



MOTOROLA

Brushless DC Motor Controller

The MC33033 is a high performance second generation, integrated feature, monolithic brushless dc motor controller which has evolved from Motorola's full featured MC33034 and MC33035 controllers. It contains all of the drive functions required for the implementation of open loop, three or four phase motor control. The device consists of a motor position decoder for proper commutation sequencing, temperature compensated reference capable of supplying current control, frequency programmable bandwidth regulation, fully adjustable error amplifier, pulse width modulator (PWM), three speed collector for drives, and a high current bidirectional pole lockout device ideally suited for driving power MOSFETs. Unlike its predecessors, it does not feature separate drive output ready and ground pins, brake input, or fault output signal.

Included in the MC33033 are protection features consisting of under-voltage lockout, cycle-by-cycle current limiting with a selectable time delay, and integrated shutdown mode, bidirectional thermal shutdown.

Other motor control functions include speed loop speed, forward or reverse, and a non-saturating brake. The MC33033 is designed to operate from a 5V to 15V supply with a quiescent current of 500mA or 1200mA, and a 100mA shutdown current.

- 12 to 20 Motor Amps
- Under-voltage Lockout
- 10 20 or 40msec Capacitive Motorstarting Time Delay
- Easy-to-use Error Amplifier for Closed Loop Servo Applications
- High Current Drives (Can Control External 4-Phase MOSFET Bridge)
- Cycle-by-Cycle Current Limiting
- Integrated Thermal Shutdown
- Shutdown Current of 1200mA or 500mA
- Also Includes Comprehensive DC Motor with External MOSFET H-Bridge

ORDERING INFORMATION

Device	Operating Temperature Range	Package
MC33033	$T_A = -40^{\circ}\text{C} \text{ to } +85^{\circ}\text{C}$	SO-28
MC33033P		Plastic DIP

Orderable quantities are indicated by MC33033MD

MC33033

BRUSHLESS DC MOTOR CONTROLLER

SEMICONDUCTOR TECHNICAL DATA

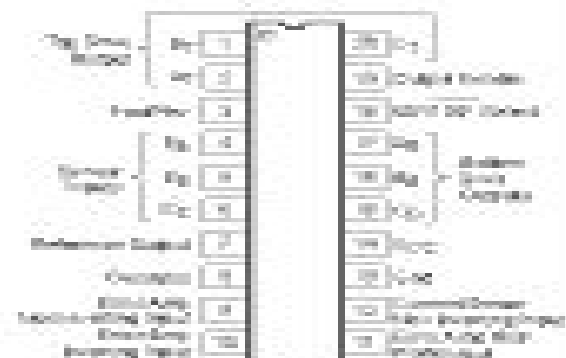


12 SUPPLY
PLASTIC DIP-28
CASE 753



28 GND
PLASTIC DIP-28
CASE 753

PIN CONNECTIONS



(Top View)

Mc33033

Lingjun Ying



Mc33033:

Permanent Magnet Brushless DC Motor Drives and Controls Chang-liang Xia, 2012-04-24 An advanced introduction to the simulation and hardware implementation of BLDC motor drives A thorough reference on the simulation and hardware implementation of BLDC motor drives this book covers recent advances in the control of BLDC motor drives including intelligent control sensorless control torque ripple reduction and hardware implementation With the guidance of the expert author team readers will understand the principle modelling design and control of BLDC motor drives The advanced control methods and new achievements of BLDC motor drives of interest to more advanced readers are also presented Focuses on the control of PM brushless DC motors giving readers the foundations to the topic that they can build on through more advanced reading Systematically guides readers through the subject introducing basic operational principles before moving on to advanced control algorithms and implementations Covers special issues such as sensorless control intelligent control torque ripple reduction and hardware implementation which also have applications to other types of motors Includes presentation files with lecture notes and Matlab 7 coding on a companion website for the book **Electric and Hybrid Vehicles**, 1995 Motor Control Electronics Handbook Richard Valentine, 1998-05-22 This book gives you expert design and application help in controlling all types of motors with precise adaptable intelligence Featuring the latest in electronics technology from the best and brightest in the business this expert guide gives you everything from the fundamentals to cutting edge design tips including real life examples with software code **Advances in Automation and Robotics, Vol.1** Gary Lee, 2011-11-19 The international conference on Automation and Robotics ICAR2011 is held during December 12 13 2011 in Dubai UAE The proceedings of ICAR2011 have been published by Springer Lecture Notes in Electrical Engineering which include 163 excellent papers selected from more than 400 submitted papers The conference is intended to bring together the researchers and engineers technologists working in different aspects of intelligent control systems and optimization robotics and automation signal processing sensors systems modeling and control industrial engineering production and management This part of proceedings includes 81 papers contributed by many researchers in relevant topic areas covered at ICAR2011 from various countries such as France Japan USA Korea and China etc Many papers introduced their advanced research work recently some of them gave a new solution to problems in the field with powerful evidence and detail demonstration Others stated the application of their designed and realized systems The session topic of this proceeding is intelligent control and robotics and automation which includes papers about Distributed Control Systems Intelligent Fault Detection and Identification Machine Learning in Control Neural Networks based Control Systems Fuzzy Control Genetic Algorithms Robot Design Human robots Interfaces Network Robotics and Autonomous Systems Industrial Networks and Automation Modeling Simulation and Architectures Vision Recognition and Reconstruction Virtual Reality Image Processing and so on All of papers here involved the authors numerous time and energy will be proved valuable in

their research field Sincere thanks to the committee and all the authors moreover anonymous reviewers from many fields and organizations That is a power for all of us to go on research work for the world *Electronic Design* ,1989 Electronic Products Magazine ,1989 **Programming Microcontrollers in C** Ted VanSickle,2001-02-20 Ted Van Sickle spent over fifteen years at Motorola as a microcontroller specialist He now consults and teaches classes on software design and programming for microcontroller systems He holds a MSEE from the University of Michigan Introduces microcontrollers and describes their programming environment offering tips on coding for microcontrollersDescribes techniques to get maximum performance from your codeDiscusses the differences between 8 bit and larger microcontrollers giving application examples and providing details on using different compilers **Electronics World + Wireless World** ,1993 **IC Master** ,2001 **Official Journal of the European Communities** ,1992 TARIC Commission of the European Communities,1991 Proceedings of ... International Conference on Power Electronics and Drive Systems ,2005 *The Genealogical Helper* ,1988 Gazzetta ufficiale della Repubblica italiana. Parte prima, 2. serie speciale, Comunità europee ,1991

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