Specifications

Braking Torque	100% torque for 20 seconds (typical).
Duty Cycle	20% (typical).
Input Power	DC power supplied from DC Bus. Customer supplied 115V AC, 1∅, 50/60 Hz required for KB050 & KC050 brake operation. Enable Signal: 50 mA Fan Power: 600 mA
Optional Brake Fault Contact	(1) N.O. contact, TTL compatible, closed when 115V AC is applied, open when a brake fault or loss of power occurs. Customer supplied 115V AC, 50 mA required for KA005, KB005, KC005, KA010, KB010 & KC010 optional brake fault contact monitoring. UL/CSA Rating: 0.6 Amps, 125VAC. 0.6 Amps, 110VAC. 2.0 Amps, 30VAC. Initial Contact Resistance: 50mΩ maximum.
Temperature	-10°C to 50°C (14°F to 122°F).
Humidity	5% to 95% non-condensing.
Atmosphere	NEMA Type 1 — Cannot be used in atmospheres having corrosive or hazardous dust, vapor or gas.
Altitude Derating	1,000 meters (3,300 feet) maximum without derating.
Enclosure Type	KA005, KB005, KC005 — IP20 (NEMA Type 1) KA010, KB010, KC010 — IP20 (NEMA Type 1) KB050, KC050 — IP00 (Open)

Installation Requirements

ATTENTION: Electric Shock can cause injury or death. Remove all power before working on this product.

For all Dynamic Brake ratings, DC brake power is supplied from the drive DC Bus. In addition:

1. Dynamic Brakes KB050 and KC050 have fans and an enable circuit that requires a 115V AC user power supply.
2. Optional brake fault contact monitoring also requires a 115V AC user power supply. For KB050 and KC050 brakes, the same AC power supply may be used.

Hazards of electrical shock exist if accidental contact is made with parts carrying bus voltage. A bus charged indicator on the brake enclosures provides visual indication that bus voltage is present. Before proceeding with any installation or troubleshooting activity, allow at least one minute after input power has been removed for the bus circuit to discharge. Bus voltage should be verified by using a voltmeter to measure the voltage between the +DC and -DC terminals on the drive power terminal block. Do not attempt any servicing until bus charged indicating lights have extinguished and bus voltage has diminished to zero volts.

Mounting Requirements

Dynamic brake enclosures must only be installed in the vertical position. Select a location using the guidelines below and information provided in the Recommended Brake Configurations section.

- Each dynamic brake enclosure must be mounted outside of any other enclosure or cabinet and exposed to unrestricted circulating air for proper heat dissipation. Allow a minimum of 304.8 mm (12 in.) between brake enclosures and all other enclosure or cabinets including the drive.
- Each enclosure must be mounted in an area where the environment does not exceed the values listed in the specification section of this publication.
- If only one dynamic brake enclosure is required, the enclosure must be mounted within 3.0 m (10 ft.) of the drive.
- If more than one KB050 or KC050 brake enclosure is required, a separate user supplied terminal block must be mounted within 3.0 m (10 ft.) of the drive. Allow a maximum distance of 1.5 m (5 ft.) between each brake enclosure and the terminal block.
- If more than one KA005-KA010, KB005-KB010 or KC005-KC010 brake enclosure is required, the first enclosure must be mounted within 3.0 m (10 ft.) of the drive. Allow a maximum distance of 1.5 m (5 ft.) between each remaining brake enclosure.
- Separate conduit must be provided for the control connections between multiple brake enclosures.
- Separate conduit must be provided for the DC power connections between brake enclosures, the terminal block (if required) and the drive. For AC power connection and conduit requirements, refer to your 1336, 1336VT, 1336 PLUS II, or 1336 FORCE User Manual.

IMPORTANT: The National Electrical Codes (NEC) and local regulations govern the installation and wiring of the Heavy Duty Dynamic Brake. DC power wiring, AC power wiring, control wiring and conduit must be sized and installed in accordance with these codes and the information supplied on the following pages.