



# 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

## MODEL NUMBER SELECTION TABLE

Model Number	Max DC Amps	Max Braking	Min Load (Ohms)	Chassis
<b>230 VAC Drives</b>				
M3575T-L15	15A	8 HP	25	M3
M3575T-L30	30A	15 HP	12.5	M3
M3575T-L60	60A	30 HP	6.25	M4
<b>460 VAC Drives</b>				
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.

## INDUSTRY APPLICATIONS

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

**Elevators**.....Industrial Elevators

**Cranes**.....Shipyard Cranes  
Industrial Hoists

**Food Processing**.....Food Byproduct Separating

**Pharmaceutical**....Centrifuges

**Railroad**.....Rail Dumping Cars

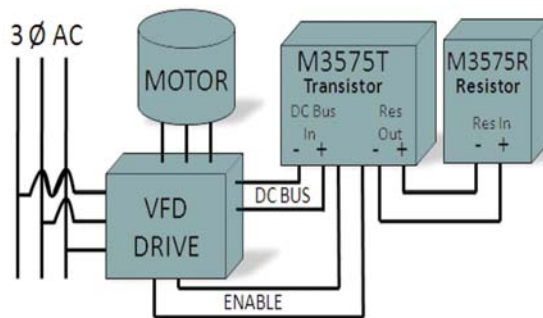
**Testing**.....Dynamometers

**Sports Stadiums**.....Retracting Stadium Ceilings

**Fibers**.....Web Presses

**Printing**.....Paper Roller  
Tension Controllers

## TYPICAL CONNECTIONS



VFD WITH EXTERNAL BRAKING TRANSISTOR

## 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

## BLOCK DIAGRAM

