Specifications

MODELS

Code	Power supply	Maximal output current		
M5A	24 ÷ 60 Vdc	6.0 Arms		
DCM	12 ÷ 24 Vdc	0.5 Arms		

POWER STAGE

40kHz, bipolar chopper H-Bridge

- # 3 5 Vdc NPN, PNP or line driver digital inputs (300 kHz)
- # 1 analog input
- # 1 analog output

CONTROL INTERFACE

RS485 or I²C

OUTPUTS

1 digital output 24 Vdc - 100 mA

STEP RESOLUTION

Step type	Steps per rev.	Degrees per step
Passo pieno	200	1.8°
1/2	400	0.9°
1/4	800	0.45°
1/8	1600	0.225°
1/16	3200	0.1125°
1/32	6400	0.05625°
1/64	12800 0.028125°	
1/128	25600	0.0140625°

SAFETY PROTECTIONS

Over/Under Voltage, Over Current, Over Temperature

DRIVE STATUS MONITORING

Power LED and failure status LED

TEMPERATURE

Working: from 0°C to 50°C; storage from 0°C to 55°C

HUMIDITY

Full Digital Drives for 2 phase stepper motors for Litch Performances at Low Costs



M5A & DCM **SlimLine Drives**

- Equipped with Advanced Safety Devices:
 - √ tested for direct unit installation
 - √ failures monitoring and handling
- Main Drive's characteristics:

√ low motor vibrations

√ compact dimensions

√ low mechanical noise

√ no motor resonance

√ low heat production

√ high reliability

√ excellent EMC properties

√ easy to set-up

√ safety protections

√ high speed and torque drive

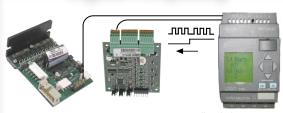
the clever drive

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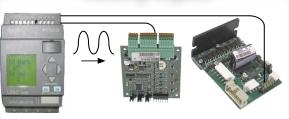
Digital Frequency



Controllore di altri costruttori

The motor speed and position are controlled by a master (axis board or PLC) via digital frequency in either clock up/ clock down or clock & direction mode.

Analog Signal



Controllore di altri costruttori

The position or the motor rotation speed is controlled by an analog signal generated by a PLC or a potentiometer. In this mode, using an analog sensor to read the motor angular position, it's possible to make absolute positions in a simple and economical.

Modbus Slave



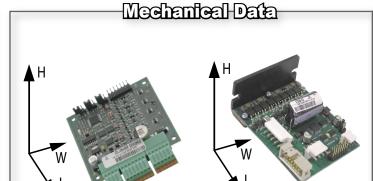
Through the serial interface is possible to control the motor position, rotation speed and control all the hardware resources of which this 'open frame' drives are equipped. For example, it is possible a check of the digital or analog I/O, or monitor the drive operating status.

PG Softwere Configuration

SL-Monitor Configuration environment for SlimLine drives

Main features:

- Software tool to configure the M5A and DCM SlimLine drives with serial interface.
- Intuitive and complete screens to configure the application parameters.
- Functions and tools to set the *Advanced Motion* Module.
- Functionality to update the drives' firmware.
- Complete with software tools to debug in a simple and fast way the created application.



Models	Dimensions (mm) H L W			Weight (g.)	
M5A	26.0	85.0	70.0	250	
DCM	14.0	67.0	63.0	250	

Ordering Information for M5/A and DCM

Ordering code Power		System Resources						
Versions	Configuration	Power Supply	Current	Digital Inputs	Analog Inputs	Digital Outputs	Analog Outputs	Fieldbus
				M5A Drives				
M5Av10	c0400	24 ÷ 60 Vdc	0 ÷ 4.3 Arms (0 ÷ 6.0 A peak)	3 5Vdc 300 kHz configurable as NPN	1 (0 ÷ 3 Vdc)		1	RS485 Modbus
M5Av11	c0400	24 ÷ 60 Vdc	0 ÷ 4.3 Arms (0 ÷ 6.0 A peak)	4 5Vdc 300 kHz configurable as NPN	/		1	RS485 Modbus
M5Av12	c0414	24 ÷ 60 Vdc	0 ÷ 4.3 Arms (0 ÷ 6.0 A peak)	3 5Vdc 300 kHz configurable as NPN	1 (0 ÷ 5 Vdc)		1	RS485 Modbus
DCM Drives								
DCMv00	c0400	12 ÷ 24 Vdc	0 ÷ 0.5 Arms (0 ÷ 0.7 A peak)	3 5Vdc 300 kHz configurable as NPN or PNP	1 (0 ÷ 10 Vdc)	1 5 Vdc NPN transistor output for Fault	0	RS232 Modbus