MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

GE 90-30 SERIES PLC

IC693ALG223

16-CHANNEL ANALOG CURRENT INPUT MODULE

Used with the applicable Series 90-30 analog I/O configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: GE official manufacturer documentation

Table 7-4. Series 90-30 Analog I/O Modules

Catalog Number	Channels	Description
		Analog Modules
IC693ALG220	4	Analog Input, Voltage
IC693ALG221	4	Analog Input, Current
IC693ALG222	16	Analog Input, Voltage, High Density
IC693ALG223	16	Analog Input, Current, High Density
IC693ALG390	2	Analog Output, Voltage
IC693ALG391	2	Analog Output, Current
IC693ALG392	8	Analog Output, Current/Voltage, High Density
IC693ALG442	4 In/2 Out	Analog Current/Voltage Combination Input/Output

Calculating Power Supply Loading

The load placed on a power supply in a Series 90-30 PLC baseplate is the sum of the internal and external loads placed on it by all of the hardware components in the baseplate (backplane, modules, etc.), as well as external loads connected to the Isolated + 24 VDC supply. Use of the Isolated +24 Volt power supply output is optional; however, this output can be used to drive a limited number of input devices. The maximum total power output rating of the Power Supplies is 30 watts; however, the individual +5VDC outputs can be rated for either 15 or 30 Watts, depending on the Power Supply catalog number. See Table 12-1, "Power Supply Feature Comparison Table," for details.

Load Requirements for Hardware Components

The following table shows the DC load required by each module and hardware component. All ratings are in milliamps (except where noted). Input and Output module current ratings are with all inputs or outputs on. Three voltages are listed in the table:

- +5 VDC provides primary power to operate most internal circuits
- +24 VDC Relay Power provides power for circuits that drive the relays on Relay modules
- +24 VDC Isolated provides power to operate a number of input circuits (input modules only), and any external circuits connected to the 24 VDC Output terminals on the power supply terminal strip.

Note that the figures listed in the following table are maximum (worst case) requirements , not typical requirements.

Table 12-3. Load Requirements (in milliamps)

Catalog Number	Description	+5 VDC	+24 VDC Relay Power	+24 VDC Isolated
AD693SLP300	State Logic Processor Module	425	–	–
IC693ACC300	Input Simulator, 8/16 Points	120	–	–
IC693ACC307	Expansion Bus Termination Plug	72	–	–
IC690ACC900	RS-422/RS-485 to RS-232 Converter	170	–	–
IC690ACC901	RS-422 (SNP) to RS-232, Miniconverter Kit (Version A) (version B, or later)	150 100	– –	– –
IC693ADC311	Alphanumeric Display Coprocessor Module	400	–	–
IC693ALG220	Analog Input, Voltage, 4 Channel	27	–	98
IC693ALG221	Analog Input, Current, 4 Channel	25	–	100
IC693ALG222	Analog Input, Voltage, High Density (16 Channel)	112		41
IC693ALG223	Analog Input, Current, High Density (16 Channel)	120	–	–
IC693ALG390	Analog Output, Voltage, 2 Channel	32	–	120
IC693ALG391	Analog Output, Current, 2 Channel	30	–	215
IC693ALG392	Analog Current/Voltage Output, 8 Channel	110	–	
IC693ALG442	Analog Current/Voltage Combination 4 Ch In/2 Ch Out	95	–	129
IC693APU300	High Speed Counter	250	–	–
IC693APU301	Motion Mate APM300, 1-Axis	800	–	–
IC693APU302	Motion Mate APM300, 2-Axis	800	–	–
IC693APU305	I/O Processor Module	360	–	–