

Overview

The 1394 System

The 1394 is a modular, multi-axis motion control and drive system family. Its unique design allows the 1394 to be used as an integrated motion controller and drive system (GMC) with Turbo or standard IMC™ S Class Compact functionality, an integrated 9/440 CNC system, a 9/Series CNC digital interface drive system, a SERCOS servo drive system, or an analog servo drive system.

All 1394 systems provide direct line connection (transformerless) for 360 and 480V three-phase input power, efficient IGBT power conversion, and slide-and-lock, module-to-module connection systems. Each system module can be configured with up to four axis modules, with each axis module interfacing to a motor. The 1394 provides significant panel space and interconnect savings.

Series Note

Series C system modules (catalog numbers 1394C-SJTxx-x) and axis modules (catalog numbers 1394C-AMxx and -AMxx-IH) include features not available on Series A and B modules (catalog numbers 1394-SJTxx-x and 1394-AMxx).

System Module Features:	Feature Availability	
	Series C	Series A and B
Connector (plug-in) input power termination	Yes	No
Cable Clamp (strain relief, shield bond)	Yes	No
EMI filter (24V input power, registration)	Yes	No
Smart Power (Soft Start, power monitor)	Yes	22 kW systems only

Axis Module Features:	Feature Availability	
	Series C	Series A and B
Cable Clamp (strain relief, shield bond)	Yes	No
EMI filter (motor brake and thermal circuit)	Yes	No

Series C system modules are interchangeable with Series A and B. Likewise, Series A, B, and C axis modules are interchangeable with each other.

Series C is recommended for all new applications. See the tables above for feature availability. For help in determining the series of your module(s), refer to the section *Module Series Designator* in the *Preface*.