

INSTALLATION INSTRUCTIONS

DYNAMIC BRAKE MODULE (PART NO. 9598)

FOR USE WITH THE FOLLOWING KBVF 2G, 3G, AND 4G SERIES DRIVES
KBVF-13, 14, 21D, 22D, 23, 23D, 24, 24D, 26D



1 – DESCRIPTION

The Dynamic Brake Module (hereinafter referred to as, "DBM") is designed to work with the KBVF-13, 14, 21D, 22D, 23, 23D, 24, 24D, 26D 2G, 3G, and 4G Drives. The KBVF 3G and 4G Drives have the "(3G)" and "(4G)" designator on the product label.

TABLE 1
GENERAL PERFORMANCE SPECIFICATIONS

Wattage	Duty Cycle and Typical Application
200	Continuous on overhauling load.
375	Intermittent (50% on and 50% off).
750	To stop a motor 16 times per minute with 1 second deceleration time.
750	To stop a motor 2 times per minute with up to 8 seconds deceleration time. Medium inertia flywheel.
750	To stop a motor 1 time per minute with up to 16 seconds deceleration time. High inertia flywheel.
1500	To stop a motor 8 times per minute with 1 second deceleration time.
1500	To stop a motor 1 time per minute for up to 8 second deceleration time. High inertia flywheel.
2250	To stop a motor 5 times per minute with 1 second deceleration
2250	To stop a motor 1 time per minute with up to 5 seconds deceleration time.

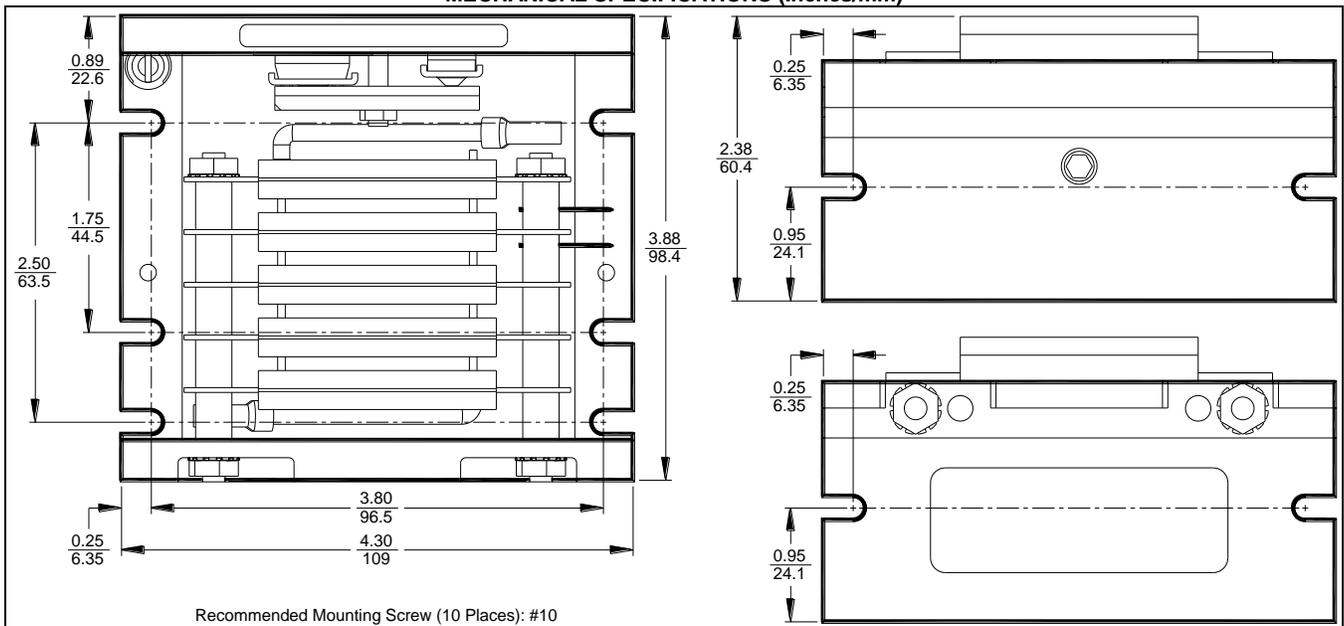
2 – MOUNTING

This DBM must be mounted in an enclosure. The enclosure should be large enough to allow for proper heat dissipation (including additional cooling, if required) so that the ambient temperature does not exceed 40 °C (104 °F). Leave enough room to allow for any wiring that is required. See Figure 1.

