SPECIFICATIONS

LOGIC INPUTS (low = 0 -2V, high = 10 -12V or open)
Step
Direction
Current reduction
De energise

LOGIC OUTPUTS *(30V @ 25mA sink open collector)*
Drive fault
Synchronisation
Step out

STEP ANGLE
1.8°, 0.9°, 0.45°

STANDBY CURRENT
automatic at 65%

MOTOR CURRENT
8 settings by DIP switch

RESONANCE DAMPING
full, half, nil

OPERATING TEMPERATURE
0-50°C

TRANSFORMER SIZING
5% regulation
Power(VA) = V_{supply} [I_{drive} + 1.0]

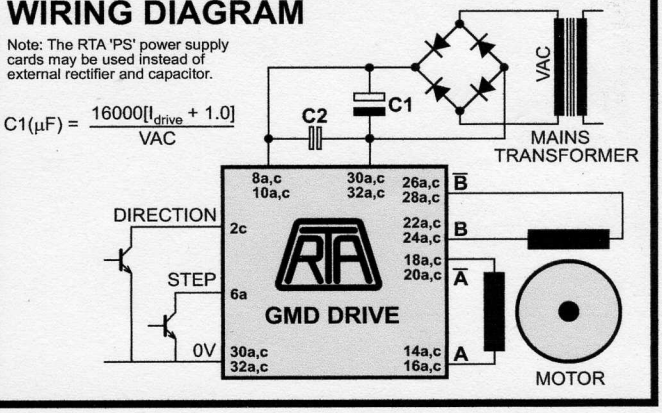
WEIGHT
0.6kg.

SPECIFICATIONS	GMD02	GMD03	GMD04	GMD06
POWER SUPPLY CARD	PS03	PS03	PS04	PS06
SUPPLY RANGE (VDC)	55 - 85	55 - 85	95 - 140	160 - 190
SUPPLY (VDC) (undervoltage protection)	43	43	75	125
SUPPLY (VDC) (overvoltage protection)	102	102	160	240
MOTOR CURRENT (A) (maximum)	6.0	10.0	12.0	12.0
MOTOR CURRENT (A) (minimum)	1.6	4.0	5.0	5.0
CURRENT STEPS	0.62	0.85	1.0	1.0

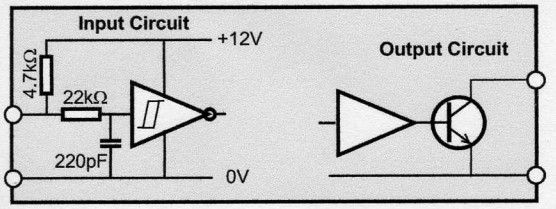
WIRING DIAGRAM

Note: The RTA 'PS' power supply cards may be used instead of external rectifier and capacitor.

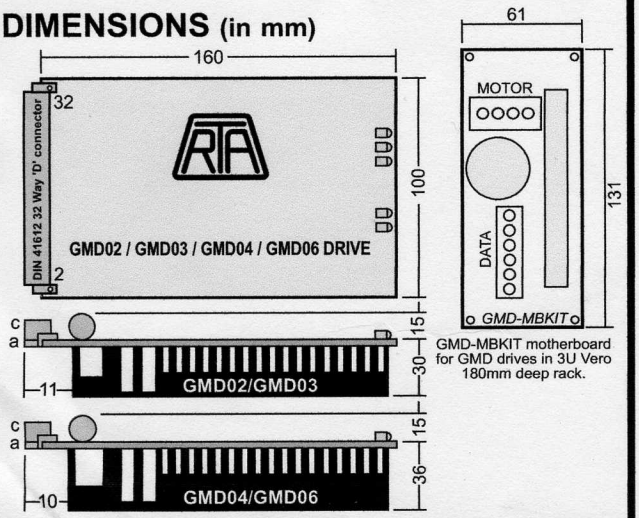
$$C1(\mu F) = \frac{16000[I_{drive} + 1.0]}{VAC}$$



LOGIC SIGNALS



DIMENSIONS (in mm)



GMD-MBKIT motherboard for GMD drives in 3U Vero 180mm deep rack.

CONNECTIONS

28a,c 26a,c	Motor winding $\overline{B}$ (2B or B+)
22a,c 24a,c	Motor winding B (2A or B-)
18a,c 20a,c	Motor winding $\overline{A}$ (1B or A-)
14a,c 16a,c	Motor winding A (1A or A+)
30a,c 32a,c	- DC Power from rectifier or *PS* supply
8a,c 10c	+ DC Power from rectifier or *PS* supply
10a *Drive Fault*	Normally low (to 0V), but becomes high when drive protection is active.
4c *Current*	Forcing this signal low sets motor current to 65% of the set current.
2c *Direction*	Forcing signal low (to 0V) will reverse motor direction. This signal must be on for at least 50µs before STEP input is received and must remain on at least 50µs after the last step is received.
6a *Step Input*	Forcing signal low (to 0V) will cause the motor to step once. Signal must be present for at least 30µs and should ideally be 50% duty cycle.
4a *De energise*	Forcing this signal low (0V) switches off motor current. When open (no connection) motor current is on.
30a,c 32a,c	0V common for all logic signals.
12a *Reserved*	For add on ramped oscillator cards only.
12c *Step Out*	Only used when oscillator cards are installed.

Motors, transformers, controllers, motion control software and motor couplings also available on request.
Continuous development may necessitate changes in models and specifications without notice.

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