

# WaveSync®

## RIDE THROUGH MOMENTARY POWER SAGS AND INTERRUPTIONS

### Features

The WaveSync ride through controller was designed for any equipment utilizing three phase AC induction motors including:

- Air Compressors
- Chillers
- Pumps
- Fans
- Grinders

Quick and easy Installation.

Cost effective - can pay for itself with just one ride through event.

### Benefits

Keeps operations running through intermittent power failures of 0 - 3 seconds.

Prevents lost productivity for businesses where power sags are a reoccurring problem.

### NOT A MOMENT TOO SOON

Reliable power keeps your operations running. But it only takes a moment to bring things to a screeching halt. Even with the most reliable power, your processes are susceptible to shutdowns. Momentary interruptions and power sags are two of the most common culprits. These power quality interruptions generally last less than one second, but they still have the effect of shutting down your processes resulting in downtime to your company - and that means lost productivity and increased costs. But now there's a way to take back the power. Introducing WaveSync, an innovative ride-through controller developed by Bay Controls.

### THE NEW WAVE IN POWER PROTECTION

The WaveSync ride through controller is a revolutionary electronic control device that provides three phase AC induction motors of any size with the ability to ride through momentary power interruptions and voltage sags. With the introduction of WaveSync, the power quality experts at Bay provide manufacturers with a cost effective solution for mitigating the negative effects of power quality events. Using a patented, proprietary technology, WaveSync safely disengages and reengages supply voltage in phase with the back EMF of the motor, protecting your critical processes and minimizing the costs associated with power quality events. Installation is quick - with the unit fitting into most existing control enclosures - and easy, employing an integrated "Learn Mode" - making configuration a snap. Plus, WaveSync's modular design provides easy maintenance. And because of its low cost, WaveSync can pay for itself with just one ride through event.



### POWER CONTROL

The Department of Energy estimates that power quality issues cost U.S. businesses over \$160 billion dollars a year in lost productivity and downtime. Our research shows the average industrial user will experience six momentary power interruptions and as many as 40 sag events per year. All power customers will experience power quality events at some point in time. If your business depends on continuous production processes you can expect process disruptions. It's time to fight back and put the power back in your hands with WaveSync. Contact a Bay sales representative today to learn more and discover the right WaveSync controller for your needs.



## Who We Are . . .

Bay is an energy solutions company that provides products and services to a broad range of industrial, commercial, government, and now, home customers. We provide cost savings for our clients through increased energy efficiency, improved system management, better reliability, and reduced downtime. Bay was founded in 1983. As of December 1, 2008, our solutions - with over 5,000 installed units worldwide - are providing over 1.8 terawatt-hours (1,800 million kilowatt hours) of annual energy savings for our customers in 70 countries. Our headquarters and network operations center is located in Maumee, Ohio.

## Other Products

**Bay® Compressor Controller**  
Industry leading controls for all rotary screw, reciprocating, and centrifugal air compressors.

**BayWatch®**  
Web-based hosted monitoring and alerting system for single and multi-plant applications.

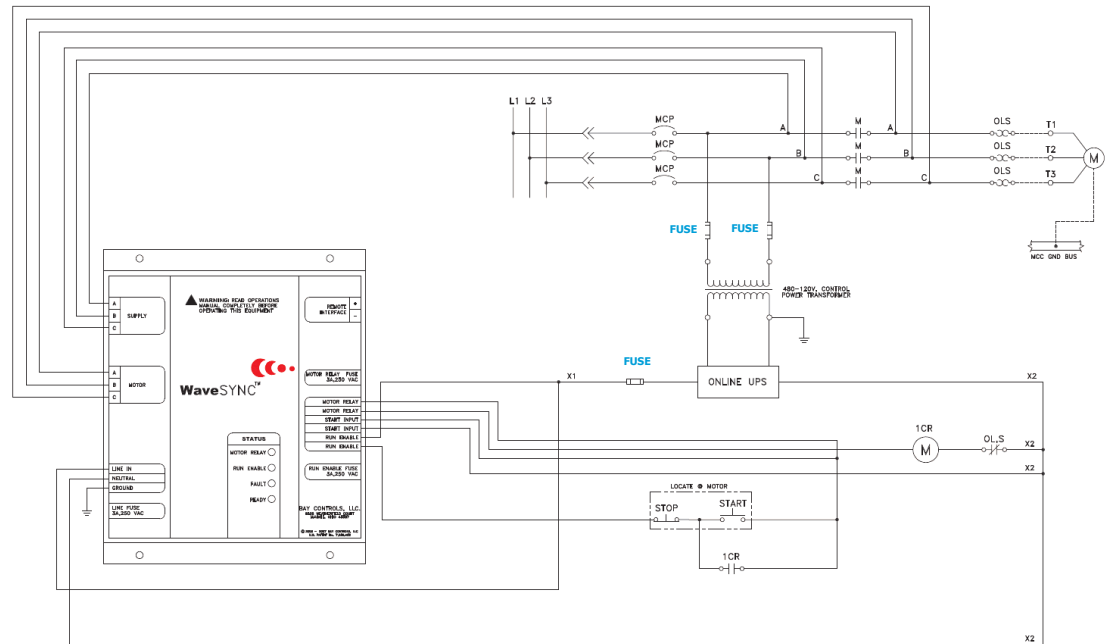
**BayView® Server**  
Full featured, HMI/SCADA system for air compressors controlled by the Bay Compressor Controller.

**BayNet®**  
Advanced scheduling system, automating compressor schedules and operating conditions.

**BayView® 20/20**  
Customizable HMI/SCADA system for integrating varying plant systems.

**PLC Custom Controls**  
Advanced customized control systems for cooling towers, dryers, and other industrial applications.

## Typical Installation



## Specifications & Requirements

Dimensions L x W x H (in.)	8.25 x 8 x 1.75
Dimensions L x W x H (cm.)	20.96 x 20.32 x 4.45
Weight (lbs./kg.)	3 / 1.35
Environment	Operating temperature range: 32°F/0°C to 122°F/50°C
Power Requirements	<ul style="list-style-type: none"> <li>120V model (part numbers WS-x-x-240): 117 VAC nominal, 600 VAC maximum</li> <li>240 V model (part numbers WS-x208-x): 220 VAC nominal, 600 VAC maximum</li> </ul>
Fuse Specifications:	LINE FUSE: 0.5 Amp, 250 VAC, fast acting, Littelfuse Type H. MOTOR and FEEDBACK FUSES: 3 Amp, 250 VAC, fast acting, Littelfuse Type H.
Remote Interface:	Two-wire RS-485 serial interface, 4800 Baud, 8 data bits, 1 stop bit, no parity. Modbus RTU protocol.



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