WARNING! Care should be taken to avoid extreme hazardous locations where physical damage to the DBM can occur due to moisture, metal chips, dust, and other contamination, including corrosive atmosphere that may be harmful. See Safety Warning, on page 3. Do not use this DBM in an explosion-proof application.

Application Note: The DBM should be mounted close to the drive, as shown in Figure 2 on page 2.

FIGURE 1
MECHANICAL SPECIFICATIONS (Inches/mm)



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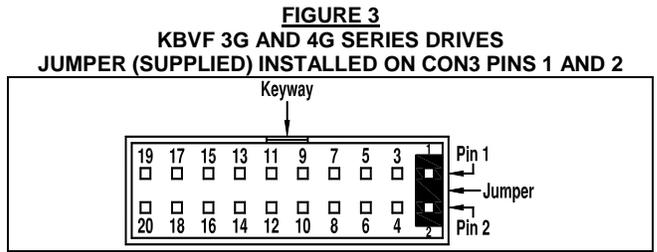
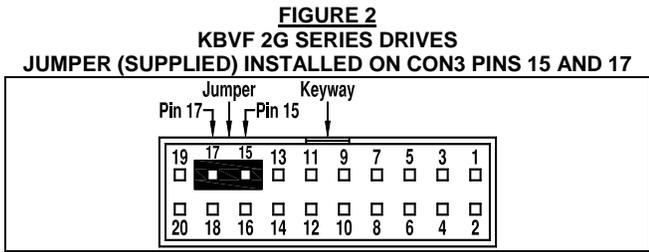
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3 – DRIVE SETUP

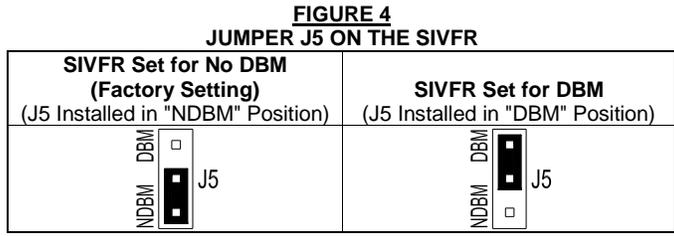
For the DBM to operate properly, the Decel Extend Feature of the drive must be disabled. This is accomplished by installing the jumper (supplied), using long-nose pliers, onto correct position of CON3. **Disconnect main power before installing this jumper.**

KBVF 2G Series Drives: Install the jumper onto Terminals 15 and 17. See Figure 2.

KBVF 3G and 4G Series Drives: Install the jumper onto Terminals 1 and 2. See Figure 3.



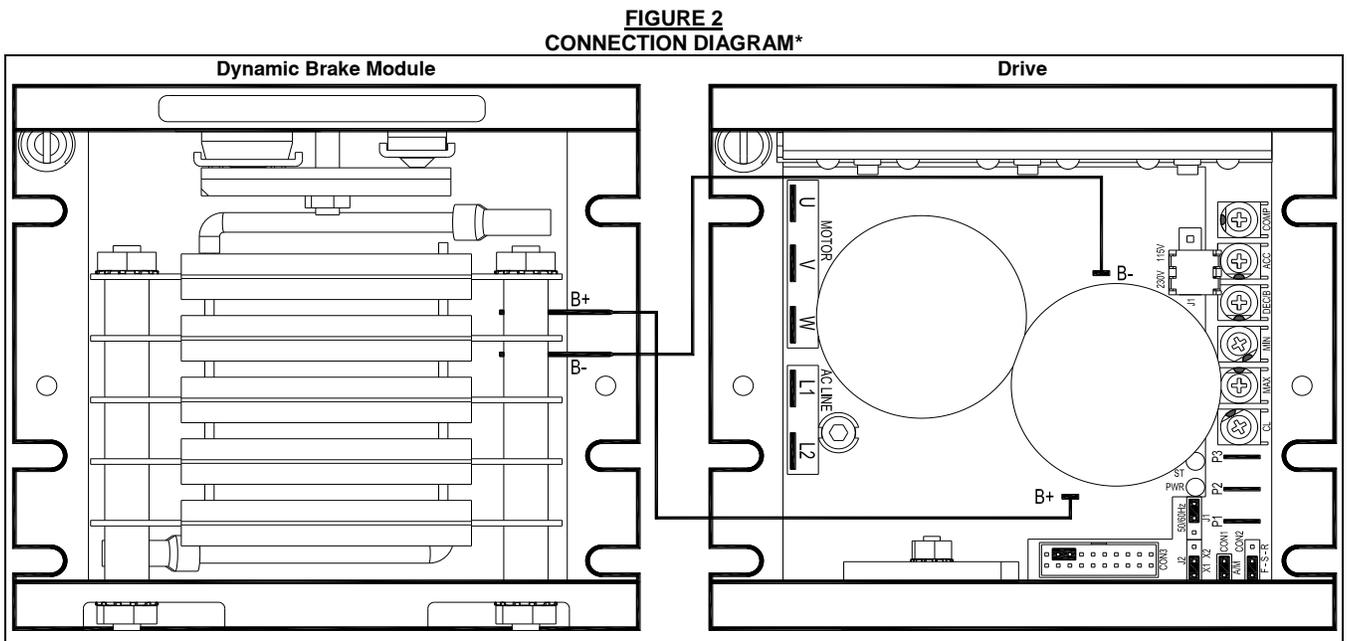
Application Note: When installing the optional SIVFR in addition to the DBM, do not install the jumper on CON3. The connector will be occupied by the End Connector of the Ribbon Cable which is used to interface the SIVFR to the drive. Set Jumper J5, on the SIVFR, to the "DBM" position. See Figure 4.



