

# The Power of Collaboration Working for You



PartnerNetwork™ Solutions from Rockwell Automation



**Offering accessories that enhance reliability and maximize uptime in VFD and servo driven processes.**

- Line Regeneration
- 3-Phase Power Supplies
- Braking Transistors

## Design and Build Capabilities

- Power Electronics
- Embedded Control
- Power Quality Solutions
- Legacy Replacements
- OEM Power Components

## Control Regenerative Energy

- Eliminate overvoltage faults
- Utilize full power braking
- Ideal for drives with no internal brake
- Maximize uptime and increase profit



Allen-Bradley • Rockwell Software

**Rockwell  
Automation**

## Overview

The Bonitron and Rockwell Automation partnership provides customers with solutions to their Allen Bradley® drives which include, protecting your process from overvoltage faults, creating an efficient DC bus, increase efficiency by returning energy back to your line and reducing noise and risk of damage to sensitive electronics.



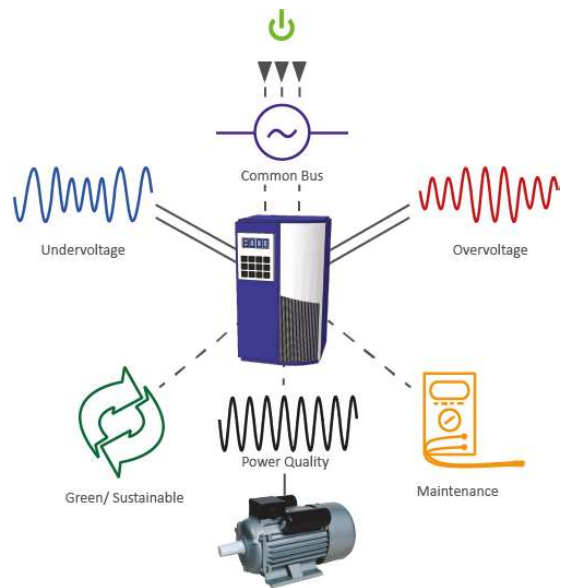
## Company Profile

Bonitron designs and manufactures quality industrial electronics that improve the reliability of processes and Allen Bradley drives worldwide. With products in numerous industries and an educated and experienced team of engineers, Bonitron has seen thousands of products since 1962.

## Industries & Applications

No matter what industry your AC drive and motor support, Bonitron has the solution to enhance your process and increase uptime. Your application may have multiple solutions, but Bonitron will go through the process with you to ensure you get the most cost-effective and efficient solution that fits your needs.

- Metals (Presses, Coilers, Rollformers)
- Mining (Rock Crushers, Ventilation, Excavators)
- Material Handling (Elevators, Conveyors, Palletizers)



## Solution Guide

Drive HP Rating	0	100	200	300	400	500	600	700	800	900	1000	2000	3000	<div>...</div>	6000	
Drives																
PowerFlex 75STR	1	Rockwell Automation													3	
Line Regen Module	Bonitron															
External Braking Transistor Module	Bonitron															
Common Bus Supplies																
Regenerative Bus Supply (M3645P)	Bonitron															
PowerFlex 75STM Bus Supply	2	Rockwell Automation													3	
Non-Regen Bus Supply (M3713)	Bonitron															
Non-Regen Bus Supply (A-B 205)	Rockwell Automation												...			

1. PowerFlex 75STR will be available from 10 HP in a future release  
 2. PowerFlex 75STM Bus Supply will be available from 50 HP in a future release  
 3. Maximum HP for the PowerFlex 75STR and PowerFlex 75STM will increase to 6000 HP in a future release

*If you've got VFDs, you'll need some of these!*

## Line Regeneration

When variable speed drive systems are braking, they generate power that must be dissipated. If the excess energy is not dissipated, the drive system can lose control of the process due to an overvoltage trip. The M3645 and M3545 returns this energy to the power grid efficiently, with minimal heat loss, allowing the entire braking system to be installed in the drive cabinet. This reduces installation footprint and facility cooling costs.



## Common Bus Power Supplies

The Bonitron M3713, DC Bus Supply is a six pulse diode bridge that can serve as the main power supply for your common bus DC systems. The M3713SC can also be used as a building block for 12 and 18 pulse systems using standard VFDs. These systems mitigate harmonics and other power quality issues. The M3712 is a low-cost solution for powering 3-phase AC drives from a single phase source. 3-phase motors are the economical choice for motor applications above 10 horsepower, however many locations only have single phase power available due to the cost of expanding 3-phase availability.



## Braking Transistors

When variable speed drive systems are braking, they generate power that must be dissipated. If the excess energy is not dissipated, the drive system can lose control of the process due to an overvoltage trip, or must extend the braking time to keep from overpowering the drive. Bonitron Braking Transistors are used with AC drives to allow full power braking and eliminate overvoltage faults. Bonitron transistors monitor the DC bus, and if overvoltage occurs, the Bonitron Transistor shunts the excess energy through a resistive load bank to prevent overvoltage faults.



## PartnerNetwork™

The PartnerNetwork program is a framework of well-managed relationships formed as a result of customer need. It provides manufacturers with access to a local, regional and worldwide network of best-in-class suppliers. These specialists offer the industry experience and technological know-how to help solve business challenges both large and small.

Through the PartnerNetwork program, Rockwell Automation delivers a wide array of solutions, easier access to knowledge and consistent delivery of solutions to help improve our customer's business results.