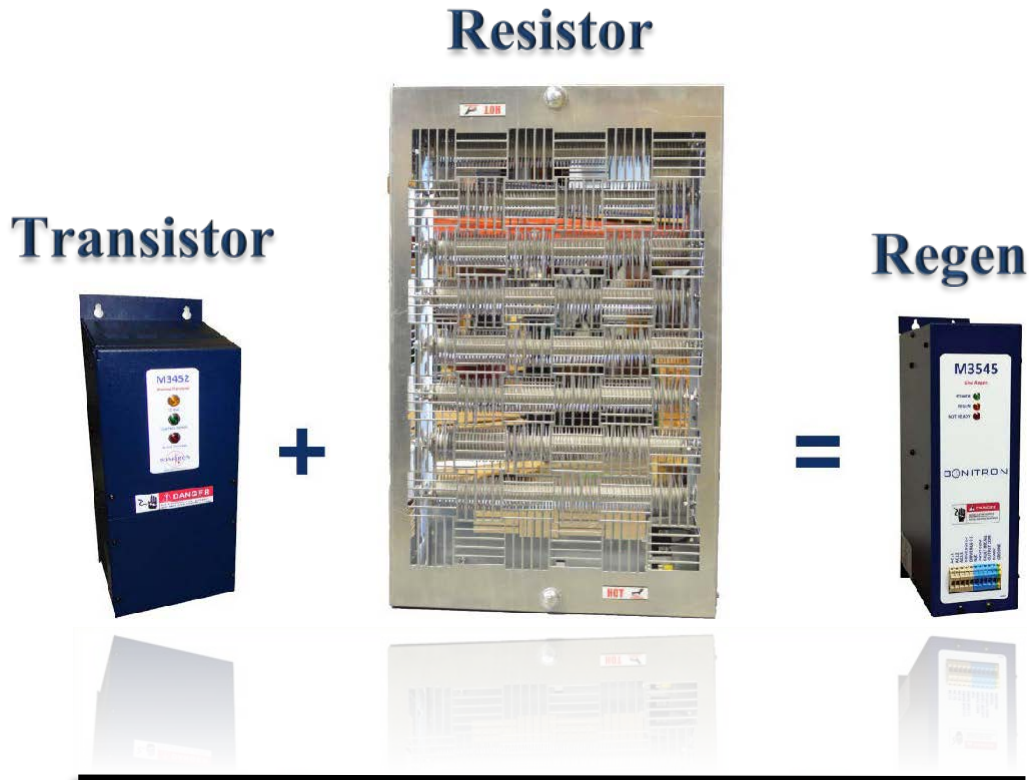


## 15HP RESISTOR VS. 15HP REGEN



### RESISTIVE LOAD BANK

- 15HP/15A Cont. 15HP/15A Peak
  - 230 - 690VAC
- 20% - 100% Duty Cycle

### FOOTPRINT

- 25.50" x 28.74" x 18.00" (H x W x D)
  - 17.75" x 7" x 8.10" (H x W x D)

### FUNCTION

- Braking Transistors monitor the DC bus for overvoltage and sends the excess power to a resistor where it is dissipated as heat.

