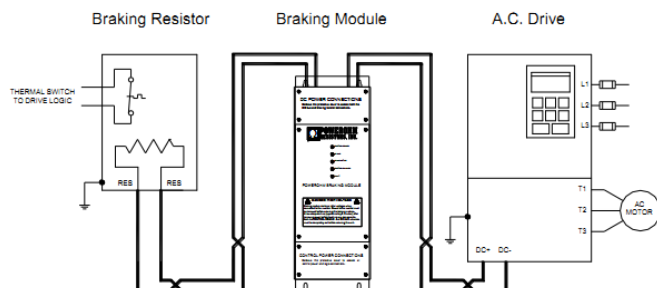


TYPE LG BRAKING MODULES

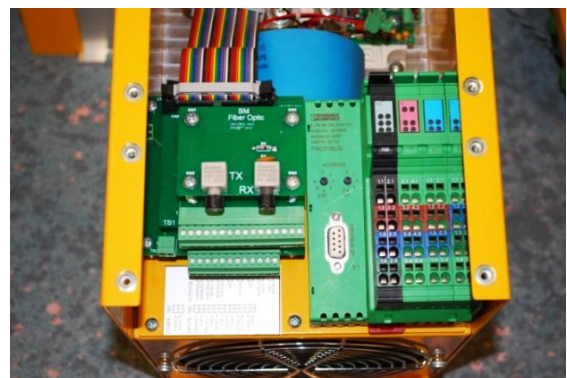
AC variable frequency drives are commonly used with general purpose AC induction motors to form reliable variable speed drive systems. Problems with these drive systems can occur when an application requires a deceleration rate faster than what can be managed by the drive alone, or when motor speeds exceed the synchronous speed set by the output frequency of the drive (which is called an overhauling load condition). Both of these conditions create regenerated power which flows from the motor back into the drive, causing its DC Bus Voltage to rise. To manage the regenerated power and avoid shutting the drive down due to an over-voltage trip, this power must be dissipated by an external braking resistor. Braking Modules are used in conjunction with an AC drive to monitor the DC bus of the drive and activate external braking resistor as needed.



A typical AC Drive, Braking Module and Braking Resistors shown in the left diagram.

PRODUCT OVERVIEW

- Nominal Voltage Ratings of 240, 480 and 600 volts (208 to 720VAC available).
- Continuous Current Ratings up to 1200 amps.
- Peak Current Ratings as high as 1800 amps.
- Common Mode Noise Filtration.
- Electronic Short Circuit Protection.
- Instantaneous Bus Over and Under Voltage Detection.
- Heat Sink Over-temperature Protection.
- Communication Modules such as Ethernet, Profibus and Mod Bus. Others are available.
- Master/ Slave Configuration (shown below with Fiber Optic Communication).



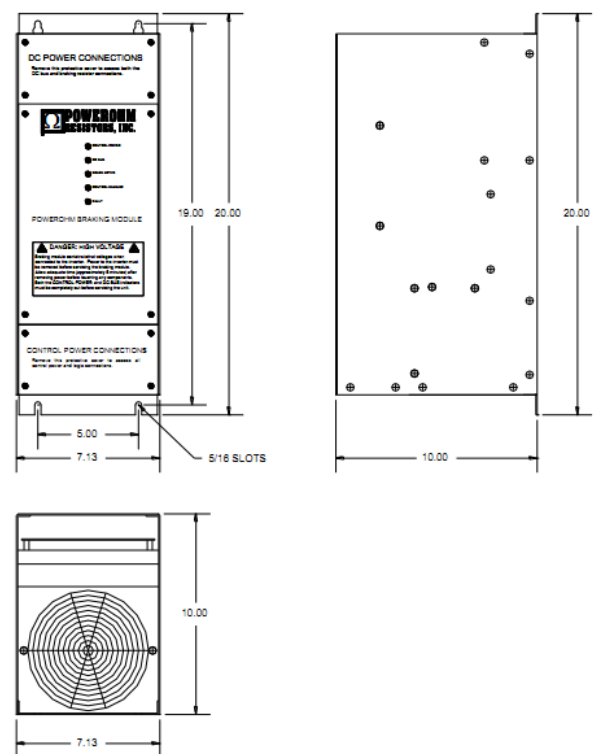
THE POWEROHM ADVANTAGE

- Programmable Voltages.
- Highest Continuous and Peak Amps in Class.
- Highest Voltage Trip Points in Class.
- No Separate DC Bus Pre-Charge Module Required

