GMD Series Drives

GENERAL DESCRIPTION

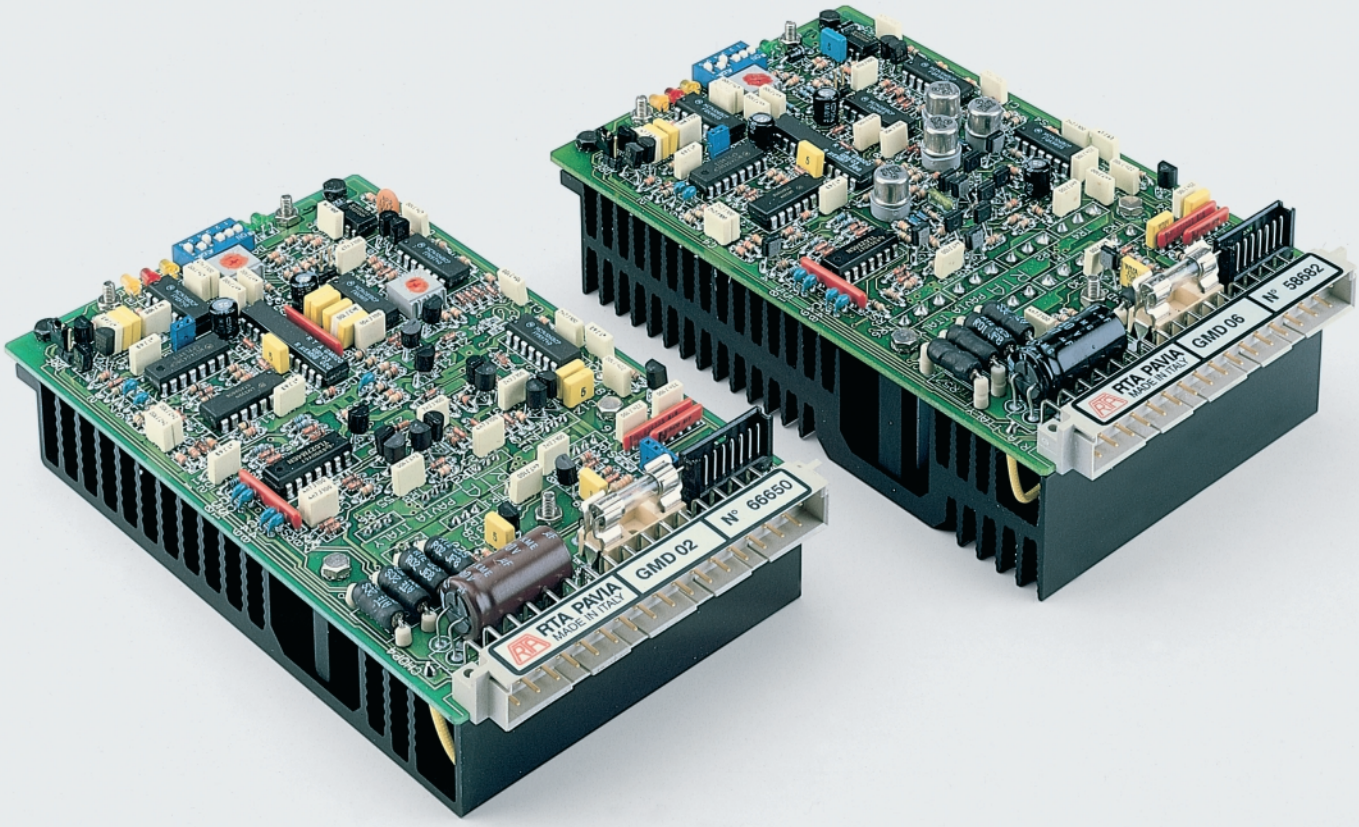
GMD is the name of a series of bipolar chopper drives, suitable for driving two-phase stepping motors, with four, six or eight terminals.

GMD drives are realized in single EUROPA format cards (100 x 160 mm.) and are equipped with a 32 pole, DIN 41612 form D connector. They are therefore designed to be assembled inside a RACK, complete with motherboard, that could be possibly supplied as an option by R.T.A.

R.T.A. experience, together with a careful design for these specific purposes, has led to a very reliable component, easy to use, with a competitive cost and offering best performances.

The wide range of current and voltage values permits to optimize the use of ***GMD*** series drives, with every model of stepping motor, in a great variety of applications.

Particular care has been dedicated also to obtain top performance and low power losses for both the card and the motor, limiting the need for forced ventilation, while the standard input and output signals facilitate the interface with the most common control systems.



RTA Motion Control Systems

TECHNICAL FEATURES

- Operation at 200, 400 or 800 steps/revolution.
- Motor phase current setting by means of a DIP-SWITCH. Up to eight possible equidistant values between **I_{NF} min.** and **I_{NF} max.** can be set.
- Automatic current reduction at motor standstill.
- Possibility to switch off motor current with an external logic signal.
- Protection against a short circuit at motor outputs.
- Protection against under-voltage and over-voltage.
- Overheating protection.
- Operation with a single external power supply.
- High efficiency CHOPPER with MOSFET final stage output.
- Electronic resonance damping facility.
- Wide range of possible operating voltages.

Models	V_{DC} range	I_{NF} min.	I_{NF} max.	Dimensions
	(VOLT)	*(AMP)*	*(AMP)*	*(mm.)*
GMD 02	*55 to 85*	*1.6*	*6*	*100x160x45*
GMD 03	*55 to 85*	*4*	*10*	*100x160x45*
GMD 04	*95 to 140*	*5*	*12*	*100x160x51*
GMD 06	*160 to 190*	*5*	*12*	*100x160x51*