



Motor Driver

STM-G02

4 axes Step Motor with CanBus



Single solution

Rack solution

4 axes step motor represents ideal high tech low cost solution for industrial application designer which wants the modularity of the motor driver.

FEATURES

- Low cost.
- Bipolar chopper drive with microstepping facility.
- Programmable step angle from 200 ppr (Full Step) up to 1600 ppr (1/8).
- Single power supply required.
- 2 optocoupled input.
- Standard input = Positive active.
- Protection :
 - ✓ Max. bus voltage.
 - ✓ Short circuit (motor).
 - ✓ Max. Temperature (electronic).
- Communication link CanBus with 127 addressing unit.
- CanOpen protocol to set and control point to point or multiple units.
- Standard parameters set via CanBus:
 - ✓ Working current
 - ✓ Stand-by current
 - ✓ Speed
 - ✓ Acceleration
 - ✓ Deceleration
 - ✓ Motion profile (trapezoidal)
 - ✓ IN functions
 - ✓ automatic current reduction
- Special resident functions
 - ✓ Homing
- EMI compliant.

GENERAL SPECIFICATIONS

Power Input voltage (+V)

Range..... +24 to +36 VDC

I/O

2 opto-coupled low speed digital inputs..... 5 KHz

Voltage range..... 0 to +24 VDC

Communication

Link..... CanBus

Protocol..... CanOpen

Baud Rate CanBus..... up to 1 Mb

Motion

Microstep resolution (open loop)..... up to 1600 step/rev.

Protection

Over voltage..... 36 VDC

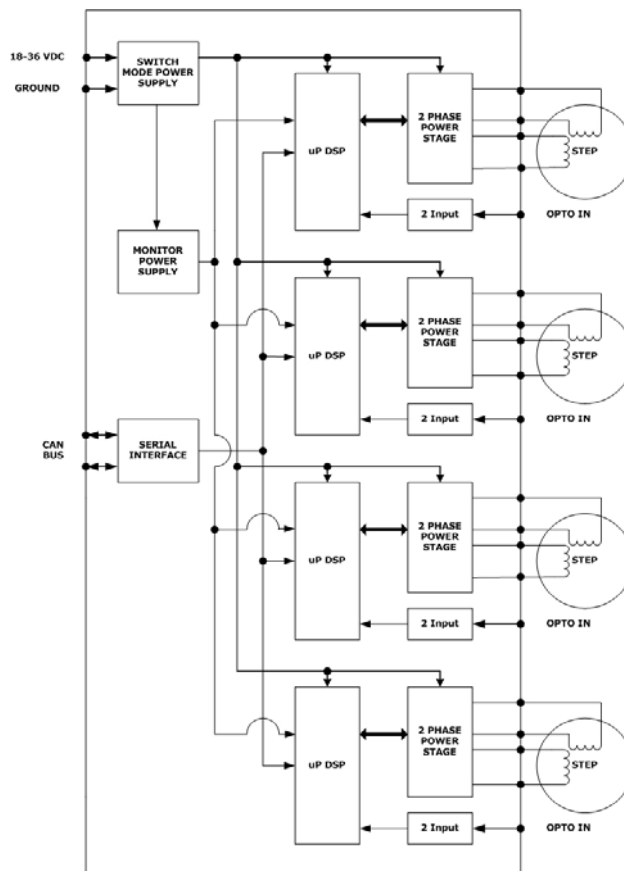
Temperature..... 85°C

Motor fase short circuit.....

Thermal consideration

Working temperature depends on the thermal exchange between driver plate and mounting plate. For more information contact manufacturer.

BLOCK DIAGRAM



DRIVER SPECIFICATIONS

	MIN.	Nom.	MAX.	
Input Voltage (+)	18	24-36	40	Vdc
Input Voltage (-)		0		Vdc
Current for each motor			3	A _{pk}

Table 1/1

Single power supply required, logic supply internal generated.

Not stabilized DC power supply required with min. 220uF 100V capacitor per unit.

Standard drive Input is positive logic (active high).
Provided for two input voltage.

