

AC100/200 SERIES DYNAMIC BRAKING OPTION (FOR MODELS RATED 0.25 - 10 HP)

INSTALLATION AND OPERATION INSTRUCTIONS

Document Number: 250-0300

The AC100/200 Series Dynamic Braking option can be used with all AC100 models and all AC200 models with parameter version 306 or higher. The parameter version is displayed momentarily when power is applied, and also appears on a sticker on the heatsink (for example, PV312).

WARNING!

DO NOT use the Dynamic Braking Module with AC200 drives of parameter version 305 and lower. The Dynamic Braking Module may operate with some AC200 drives prior to parameter version 306, but these drives do not provide the necessary thermal protection for the Dynamic Braking module.

PROGRAMMING AC100 SERIES DRIVES FOR DYNAMIC BRAKING

1. Set Parameter 06 (TB-14 OUTPUT) to DB BRAKE (11).
2. Set Parameter 10 (TB-13A FUNCTION SELECT) to DB FAULT (08), or set Parameter 11 (TB-13B FUNCTION SELECT) to DB FAULT (08), or set Parameter 12 (TB-13C FUNCTION) to DB FAULT (07).

PROGRAMMING AC200 SERIES DRIVES FOR DYNAMIC BRAKING

1. Set Parameter 09 (TB-31 OUTPUT) to DYNAMIC BRAKING (04).
2. Set Parameter 10 (TB-13A FUNCTION SELECT) to DB FAULT (09), or set Parameter 12 (TB-13C FUNCTION SELECT) to DB FAULT (08).

WIRING THE DB MODULE TO THE AC100/200 DRIVE

The diagrams below illustrate how the DB module is wired to the AC100 or AC200 drive. In the diagram below, TB-13A is used as the DB FAULT input, but TB-13C (or TB-13B on the AC100) could be used instead if TB-13A is required for another function.

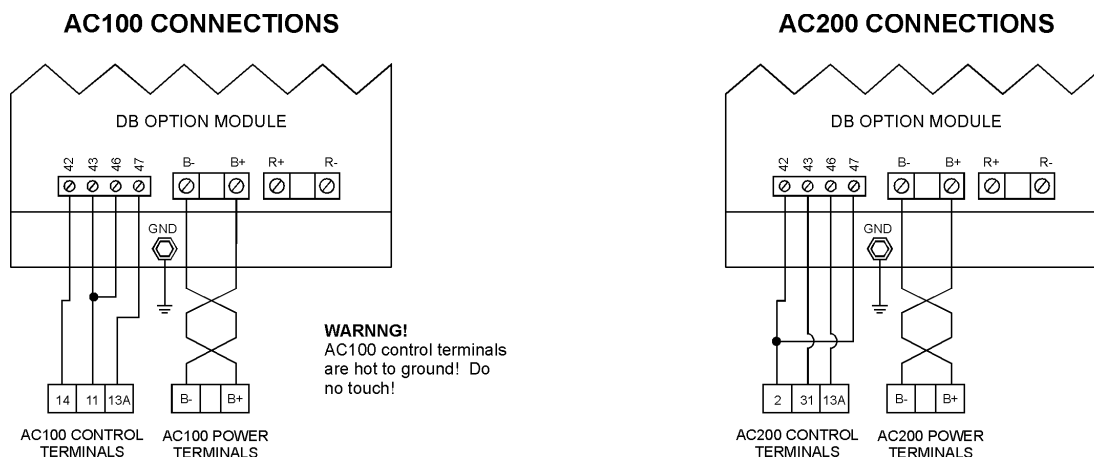
NOTE 1: Use 18 AWG wire for control connections.

NOTE 2: Use minimum 14 AWG wire for connections to B+ and B-. The B+ and B- wires must be less than 12 inches long and twisted together.

WARNING!

Incorrect wiring of the B+ and B- terminals **will result in equipment damage!** The B+ terminal on the DB module must be connected to the B+ terminal on the AC100/200 drive, and the B- on the DB module must be connected to the B- terminal on the AC100/200 drive.

DO NOT make connections to R+ and R- without consulting Minarik. Damage to the Dynamic Braking module and/or drive may result.

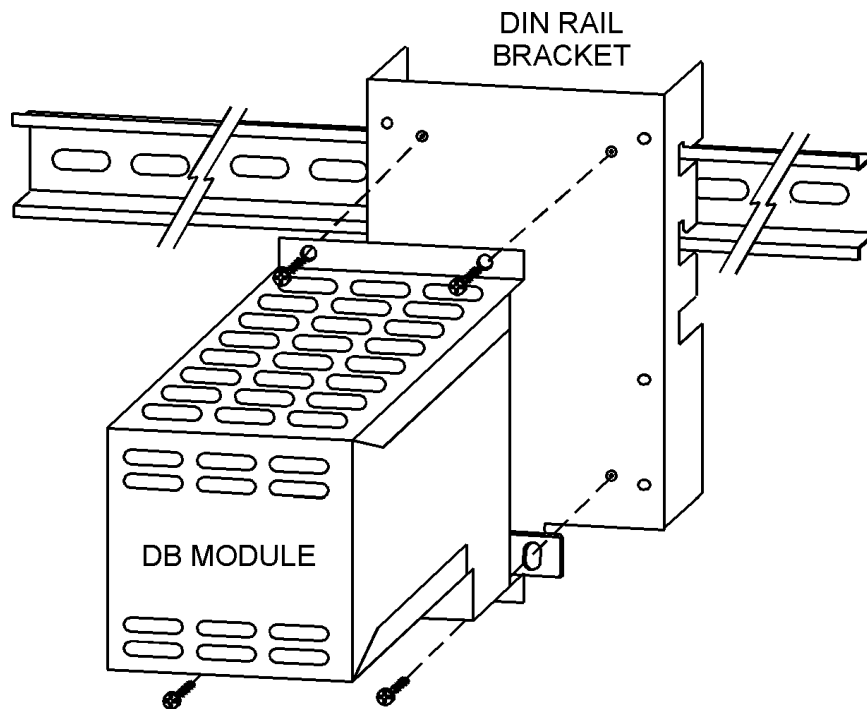


MOUNTING THE DYNAMIC BRAKING MODULE

The diagram below illustrates how to mount the DB Module. The DB Module is compatible with the DIN Rail Mounting Kit option for the AC200 drives, or can simply be mounted to a flat surface such as an electrical panel.

WARNING!

The DB module is a heat producing device; **DO NOT** mount the DB module below the AC100/200 drive! The DB module must be mounted above or to the side of the AC100/200 drive.



DIMENSIONS		
HP	W	D
0.25 - 1.5	3.1	3.1
2 - 3	3.1	4.3
5	3.1	5.6
7.5 - 10	4.2	6.7

