Product note
Compact PLC and AC drive kit enables out of box motor control in minutes - The perfect team

Machine builders can benefit from ABB’s programmable logic controller (PLC) and AC drive kit that enables out-of-box motor control in minutes.

This compact, yet powerful kit, comes with ready-made programming and accessories targeting small-scale machines and systems requiring PLC control with up to seven drives. The performance of the package is easily extended using the AC500 PLC platform and a wide range of low voltage AC drives.

**Easy ordering and fast startup**
Providing PLC, AC drive and accessories as a package simplifies ordering and provides quick deliveries.

A starter kit containing an AC500-eCo PLC and ABB machinery drive, ACS355 (0.37 kW), is available for testing and application programming. The kit contains ready-made programming using a function block library, user documentation and all the needed accessories needed to enable motor startup in minutes.

Flexible packages with AC500 PLC and ACS355 drive are available for re-ordering from ABB’s central stock.

**Compact design saves installation space**
The compact size of the PLC and drive provides flexibility when integrating into existing or new system designs.

AC500-eCo is an economical, entry level PLC for standalone solutions and equipment control. It saves space due to onboard digital and analog I/O. AC500-eCo is easy to program and provides six programming languages.

ABB machinery drives provide speed and torque control for a wide range of applications. The compact design contains features such as safe torque-off functionality and built-in brake chopper. The safe torque-off functionality meets the latest machine safety standards.

**Flexible system expansion**
When the system requirements expand, ABB’s wide product range provides a flexible and cost-efficient way to meet the system’s growing needs.

AC500-eCo belongs to the AC500 PLC platform. AC500 is a scalable and modular platform which can be combined and flexibly expanded to suit either decentralized or centralized configurations. Control Builder, the programming tool for
AC500, is based on CoDeSys. CoDeSys is a non-proprietary programming environment according to IEC 61131-3 standard. Control Builder is used for the entire AC500 platform, which enables an application program to be copied from AC500-eCo to an AC500 PLC capable of handling more control tasks. Ready-made communication and control blocks for AC500 PLC range are available, supporting a wide range of ABB’s low voltage AC drives.

Benefits of the kit
- Easy ordering of PLC, AC drive and accessories as a kit from ABB’s central stock
- Control of a motor in minutes from opening the starter kit
- Entry-level PLC and AC drive kit for learning the Control Builder programming environment
- Pre-engineered starter kit enables quick focus on customer’s application
- Ready-made visualizations for application testing
- Cost-efficient system expansion, as the same application program can be used for the entire AC500 PLC platform

Figure 1. ABB’s starter kit with AC500-eCo, ACS355 drive and accessories enables motor control in minutes from opening the box.

Figure 2. Ready-made programming with function blocks help cut time from design and commissioning of applications.

Figure 3. Ready-made visualizations enable easy application testing.

For more information contact your local ABB representative or visit:
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