



Technical Bulletin

Information for Customers Operating & Maintaining Belvac Machines

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Standard Modular 595K/SK Bus System

The Belvac standard 595 Modular Necker electrical control system is the AS-interface bus (ASi). (See *Belvac Technical Bulletin Issue 06, Volume 3 of September 2000, "AS-Interface Bus Control."*)

The electrical control system for the 595 Modular Necker is comprised of junction boxes mounted on the machine infeed, discharge, and rear of each module. Each Junction box has two 17-pin circular military style connectors, terminals, and ASi modules. Junction boxes are interconnected using 17-pin quick connect cables. This system is called the Belvac Bus System.

The ASi network is a widely used industrial control network for sensor and actuator applications. There are many manufacturers that make ASi master and gateway modules. An ASi master module allows a PLC to communicate directly with an ASi network, while the ASi gateway allows another network such as "DeviceNet" to use the ASi network as remote I/O.

Belvac's standard PLC for the Bus System is the Allen-Bradley SLC 5/04 with an ASi master located in the chassis.

The following tables outline control methods that are compatible with Belvac's Bus system. These tables are intended as a guide for customers who choose to build their own control panels.

Programmable controllers available with AS-I master control modules

<i>PLC series</i>	<i>ASi master module</i>
Allen-Bradley SLC 5/03 or higher	SST ASi SLC 2 channel ASi master scanner module
Siemens S7-300 Series PLC	Siemens CP343-2 1 channel ASi master scanner module
Siemens S5-115U, 135U & 155U PLC	Siemens CP2430 2 channel ASi master scanner module

Programmable controllers available with DeviceNet Scanner modules

<i>PLC series</i>	<i>DeviceNet master module</i>	<i>ASi Gateway</i>
Allen-Bradley PLC 5 Series PLC	Allen-Bradley 1771-SDN DeviceNet scanner module	Pepperl & Fuchs VAG-DN-KV DeviceNet to ASi Gateway
Omron CS1 OR C200H Series PLC	Omron C200HW-DRM21-V1 DeviceNet scanner module	Pepperl & Fuchs VAG-DN-KV DeviceNet to ASi Gateway

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Programmable controllers available with Interbus Scanner modules

<i>PLC series</i>	<i>Interbus master module</i>	<i>ASi Gateway</i>
Mitsubishi Melsec A Series PLC	Phoenix Contact IBS MEA SC SYSKIT E Interbus Scanner Module	Phoenix Contact IB ST ASi DIO Interbus to ASi Gateway
GE 90-70 Series PLC	Phoenix Contact IBS GE 90-70 SC SYSKIT E Interbus Scanner Module	Phoenix Contact IB ST ASi DIO Interbus to ASi Gateway

Other Networks ASi Gateways are available for

Profibus Network
Modbus Network (Modicon)
Modbus Plus Network (Modicon)

Contact Belvac Sales or Service Representatives for ordering information.

All Technical Bulletins may be viewed on Belvac's web site, www.belvac.com.