

Specifications

Preliminary data	C-884.4DC	C-884.6DC
Function	Position control for closed-loop DC motors	
Processor	Dual core architecture. Controller on a DSP core, with extendable command interpreter in an ARM core under Linux	
Axes	4	6
Motion and control		
Servo characteristics	PID controller, parameter changing during operation	
Servo cycle time	100 µs	
Profile generator	Trapezoid velocity profile	
Encoder input	A/B quadrature (TTL differential according to RS-422), 50 MHz; BiSS interface	
Stall detection	Servo off, triggered by programmable position error	
Limit switches	2 × TTL per axis (programmable polarity)	
Reference point switch	1 × TTL per axis	
Motor brake	1 × TTL per axis, can be switched per software	
Electrical properties		
Max. output voltage*	24 V	
Max. output power	240 W	
Current limitation	2.5 A per axis	
Interfaces and operation		
Interface / communication	TCP/IP: RJ45/Ethernet USB: Mini-USB type B RS-232: Sub-D 9 (m) SPI: DisplayPort	
Motor connector	4 × Sub-D 15 (f)	6 × Sub-D 15 (f)
I/O lines	4 analog in (-10 to 10 V) 4 digital in (5 V TTL) 4 digital out (5 V TTL)	
Command set	PI General Command Set (GCS)	
User software	PIMikroMove, PITerminal	
Software drivers	LabVIEW driver, dynamic libraries for Windows and Linux	
Supported functions	Linear vector motion; point-to-point motion; user-definable trajectories; start-up macro; PI Python; data recorder for recording operating data such as motor voltage, velocity, position or position error	
Manual control	USB interface for HID compliant devices	
Miscellaneous		
Operating voltage	External power supply 24 V / 5 A (120 W) included in scope of delivery	
Max. current consumption	11 A	16 A
Current consumption, no load	500 mA	
Operating temperature range	5 to 50 °C	
Mass	1.6 kg	

Preliminary data	C-884.4DC	C-884.6DC
Dimensions	312 mm × 153.4 mm × 59.2 mm (incl. mounting rails)	

* The output voltage depends on the connected power supply.

Scope of Delivery

Scope of delivery includes wide-range-input power supply with adapter, USB and RS-232 cable, network cable

Ordering Information

C-884.4DC

Motion Controllers for DC Motors and Brushless DC Motors, 4 Axes

C-884.6DC

Motion Controllers for DC Motors and Brushless DC Motors, 6 Axes