4 – ELECTRICAL CONNECTIONS

The DBM should be wired to the drive using the 9" 18AWG red and black interconnect wires which are provided. Terminal B+ on the DBM connects to Terminal B+ on the drive. Terminal B- on the DBM connects to Terminal B- on the drive. See Figure 2.

⚡ ⚠ WARNING! Read Safety Warning, on page 3, before using the drive. Disconnect main power when making connections to the drive. To avoid electric shock, be sure to properly ground the drive.



*Layout of drives, trimpot settings, and jumper settings may vary.

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TO VALIDATE THE 18 MONTH WARRANTY, PLEASE REGISTER THIS PRODUCT ONLINE

↓ ↓ ↓ ↓ ↓ ↓
KBelectronics.com/registration.htm



SAFETY WARNING! Please read carefully before proceeding.

This product must be installed and serviced by a qualified technician, electrician, or electrical maintenance person familiar with its operation and the hazards involved. Proper installation, which includes electrical connections, fusing or other current protection, and grounding, can reduce the chance of electrical shocks, and fires, in this product or products used with this product, such as electric motors, switches, coils, solenoids, and relays. Do not use this drive in an explosion-proof application. Eye protection must be worn and insulated adjustment tools must be used when working with drive under power. This product is constructed of materials (plastics, metals, carbon, silicon, etc.) which may be a potential hazard. Proper shielding, grounding, and filtering of this product can reduce the emission of radio frequency interference (RFI) which may adversely affect sensitive electronic equipment. It is the responsibility of the equipment manufacturer and individual installer to supply this Safety Warning to the ultimate end user of this product. (SW 8/2012)

The drive contains electronic Start/Stop circuits, which can be used to start and stop the drive. However, these circuits are never to be used as safety disconnects since they are not fail-safe. Use only the AC Line for this purpose. Be sure to read and follow all instructions carefully. Fire and/or electrocution can result due to improper use of this product.

LIMITED WARRANTY

For a period of 18 months from the date of original purchase, KB Electronics will repair or replace without charge, devices which our examination proves to be defective in material or workmanship. This warranty is valid if the unit has not been tampered with by unauthorized persons, misused, abused, or improperly installed, and has been used in accordance with the instructions and/or ratings supplied. The foregoing is in lieu of any other warranty or guarantee, expressed or implied. KB Electronics is not responsible for any expense, including installation and removal, inconvenience, or consequential damage, including injury to any person, caused by items of our manufacture or sale. Some states do not allow certain exclusions or limitations found in this warranty and therefore they may not apply to you. In any event, the total liability of KB Electronics, under any circumstance, shall not exceed the full purchase price of this product. (Rev. 2/2002)

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**The information contained in this literature is intended to be accurate.
However, the manufacturer retains the right to make changes in design, which may not be included herein.**



KB Electronics

12095 NW 39 Street, Coral Springs, FL 33065-2516

Phone: +1 (954) 346-4900 | **Fax:** +1 (954) 346-3377 | **Toll Free:** +1 (800) 221-6570

E-Mail: info@kbelectronics.com

www.kbelectronics.com