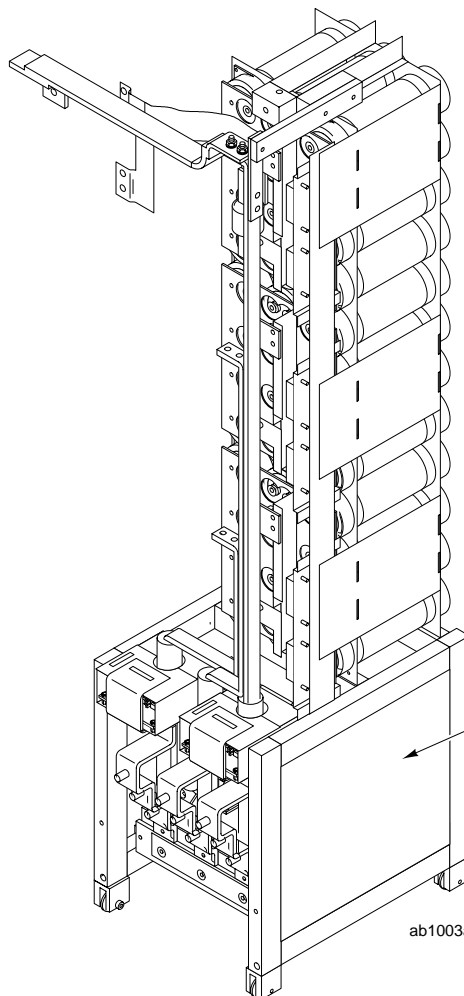
During power up, there can be a racing condition between the time the drive control board comes alive and verifies all input status and the time the Chopper control board comes alive and closes its AUX contact. To correct this condition, Rockwell recommends connecting a programmable CR4 NC contact at TB2-16 and TB2-17 across the Brake Chopper AUX Contact to shunt the contact until the BUS is fully charged and the logic inputs are satisfied. See Table B for recommended programming to provide enough time for the Chopper AUX contact to close, thus preventing AUX fault in the drive at power up.



ATTENTION: To avoid a shock hazard, assure that all power to the drive has been removed before proceeding. In addition, verify that the DC bus has discharged by measuring across the “+DC” and “-DC” terminals of TB1 with a voltmeter. The voltage should be 0.0VDC.

Important: Two different inductors were used — use appropriate drawing for inductor style in drive to have DB added.

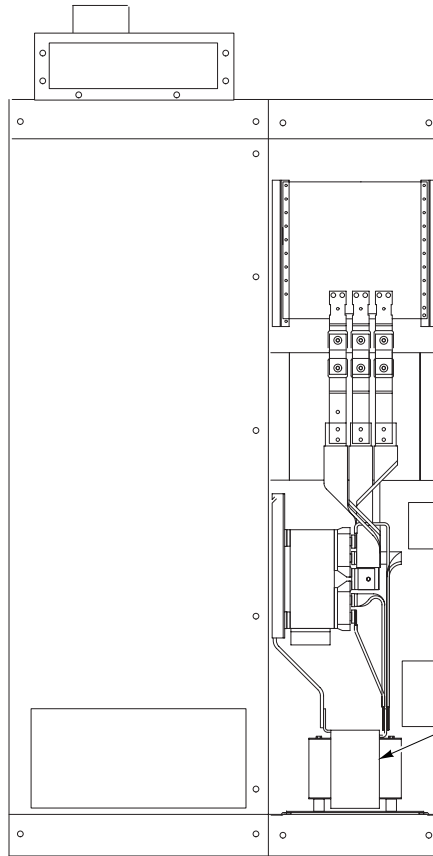
Figure 2
G Frame Drives



The inductor terminals to connect DC braking or DC Chopper braking onto the DC Bus are located in this area. Refer to additional details on following pages.

ab1003a

Figure 3
H Frame Drives



The inductor terminals to connect DC braking or DC Chopper braking onto the DC Bus are located in this area. Refer to additional details on following pages.

