Sales Release: SB2075

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For Release: Immediately
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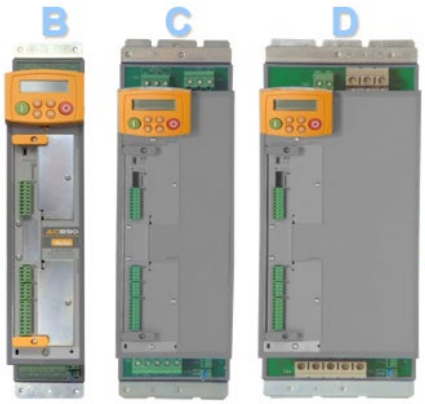
Migration Paths from AC890 to AC30

Rohnert Park, CA May 2025— Parker's Electronic Motion & Controls Division (EMC) is sending this notification to provide our customers potential migration paths from the AC890 to AC20 and AC30 Industrial Drives.

890SD for frames BCD

- The AC20 can be used for simple applications that do not require Firewire, Peer to Peer connection or Registration.
- The AC30 can be used in most 890 applications. An 890 LINKnet card will be required in lieu of Firewire. This card goes on the 890 drive and not the AC30 drive. The AC30 cannot be used in Registration applications. The AC30 is only available in 460 VAC.



AC20
Simple applications
No LINK blocks
No Firewire
No peer to peer
No registration

AC30
Most applications
LINKnet
No Firewire
No registration
No 230V drives

890SD for frames EF

- The AC20 can be used for simple applications that do not require Firewire, Peer to Peer connection or Registration.
- The AC30 can be used in most 890 applications. An 890 LINKnet card will be required in lieu of Firewire. This card goes on the 890 drive and not the AC30 drive. The AC30 cannot be used in Registration applications. The AC30 is only available in 460 VAC.

AC20
Simple applications
No LINK blocks
No Firewire
No peer to peer
No registration

AC30
Most applications
LINKnet
No Firewire
No registration
No 230V drives

890SD for frames GHJ

- The AC20 can be used for simple applications that do not require Firewire, Peer to Peer connection or Registration. The AC20 has a maximum of 250HP. Power terminals are located at the bottom of the drive.
- The AC30 can be used in most 890 applications. An 890 LINKnet card will be required in lieu of Firewire. This card goes on the 890 drive and not the AC30 drive. The AC30 cannot be used in Registration applications. There is no brake switch on AC30 drives greater than 300HP. Power terminals are located at the bottom of the drive.

AC20
Max 250HP
Simple applications
No LINK blocks
No Firewire
No peer to peer
No registration
Power terminals at the bottom

AC30
Most applications
LINKnet
No Firewire
No registration
No brake switch on > 300HP
Power terminals at the bottom

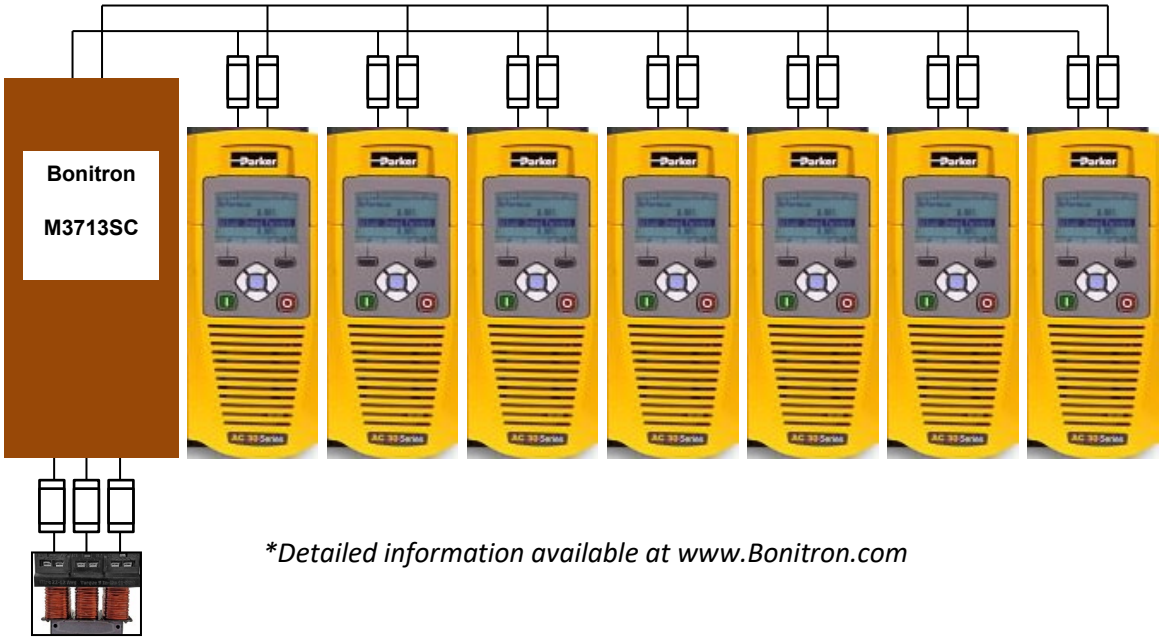
Common-Bussed System with 890CS+890CD Drives