ELECTRICAL RATINGS AND DIMENSIONS – 450 AMP AND 600 AMP

Part Number	Line Voltage	Turn On Voltage	Cont Current	Peak Current	Min Ohms
BM208-450	208	336	450	600	0.56
BM240-450	240	390	450	600	0.65
BM380-450	380	612	450	600	1.02
BM415-450	415	670	450	600	1.12
BM480-450	480	775	450	600	1.29
BM600-450	600	970	450	600	1.62
BM690-450	690	1090	450	600	1.82
BM720-450	720	1120	450	600	1.87

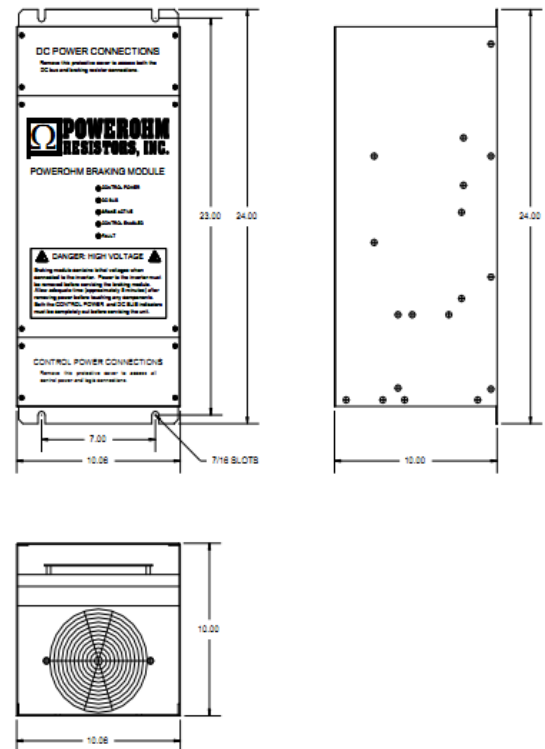
Part Number	Line Voltage	Turn On Voltage	Cont Current	Peak Current	Min Ohms
BM208-600	208	336	600	900	0.37
BM240-600	240	390	600	900	0.43
BM380-600	380	612	600	900	0.68
BM415-600	415	670	600	900	0.74
BM480-600	480	775	600	900	0.86
BM600-600	600	970	600	900	1.08
BM690-600	690	1090	600	900	1.21
BM720-450	720	1120	600	900	1.24



ELECTRICAL RATINGS AND DIMENSIONS – 900 AMP AND 1200 AMP

Part Number	Line Voltage	Turn On Voltage	Cont Current	Peak Current	Min Ohms
BM208-900	208	336	900	1350	0.25
BM240-900	240	390	900	1350	0.29
BM380-900	380	612	900	1350	0.45
BM415-900	415	670	900	1350	0.5
BM480-900	480	775	900	1350	0.57
BM600-900	600	970	900	1350	0.72
BM690-900	690	1090	900	1350	0.81
BM720-900	720	1120	900	1350	0.83

Part Number	Line Voltage	Turn On Voltage	Cont Current	Peak Current	Min Ohms
BM208-1200	208	336	1200	1800	0.19
BM240-1200	240	390	1200	1800	0.22
BM380-1200	380	612	1200	1800	0.34
BM415-1200	415	670	1200	1800	0.37
BM480-1200	480	775	1200	1800	0.43
BM600-1200	600	970	1200	1800	0.54
BM690-1200	690	1090	1200	1800	0.61
BM720-1200	720	1120	1200	1800	0.62



COMMUNICATION OPTIONS

Profibus Communication Module: Add “-PB” to part number.
Ethernet Communication Module: Add “-EN” to part number.
Fiber Optic (master/slave): Add “-FO” to part number.

ENVIRONMENTAL RATINGS

Ambient Temperature: -10°C to 40°C
Maximum Altitude: 3300 feet (1000m)
Maximum Vibration: 10 to 20Hz, 32ft/sec/sec;
20 to 50Hz, 6.5 ft/sec/sec