ab1081

Figure 4 DC Bus Inductor Style A Connection Points for Dynamic Brakes (G Frame Drive shown, H Frame Drive similar)

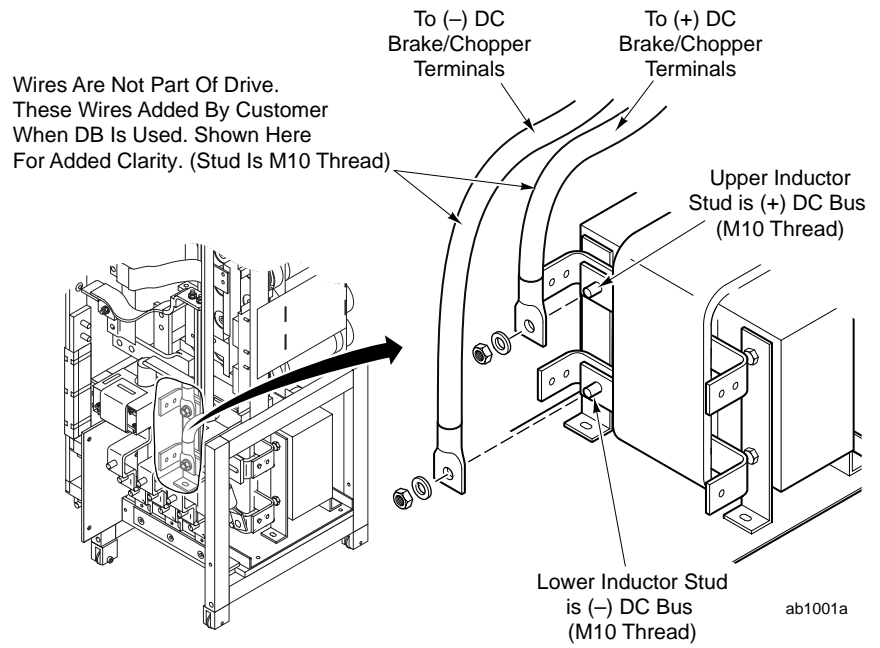
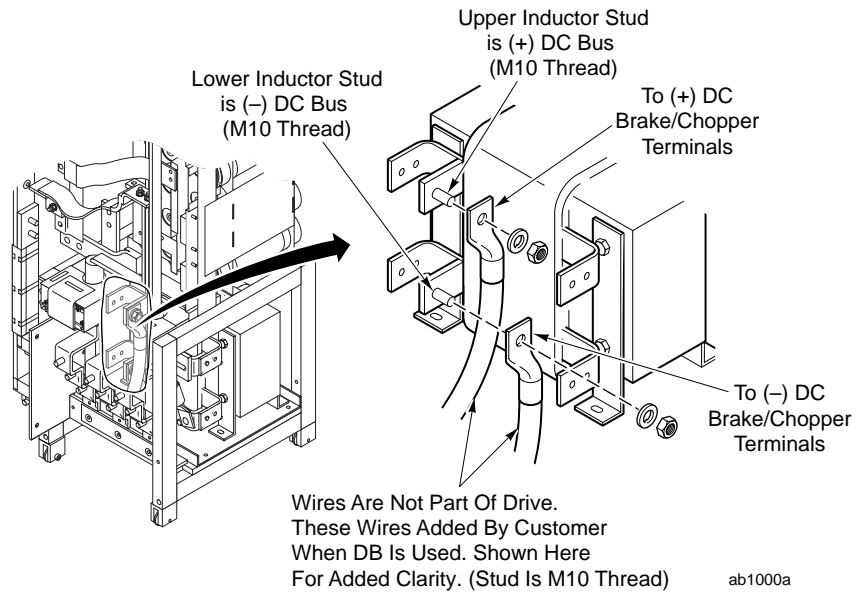
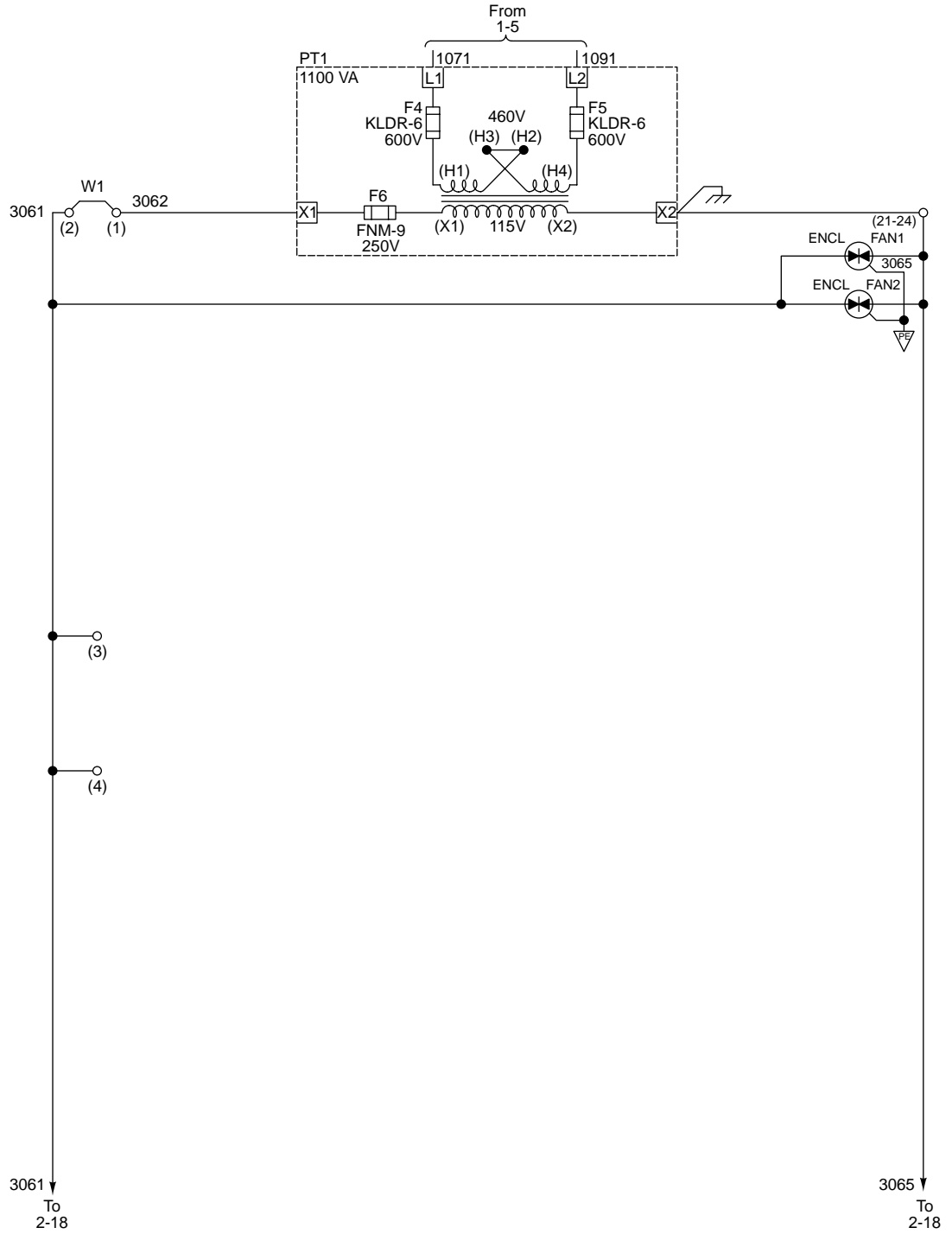


Figure 5 DC Bus Inductor Style B Connection Points for Dynamic Brakes (G Frame Drive shown, H Frame Drive similar)



Typical Control Power Scheme



Typical Parameter Programming

Table B

Parameter	Description	Standard Default	Shipped setting	Installed Setting
9	Control Select			Full Custom
21	Input Mode	1	14	
49	Break Frequency	0	Default	0%
176	CR4 Out Select	Alarm		Drive Ready

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