### M3545 LINE REGEN

- 14HP/15A Cont. 21HP/22.5A Peak
  - 3-Phase 208 - 480VAC
- 100% Duty Cycle

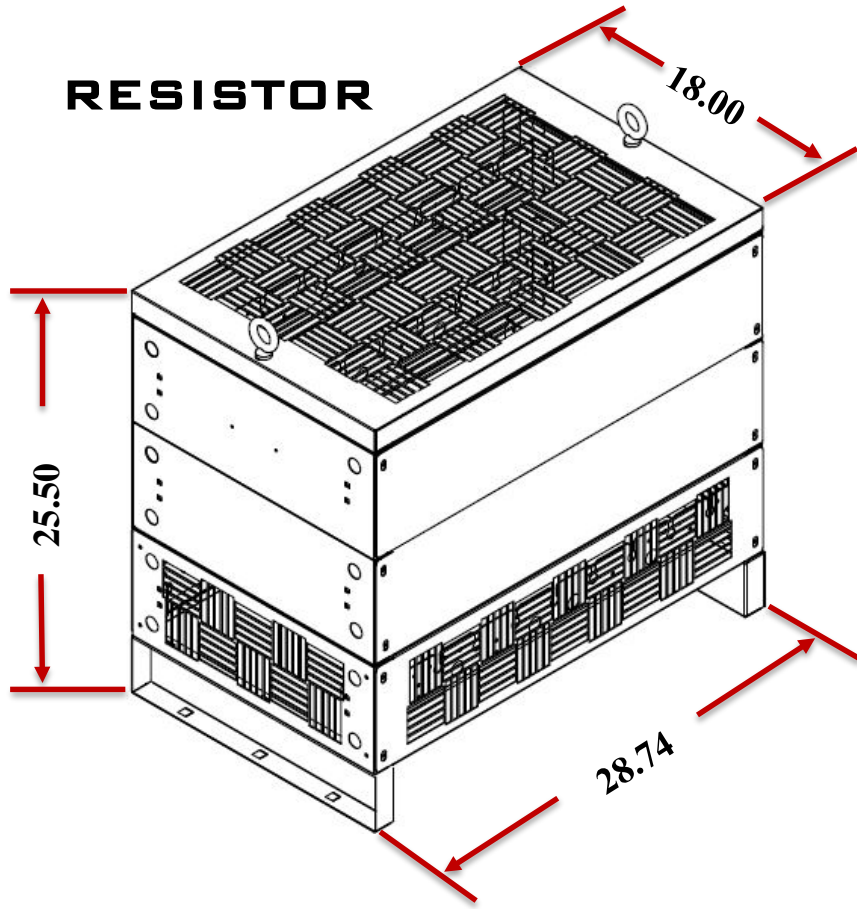
### FOOTPRINT

- 17" x 4.69" x 10.12" (H x W x D)

### FUNCTION

- The M3545 line regen enables energy being generated by an over-hauling motor to be efficiently returned to the power grid.

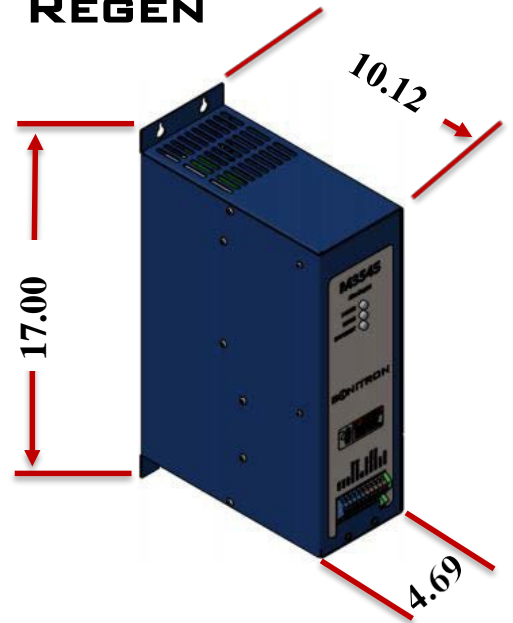
# RESISTOR



+

VS.

# REGEN



# TRANSISTOR



## OPERATIONAL COSTS

| 15HP DUTY CYCLE | COOLING         | WIRING     | ENERGY             | TOTAL            |
|-----------------|-----------------|------------|--------------------|------------------|
| 10%             | \$690.00        | \$100.00   | \$690.00           | \$1,480.00       |
| 20%             | \$1,365.00      | \$100.00   | \$1,365.00         | \$2,830.00       |
| 50%             | \$2,977.00      | \$100.00   | \$2,977.00         | \$6,054.00       |
| 100%            | \$6,862.00      | \$100.00   | \$6,862.00         | \$9,250.00       |
| <b>REGEN</b>    | <b>\$717.50</b> | <b>\$0</b> | <b>+\$4,575.00</b> | <b>\$3857.50</b> |

Cooling: Cost to remove heat dissipated.

Wiring: \$2.00/ft @ 50ft. of conduit plus man hours to install

Energy: 1HP = 746W @ 100% = 6,535 kWh/yr. (average industrial rate of \$0.07/Kwh)

## BEST CHOICE

| 15HP DUTY CYCLE | COOLING         | WIRING       | ENERGY       | OVERALL      |
|-----------------|-----------------|--------------|--------------|--------------|
| 10%             | <b>RESISTOR</b> | <b>REGEN</b> | <b>REGEN</b> | <b>REGEN</b> |
| 20%             | <b>REGEN</b>    | <b>REGEN</b> | <b>REGEN</b> | <b>REGEN</b> |
| 50%             | <b>REGEN</b>    | <b>REGEN</b> | <b>REGEN</b> | <b>REGEN</b> |
| 100%            | <b>REGEN</b>    | <b>REGEN</b> | <b>REGEN</b> | <b>REGEN</b> |

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