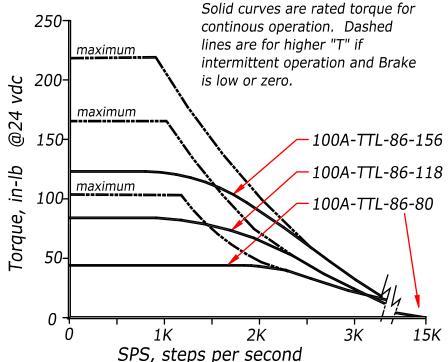


Note! all signals are TTL(+5v). Maximum allowable voltage is +5.5, minimum is -0.5. Do not connect RS232 $(\pm 10v)$ signals directly. For interface to RS232 PCs, use our RS232-TTL Adaptor, which translates the $\pm 10v$ to +5v logic.

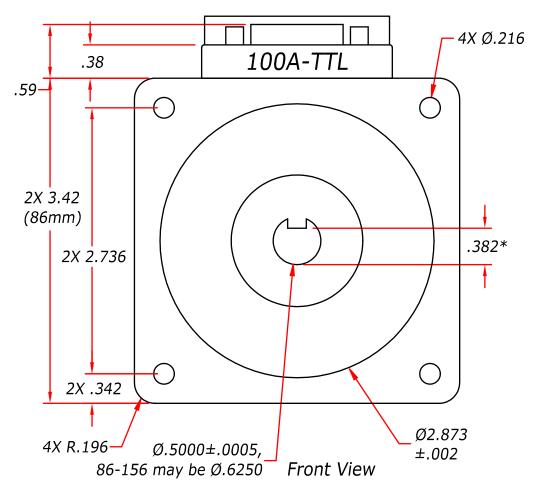
Power supply voltage:		
absolute maximum	30	
typical	12 to 24	
absolute minimum	10	

Optional range is 36 to 48 volts, contact Excitron.

DB15 male connector and housing provided with each motor/controller.



Industry standard NEMA size 34 motors. All 86 series motors are 1.8 deg/full step and usually operate best in half-step.



Above 4,000 sps, the 86-80 will run with more torque and speed then the longer motors in this series. The 86-80 may run up to 15,000 half-steps/sec.



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100A-TTL-86 Series

Specifications subject to change without notice.

03/01/2007 Faster Than Fast! ®

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Motor/Controller	L ±.02"	Wt.	Torque	Trq*
100A-TTL-86-65	2.52"	3.8 lb	32 in-Ib	009
100A-TTL-86-80	3.07	5.1	44	012
100A-TTL-86-118	4.58	8.4	83	021
100A-TTL-86-156	6.08	11.9	122	026

^{*} Rated Trq values are for command "T" with a 24 vdc supply; for 12 volt, you may double these values. Important--do not adjust "T" higher in order to improve torque and performance without first adjusting A, M, and V. "T" controls the amperage which increases temperature. Also, when stepping faster then the point on the speed curve where torque starts to decrease, "T" has no effect because the motor's inductance limits the current. "T" only controls the amperage during the flat section of the speed curve, so be aware.

Temperature is the prime limiting factor for proper running and long life. Do not abuse the controller by running T more then 2.5 times higher then rated. If you must operate at higher values then given in the chart, then provide adequate cooling, and you must derate as the motor temperature rises.