There is no direct replacement available for the following:

- 890CS (common supply module)
- 890CD (common-bussed drive)
- 890AFE (active front end)
- 890CD or SD with a Sin-Cos feedback encoder
- 890CD or SD with a Sin-Cos reference encoder

But there are other solutions…

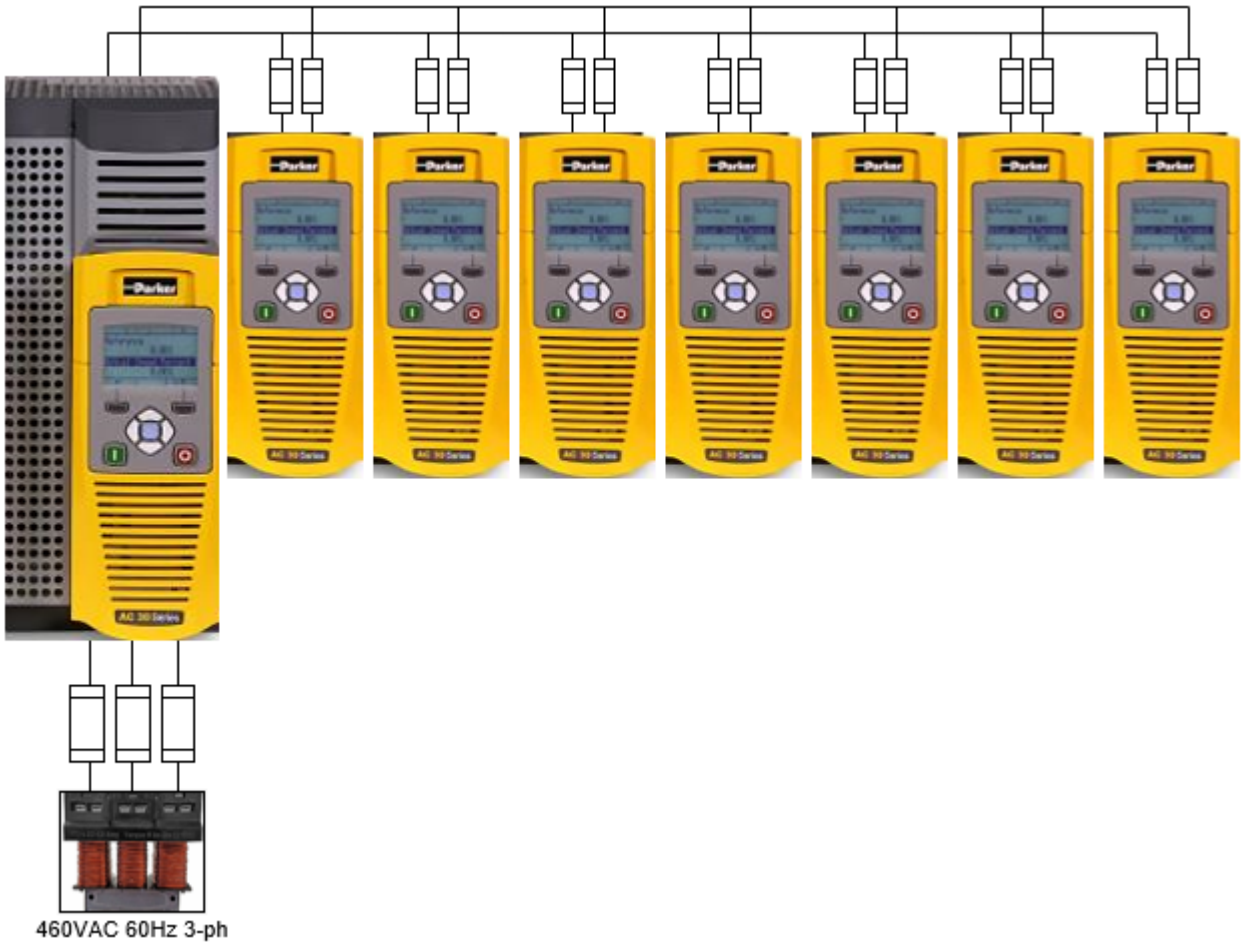
Solution 1: Using a *Bonitron** DC power supply and AC30 drives



