



M3575T

Standard Duty Braking Transistor Modules

OVERVOLTAGE SOLUTIONS FOR AC DRIVES

Dynamic Braking Transistor and Dynamic Braking Resistor Modules are used with AC drives to dissipate regenerated energy and eliminate overvoltage faults. These modules permit controlled braking of the AC drive, dramatically shorten the time required for a motor to stop as opposed to coasting.

Bonitron M3575T Standard Duty Braking Transistors can be used to increase productive throughput by decreasing stopping time and are designed to be used with all drives with DC bus field terminals. The M3575T Braking Transistor Modules monitor the drive DC bus levels and control power to a resistive load dissipating regenerated energy.

Standard modules are available rated up to 600 Amps DC with Braking Duty Cycles up to 20%.



FEATURES

- 20% Braking Duty: 15-600 hp: 230V and 480V AC line voltages available
- UL or CUL approved on models up to 75 Amps
- Wall or cabinet mountable
- Compatible with most fixed bus variable speed drives
- Only 4 connections

ADVANTAGES

- Single module covers high horsepower: 0 - 600hp single unit
- UL / CUL Certification denotes higher level of quality
- Certification allows a variety of application placements
- Can be installed as retrofit or with initial installation
- Fits most VFD DC bus electrical configurations
- Faster motor stopping allows for more productive throughput cycles

BENEFITS

- Minimizes downtime due to VFD overvoltage faults
- No additional installation hardware required due to connection versatility
- Covered terminals for added safety reduce electrical shock hazard
- Minimal downtime during installation due to easy connectability

INDUSTRY APPLICATIONS

Automotive.....Pick and Place
Paint Booths
Assembly Lines
Glass Handling
Downhill Conveyers

Elevators.....Industrial Elevators

Cranes.....Shipyards Cranes
Industrial Hoists

Food Processing.....Food Byproduct Separating

Pharmaceutical....Centrifuges

Railroad.....Rail Dumping Cars

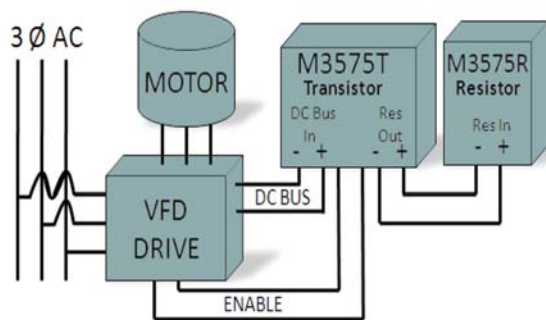
Testing.....Dynamometers

Sports Stadiums.....Retracting Stadium Ceilings

Fibers.....Web Presses

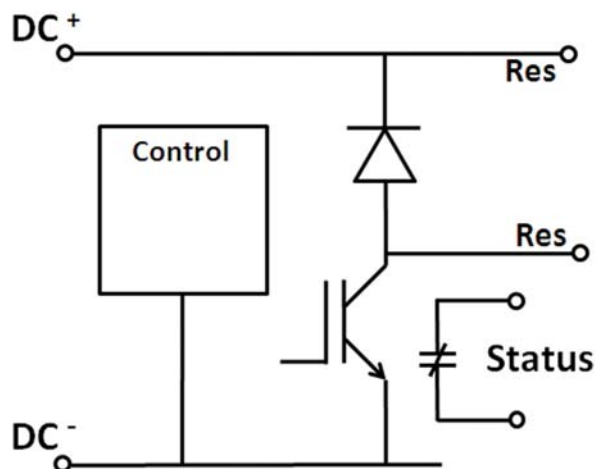
Printing.....Paper Roller
Tension Controllers

TYPICAL CONNECTIONS



VFD WITH EXTERNAL BRAKING TRANSISTOR

BLOCK DIAGRAM



MODEL NUMBER SELECTION TABLE

Model Number	Max DC Amps	Max Braking	Min Load (Ohms)	Chassis
230 VAC Drives				
M3575T-L15	15A	8 HP	25	M3
M3575T-L30	30A	15 HP	12.5	M3
M3575T-L60	60A	30 HP	6.25	M4
460 VAC Drives				
M3575T-H15	15A	15 HP	50	M3
M3575T-H30	30A	30 HP	25	M3
M3575T-H75	75A	75 HP	10	M4
M3575T-H125	125A	125 HP	6	B5
M3575T-H150	150A	150 HP	5	B5
M3575T-H200	200A	200 HP	3.75	B7
M3575T-H300	300A	300 HP	2.5	B7
M3575T-H600	600A	600 HP	1.25	B7

Models above 75A are not yet UL or CUL Certified.

DIMENSIONS

Chassis	(H x W x D)	Mounting (WxH)
M3	12.75 x 3.00 x 8.70"	12.0" (height)
M4	12.75 x 4.00 x 8.70"	12.00 x 1.75"
B5	17.75 x 5.65 x 8.25"	16.75 x 3.00"
B7	17.75 x 7.00 x 8.00"	16.75 x 5.00"

SPECIFICATIONS

Voltages.....230, 460 VAC UL/CUL Listed

Current.....5 - 600 Amps

Connections.....Drive DC Bus, Resistors, Status Contact

Control Power.....Derived from DC Bus

Turn-On Voltage.....750 VDC (460 VAC), 375 VDC (230 VAC)

Turn-Off Voltage.....725 VDC (460 VAC), 365 VDC (230 VAC)

Adjustments.....No Field Adjustments Necessary

Panel Indicators.....DC Bus, Active Braking

Package.....Enclosed Chassis

Duty Cycle.....20% MAX (Bonitron M3452 for higher Duty Cycle)

Maximum 'On-Time'...60 Seconds

Faults Output.....Fault Output Contact Opens on:
Over Temperature, Transistor Failure, Open Load