

HGD Series Drives



INTRODUCTION

- Series of ministepped bipolar chopper drives, suitable for driving medium power two-phase stepping motors, with four, six or eight terminals.
- Highly compact (70×70×25 mm), easy to use and cost effective solution. This system is designed to be soldered to a PCB.
- Target: medium and medium-low power applications requiring increase in performance compared to self-built or integrated circuits combined with an improvement of reliability and durability.

HIGHLIGHTS

- Microstepping function up to 3.200 step/rev.
- Separated solder type connectors for logic signals and power connections.
- Electronic damping facility for further acoustic noise and mechanic vibrations reduction at low and medium speed.
- Standard input and output signals ease interfacing with the most commonly used control systems and ensure high noise immunity.

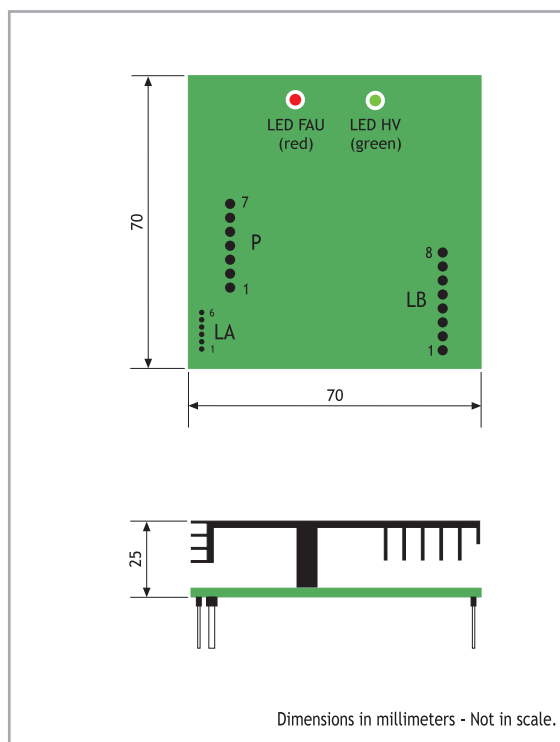
| Series | Model | V _{DC} range (Volt) | I _{NP} min. (Peak value) (Amp) | I _{NP} max. (Peak value) (Amp) | Dimensions (mm) |
|--------|-------|---------------------------------|---|---|--------------------|
| HGD | 02 | 24 to 75 | 0.75 | 2.0 | 70x70x25 |
| HGD | 05 | 24 to 75 | 2.25 | 6.0 | 70x70x25 |

TECHNICAL FEATURES

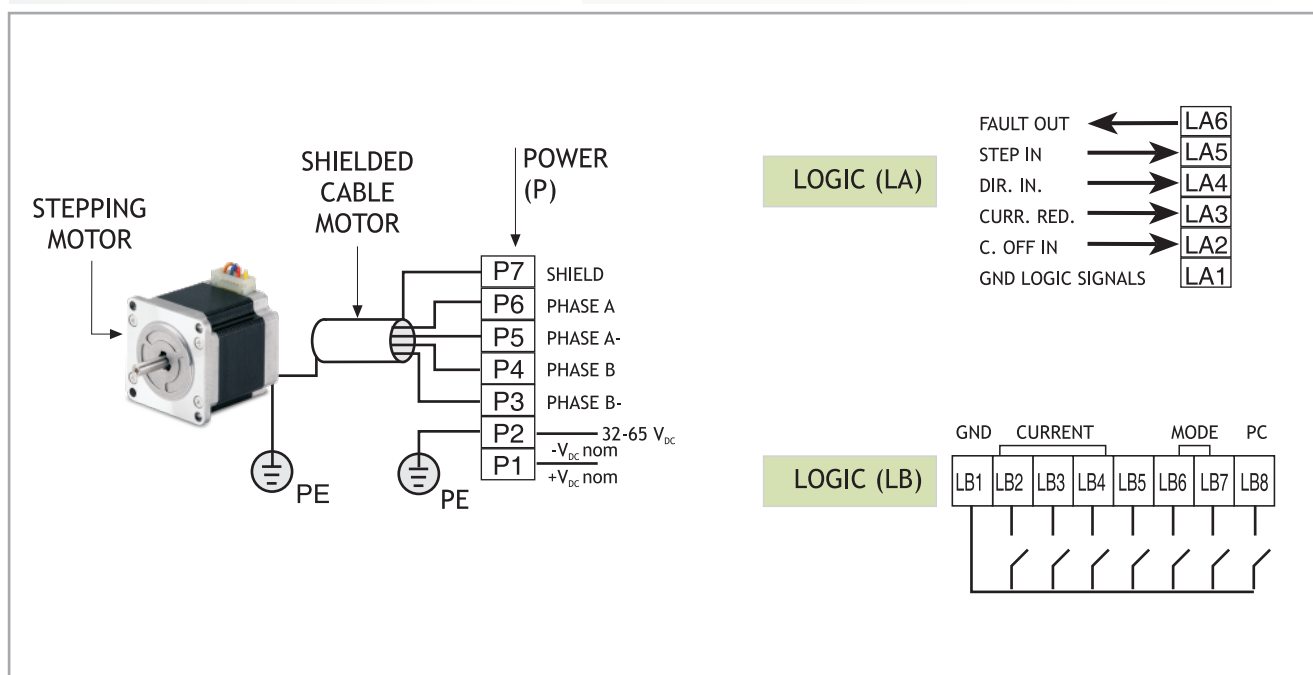
- Range of operating voltages: 24-75 V_{DC}.
Operation with a single external supply voltage.
- Range of current: 0.75-6.0 Amp. Setting up to six possible values by means of hardware connections.
- Microstepping: 400, 800, 1.600 and 3.200 steps /revolution. Setting by means of hardware connections.
- Automatic current reduction at motor standstill.
- Protections:
 - Protection against under-voltage and over-voltage.
 - Protection against a short-circuit at motor outputs.
 - Overtemperature protection.
- Possibility to reduce motor current with an external logic signal.
- High efficiency CHOPPER with MOSFET final stage output.
- Electronic damping facility for further acoustic noise and mechanic vibrations reduction at low and medium speed.
- Warranty: 24 months.



MECHANICAL DIMENSIONS



POWER AND LOGIC CONNECTIONS



© R.T.A. s.r.l. PAVIA (Italy) CAE - 06 - 14



R.T.A. s.r.l.
Via E. Mattei - Fraz. Divisa
27020 MARCIGNAGO (PV) ITALY
Tel. +39.0382.929.855 - Fax +39.0382.929.150
www.rta.it

R.T.A. Deutschland GmbH
Bublitz Straße 34
40599 DÜSSELDORF (Germany)
Tel. +49.211.749.668.60 - Fax +49.211.749.668.66
www.rta-deutschland.de

R.T.A. IBERICA-Motion Control Systems S.L.
C/Generalitat 22, 1º 3º
08850 GAVA - BARCELONA (Spain)
Tel. +34.936.388.805 - Fax +34.936.334.595
www.rta-iberica.es