ABB ABB Series Service Manual

07 KT 96

1. Description

ABB 07 KT 96 Advant Controller Basic Unit

3. Product Information

ABB 07 KT 96 Advant Controller Basic Unit

Digital I/O: 24 Digital Inputs and 16 Digital Outputs.

Terminals 20 to 27: Assigned to E 63,00 to E 63,07.

Analog I/O: No analog inputs or outputs provided for this unit.

Performance: Processing time is typically 0.3 ms for 1 kB of program (65% bits, 35% words).

Order Number: GJR5 2529 00 R

Communication: Includes CS 31 Field bus.

Memory:

Program Memory: 480 kByte Flash EPROM and RAM.

Plug-in Memory: Smart Media Card (flash) used for data storage and reloading the SPS-program.

Data Memory: 8192 bits, 8192 words (16 bit), and 1024 double words (32 bit).

Variables: 256 k Variables (all output variables, binary or analogue), including 16 k RETAIN variables.

Performance: Cycle time for 1 Kbyte (65% binary values and 35% words) is 0.22 ms.

Inputs/Outputs:

Integral DI/DO: 24 Digital Inputs and 14 Digital Outputs.

Maximum DI/DO: 1032 in total.

Integral AI/AO: 4 Analogue Inputs and 8 Analogue Outputs.

Maximum AI/AO: 224 Analogue Inputs and 224 Analogue Outputs.

Execution & Control:

Programming System: 907AC1131.

Program Execution: Cyclic, time-controlled Multitasking (up to 20 Tasks).

Logic Components: Unrestricted Timers and Counters; 256 Sequencers (of 16 sequences).

Fast Counters: 1 to 2 (various operating modes, max. 50 kHz).

Special Functions: MODBUS® protocols, PI and PID controllers, ASCII communication, 32 Bit arithmetic, and Floating Point Arithmetic.

Hardware Details:

Protection: User program protected by password.

Data Buffer: Exchangeable battery.

Real-time Clock: Included.

Connections: Withdrawable terminal blocks with screw terminals.

Mounting: Compatible with or without DIN rail.