MiniMACS Data

Programmable Motion Controller



MiniMACS

The MiniMACS controllers are fully programmable Motion Controllers. They are suitable for less complex applications that still require compact dimensions.

	dimensions.
Controller versions	
Controller versions	CANopen Master/Slave, Standalone with APOSS® win
Features	
Motion features	Trapezoidal, jerk limited, CAM, synchronous travel
Profile generator cycle	1 kHz (1 ms)
Sampling rate of PID positioning controller with speed and acceleration feed-forward control	1 kHz (1ms)
Maximum number of axes	3
Web server (visualization)	-
Expandable memory	-
Electrical data	
Logic supply voltage V _C	18 - 30 VDC
Inputs	
Digital inputs	16 (PLC level)
Analog inputs	6 (12-bit resolution, 010 V); alternative analog option IO1 or IO2 (see MACS5)
Hall sensor signals	-
CAN-ID (CAN node identification)	configurable with DIP switch
Output	
Digital output	14 (max. 100 mA per output)
Analog output	option IO1
Configurable with DIP switch	+5 VDC, max. 200 mA
Interfaces	
Profinet	-
CAN	1 high; low (max. 1 Mbit/s)
RS232 / RS485	-
EtherCAT-Master / EtherCAT-Slave	-
Ethernet	1
USB 2.0	1 Data+; Data- (Full Speed)
Encoder inputs	1
Digital incremental	1 (differential, max. 5 MHz)
Hiperface/Endat	-
Encoder outputs	
Encoder TTL outputs	-
Indicator	
LEDs	37 (status, USB, IO)
Display	-
Environmental conditions	
Temperatrue - Operation	0+40°C
Temperature - Storage	-20+85°C
Humidity (condensation not permitted)	2080%
Mechanical data	
Weight	500 / 300 g (DIN/compact housing)
Dimensions (L x W x H)	108 x 108 x 67 / 116 (98) x 98 x 42 mm
Mounting	DIN mounting / compact housing
Ordering Information: Please contact your maxe	on sales engineer

«There is no drive challenge that can't be solved»

Benefit from our expertise in control solutions for state-of-the-art drive technology in devices, machinery, and systems. With our products, complex challenges like highly dynamic multi-axis positioning or synchronization can be solved in a cost-effective and efficient manner. Our use of the licensefree APOSS® motion control programming language provides the versatility required to adapt our controllers perfectly to your needs.

In addition to standard products, we also offer the development of OEM custom solutions in the field of control technology and power electronics, as well as consulting and engineering services. Cost-optimized solutions and applicationspecific custom functions.

September 2020 edition / subject to change motion control 507