

# **Drv8701 Brushed Dc Motor Full Bridge Gate Driver Rev B**

**MD Sabbir Ahmed** 

#### Drv8701 Brushed Dc Motor Full Bridge Gate Driver Rev B:

Speed Control of Sensorless Brushless DC Motor MD Sabbir Ahmed, 2018-11-22 This book is all about running a brushless DC motor using a sensorless technique The target of the work was to make a very simple operating method for a brushless motor and formulate a speed control mechanism Initially the work was started with both considering back EMF and without considering back EMF Because of more complexity in the back EMF sensing method and as our intention was to make a simpler and cost effective operation so finally we assembled our project the without back EMF sensing Even though being a simple and inexpensive machine the performance was quite good However adding back EMF sensing in this machine can give it more dependability TABLE OF CONTENTS DECLARATIONIAPPROVALIIACKNOWLEDGEMENTIILLIST OF FIGURESVIIABSTRACTIXCHAPTER 1INTRODUCTION101 1 Introduction101 2 Historical Background101 3 Advantage over Traditional Method111 4 Objective of this Work121 4 1 Primary objectives121 4 2 Secondary Objectives121 5 Introduction to this Thesis12CHAPTER 2BRUSHLESS DC MOTOR142 1 Introduction142 2 Comparison of Brushless motor with brushed motors152 3 Structure of a BLDC152 3 1 Stator162 3 2 Rotor172 4 Operating Principle182 4 1 Sensored Commutation192 4 2 Conventional Control Method Using Hall effect Sensors202 4 3 Sensorless Control222 5 Applications232 6 Summary24CHAPTER 3MOTOR DRIVE SYSTEMS253 1 Introduction253 2 Components of Drive Electronics253 3 Inverter263 3 1 Three Phase Inverter263 3 1 1 120 Degree Conduction273 3 1 2 180 Degree Conduction293 4 Speed Control Techniques 303 4 1 Open Loop Speed Control 313 4 2 Closed Loop Speed Control 313 4 2 1 Proportional Integral PI Controller323 5 PWM based Methods333 5 1 Conventional 120 PWM technique333 5 2 PWM Duty Cycle Calculation333 6 Summary34CHAPTER 4SIMULATION354 1 Introduction354 2 Simulation354 2 1 Simulating Three Phase Inverter364 2 2 Simulating Controller Unit384 3 Simulation Results394 3 1 Speed Control404 4 Summary40CHAPTER 5HARDWARE IMPLEMENTATION415 1 Introduction415 2 Equipments and Components425 3 Power Supply Unit435 4 Microcontroller Unit445 5 Motor Drive Unit455 6 Performance of the System465 7 Summary47CHAPTER 6DISCUSSIONS AND CONCLUSIONS486 1 Discussions486 2 Suggestion for future Work496 2 1 Limitations496 2 2 Future Scope496 3 Conclusions50REFERENCES51APPENDIX A53SPEED CONTROL FLOWCHART53APPENDIX B54MICROCONTROLLER CODES54APPENDIX C55ATMEGA32 MICROCONTROLLER 556 3 1 Pin Descriptions556 3 2 Block Diagram586 3 3 Electrical Characteristics 59APPENDIX D60L298 DUAL FULL BRIDGE DRIVER 606 3 4 Pin Configurations 606 3 5 Maximum Ratings 61

The book delves into Drv8701 Brushed Dc Motor Full Bridge Gate Driver Rev B. Drv8701 Brushed Dc Motor Full Bridge Gate Driver Rev B is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Drv8701 Brushed Dc Motor Full Bridge Gate Driver Rev B, encompassing both the fundamentals and more intricate discussions.

- 1. This book is structured into several chapters, namely:
  - Chapter 1: Introduction to Drv8701 Brushed Dc Motor Full Bridge Gate Driver Rev B
  - Chapter 2: Essential Elements of Drv8701 Brushed Dc Motor Full Bridge Gate Driver Rev B
  - Chapter 3: Drv8701 Brushed Dc Motor Full Bridge Gate Driver Rev B in Everyday Life
  - Chapter 4: Drv8701 Brushed Dc Motor Full Bridge Gate Driver Rev B in Specific Contexts
  - ∘ Chapter 5: Conclusion
- 2. In chapter 1, the author will provide an overview of Drv8701 Brushed Dc Motor Full Bridge Gate Driver Rev B. This chapter will explore what Drv8701 Brushed Dc Motor Full Bridge Gate Driver Rev B is, why Drv8701 Brushed Dc Motor Full Bridge Gate Driver Rev B is vital, and how to effectively learn about Drv8701 Brushed Dc Motor Full Bridge Gate Driver Rev B.
- 3. In chapter 2, the author will delve into the foundational concepts of Drv8701 Brushed Dc Motor Full Bridge Gate Driver Rev B. The second chapter will elucidate the essential principles that need to be understood to grasp Drv8701 Brushed Dc Motor Full Bridge Gate Driver Rev B in its entirety.
- 4. In chapter 3, this book will examine the practical applications of Drv8701 Brushed Dc Motor Full Bridge Gate Driver Rev B in daily life. This chapter will showcase real-world examples of how Drv8701 Brushed Dc Motor Full Bridge Gate Driver Rev B can be effectively utilized in everyday scenarios.
- 5. In chapter 4, this book will scrutinize the relevance of Drv8701 Brushed Dc Motor Full Bridge Gate Driver Rev B in specific contexts. The fourth chapter will explore how Drv8701 Brushed Dc Motor Full Bridge Gate Driver Rev B is applied in specialized fields, such as education, business, and technology.
- 6. In chapter 5, this book will draw a conclusion about Drv8701 Brushed Dc Motor Full Bridge Gate Driver Rev B. This chapter will summarize the key points that have been discussed throughout the book.
  - This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Drv8701 Brushed Dc Motor Full Bridge Gate Driver Rev B.

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# Drv8701 Brushed Dc Motor Full Bridge Gate Driver Rev B Introduction

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