**Detailed information available at www.Bonitron.com*

- Use Bonitron DC power supply model M3713SC
- Includes a pre-charge circuit
- 12 and 18 pulse possible by parallelling M3713SCs
- No brake switch in M3713SC
- Use AC30 braking kits on drives if necessary
- Add 750VDC semiconductor fuses for each drive
- LINKnet peer-to-peer instead of Firewire

Solution 2: Using a large AC30 as a power supply and AC30 drives



- Use an appropriately sized AC30 as a power supply, usually by up-sizing the largest drive in the lineup
- Use a braking kit for only the large AC30
- Add 750VDC semiconductor fuses for each drive
- LINKnet peer-to-peer instead of Firewire

Solution 3: Using Bonitron* Regenerative power supply and AC30 drives

**Detailed information available at www.Bonitron.com*

- Use Bonitron model M3545P
- Includes a pre-charge circuit
- Motoring and regenerating capability
- Filtering included/available, but may not meet IEEE 519 harmonic recommendation
- Add 750VDC semiconductor fuses for each drive
- LINKnet peer-to-peer instead of Firewire

Solution 4: Replace 890CD drive with AC30 and add DC fuses

- Use an appropriate AC30 drive
- Connect with wires to the 890CS module
- Add DC fuses as shown

For a Firewire system

- Replace all Firewire boards with LINKnet boards
- AC30 has LINKnet built-in
- Configure the AC30 identically to the failed 890CD
- No need to reconfigure the existing 890CDs

For a PLC-controlled system

- AC30 has Modbus TCP and EtherNet/IP built-in
- Configure the AC30 identically to the failed 890CD
- No need to reconfigure the existing 890CDs

Please refer to bulletin SD2047 for a full description of this obsolescence.

Please direct all customer service inquiries to:
Email: emn.service@support.parker.com
Phone: 1-800-358-9070

About Parker Electronic Motion and Controls Division
A division of Parker Hannifin Corporation's Motion Systems Group, EMC is a pioneer, developer, and manufacturer of full-spectrum computer-based motion controllers, servo/step motor drives, AC & DC drives, human-machine interfaces, & positioning systems. These products automate the manufacturing of a large portion of the world's goods and services. Electromechanical Automation products are sold via independent authorized Automation Technology Centers—a group of nearly 100 professional, highly trained organizations with more than 135 points-of-presence throughout the world.

About Parker Hannifin
Parker Hannifin is a Fortune 250 global leader in motion and control technologies. For more than a century the company has been enabling engineering breakthroughs that lead to a better tomorrow. Learn more at www.parker.com or @parkerhannifin.