

PACKAGE ID - 001048IBMPC00 AF-500+DRIVER

KWIC TITLE - Eaton AF5000+Genesis Communication Driver

AUTHORS - Eldridge, K.
CalMax, Inc, Spokane, WA (United States)

LIMITATION CODE -COPY **AUDIENCE CODE** - LIM

COMPLETION DATE - 05/12/1993 **PUBLICATION DATE** - 05/12/1993

DESCRIPTION - Communication driver allows the Genesis Control Series software to interact with Eaton AF5000+ frequency drives via RS-232 communications. All Eaton AF5000+ parameters that support communications are supported by the Genesis driver. Multidrop addressing to multiple units is available with the Genesis communication driver.

PACKAGE CONTENTS - Media Directory; Software Abstract; User's Guide; Media Includes Source Code;

SOURCE CODE INCLUDED? - Yes

MEDIA QUANTITY - 1 3.5 Diskette

METHOD OF SOLUTION - AF5000+ communication strings are processed for error checking using custom C routines. Iconics standard communication routines were modified to handle special multidrop addressing units. Requests are made to the AF5000+ units and the responses are processed to update data values or report error messages.

COMPUTER - IBM PC

OPERATING SYSTEMS - Software driver compiled with Microsoft V5.1 C Compiler with the large library model. Iconics Driver Dev Kit Lib model V3.51 that supports EMS also linked to driver. Genesis Control Series utilizes an AMX shell of DOS that is a multitasking environm.

PROGRAMMING LANGUAGES - Microsoft C Compiler version 5.1 w/Iconics Driver Development Kit library header files.

SOFTWARE LIMITATIONS - To implement driver with Genesis software, a graphic configuration environment is used to select points for communications. Driver files must be copied into the directory where the Genesis system files reside.

SOURCE CODE AVAILABLE (Y/N) - Y

UNIQUE FEATURES - Allows Genesis Series software to communicate with AF5000+ frequency drives. Genesis is a multitasking and prioritized cotrol control software system.

PACKAGE ID - 001048IBMPC00 AF-500+DRIVER

RELATED SOFTWARE - Genesis Control Series software developed by Iconics must be operating for AF5000+ Genesis driver routine to operate.

OTHER PROG/OPER SYS INFO - To implement driver with Genesis software, a graphic configuration environment is used to select points for communications. Driver files must be copied into the directory where the Genesis system files reside.

HARDWARE REQS - Genesis Control Series software AF5000+ communication driver can run with in 640k of conventional memory. The driver will load high is EMS is available. Genesis can operate on a 286 PC with a math coprocessor and an EGA monitor. A RS-232 communication port must be available on the PC for communications to the frequency drivers.

TIME REQUIREMENTS - Communications is through an RS-232 link at 19200 baud. The speed of communication update depends on the number of parameters enabled for communications. Communication time could be between 0.5 to 3.0 seconds per unit.

ABSTRACT STATUS - Released AS-IS 7/31/95.

SUBJECT CLASS CODE - P

KEYWORDS -

COMPUTER PROGRAM DOCUMENTATION
A CODES
COMMUNICATIONS
EXECUTIVE CODES

EDB SUBJECT CATEGORIES -
990200

SPONSOR - DOE/RW

PACKAGE TYPE - AS - IS