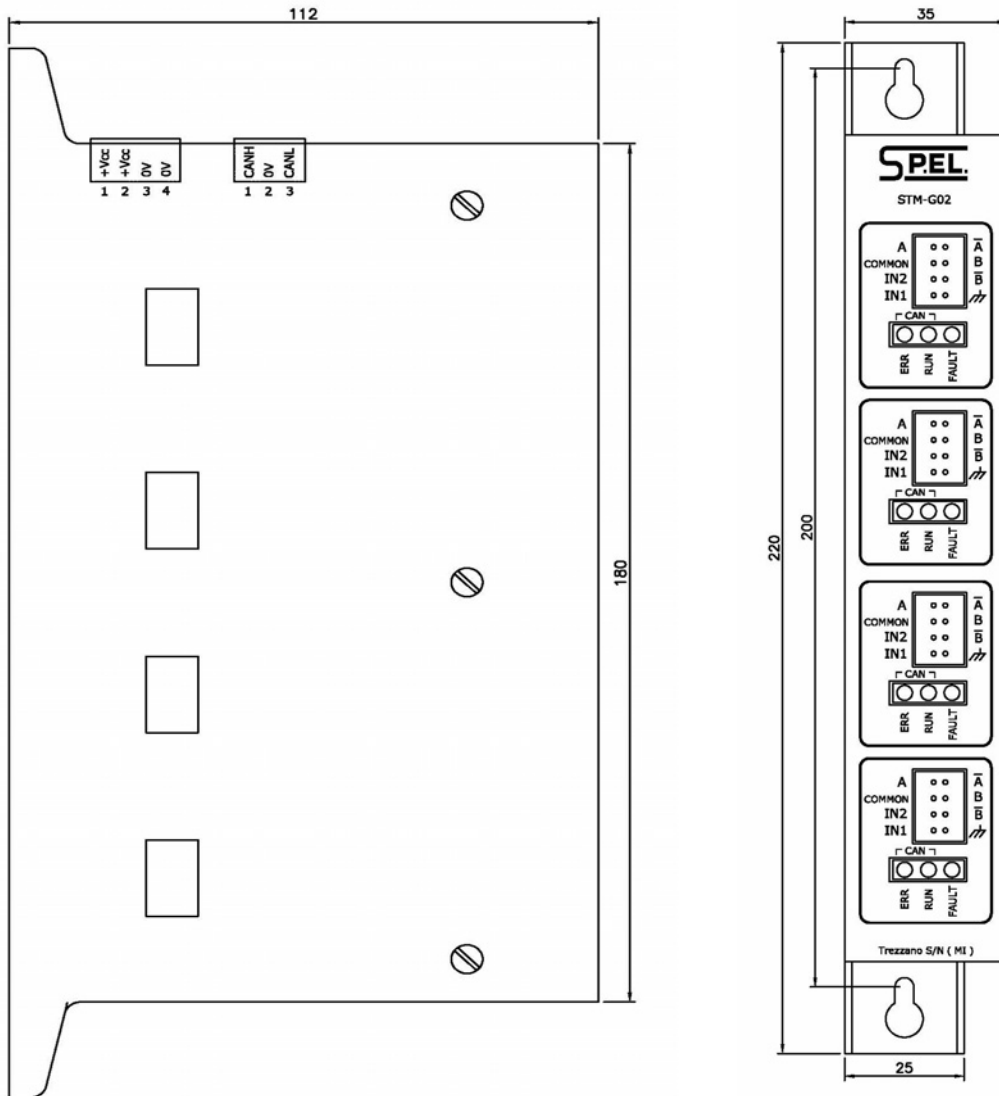
DIGITAL INPUT (All range)

		Unit	Min.	Nom.	Max
Volt high	5 V logic (*)	Vdc	4,5	5	12
	24 V logic	Vdc	20	24	28
Current high		mA	-	1,5	-
Frequency		Khz	-	-	5

Table 1/2

(*) On request

MECHANICAL DIMENSIONS



N.B. Misures are in millimeters.

ORDERING INFORMATION

Ordering code : STM - G02

N.B.

SP.EL. reserves the right to make changes without further notice to any products herein.