

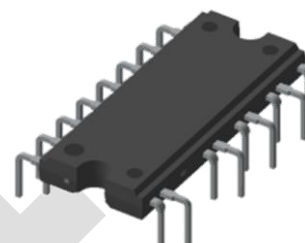
# INTELLIGENT POWER MODULE(IPM), 3 PHASE FULL-BRIDGE 600V/4A

## 1.DESRIPTION

SDM04V60DA3 is a highly integrated and highly reliable three-phase brushless DC motor drive circuit, which is mainly used in lower power frequency conversion drives, such as fans, pumps, etc. It contains 6 fast recovery power MOSFETs and 3 half-bridge HVIC for gate driving.

SDM04V60DA3 integrates various protection functions such as undervoltage, short circuit, and overtemperature, as well as temperature output, providing excellent protection and a wide safe operating range. Since each phase has an independent negative DC terminal, its current can be sensed separately.

SDM04V60DA3 is designed with good insulation and perfect thermal properties. It is compact and suitable for built-in motors or any other applications requiring the compact installation.



DIP-2VC

## 2.FEATURES

- ◆ Built-in six 600V/4A fast recovery MOSFETs
- ◆ Built-in high-voltage Gate driver circuit (HVIC)
- ◆ Built-in under voltage protections, over temperature/over current protection and temperature output
- ◆ Built-in shut-down input
- ◆ Built-in inter-lock function
- ◆ Built-in bootstrap diode
- ◆ Compatible with 3.3V, 5V MCU interface, active high
- ◆ Three independent negative DC terminals for inverter current detection
- ◆ Insulation class: 1500V<sub>rms</sub>/min

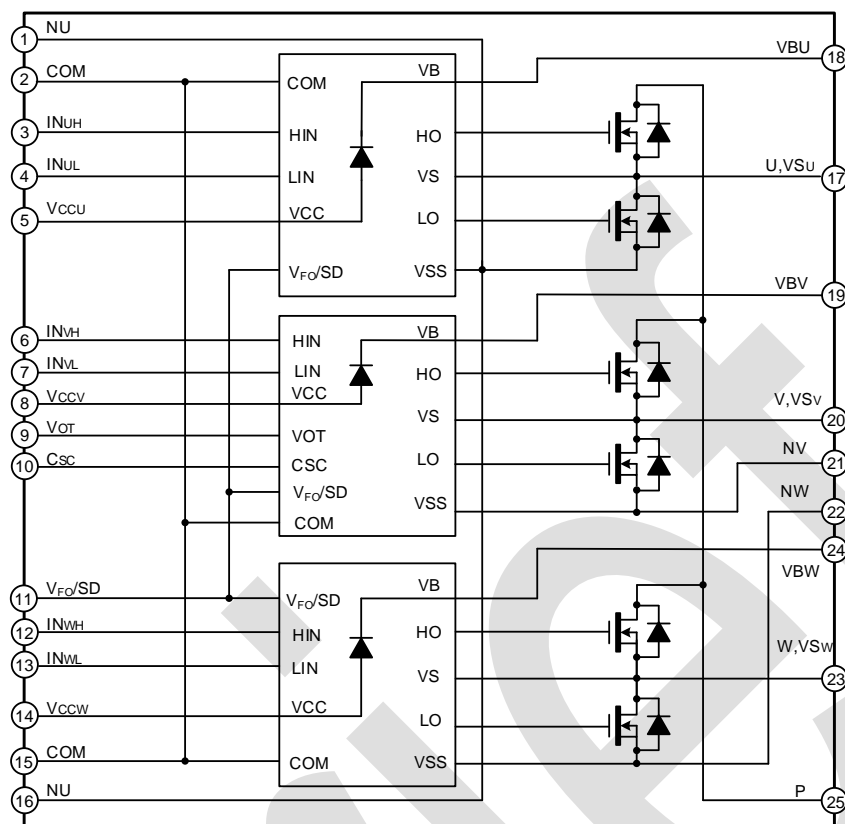
## 3.APPLICATIONS

- ◆ Air conditioner fan
- ◆ Pump

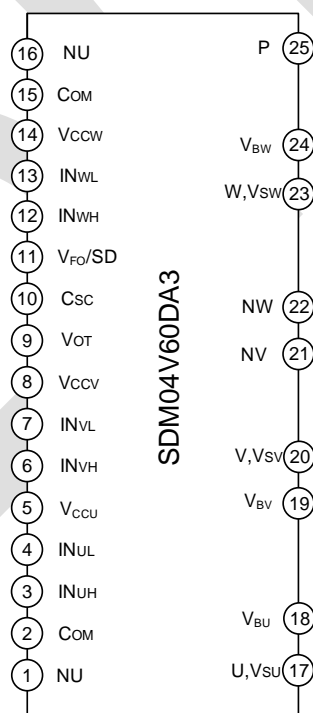
## 4.ORDERING INFORMATION

Part No.	Package	Marking	Hazardous Substance Control	Packing Type
SDM04V60DA3	DIP-2VC	SDM04V60DA3	Halogen free	Tube

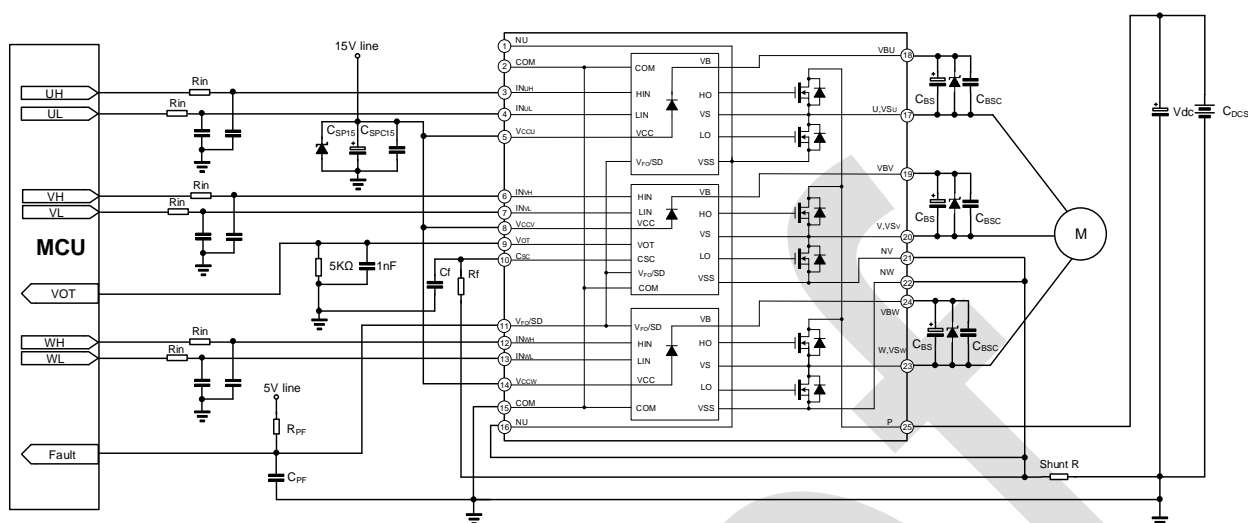
## 5. BLOCK DIAGRAM



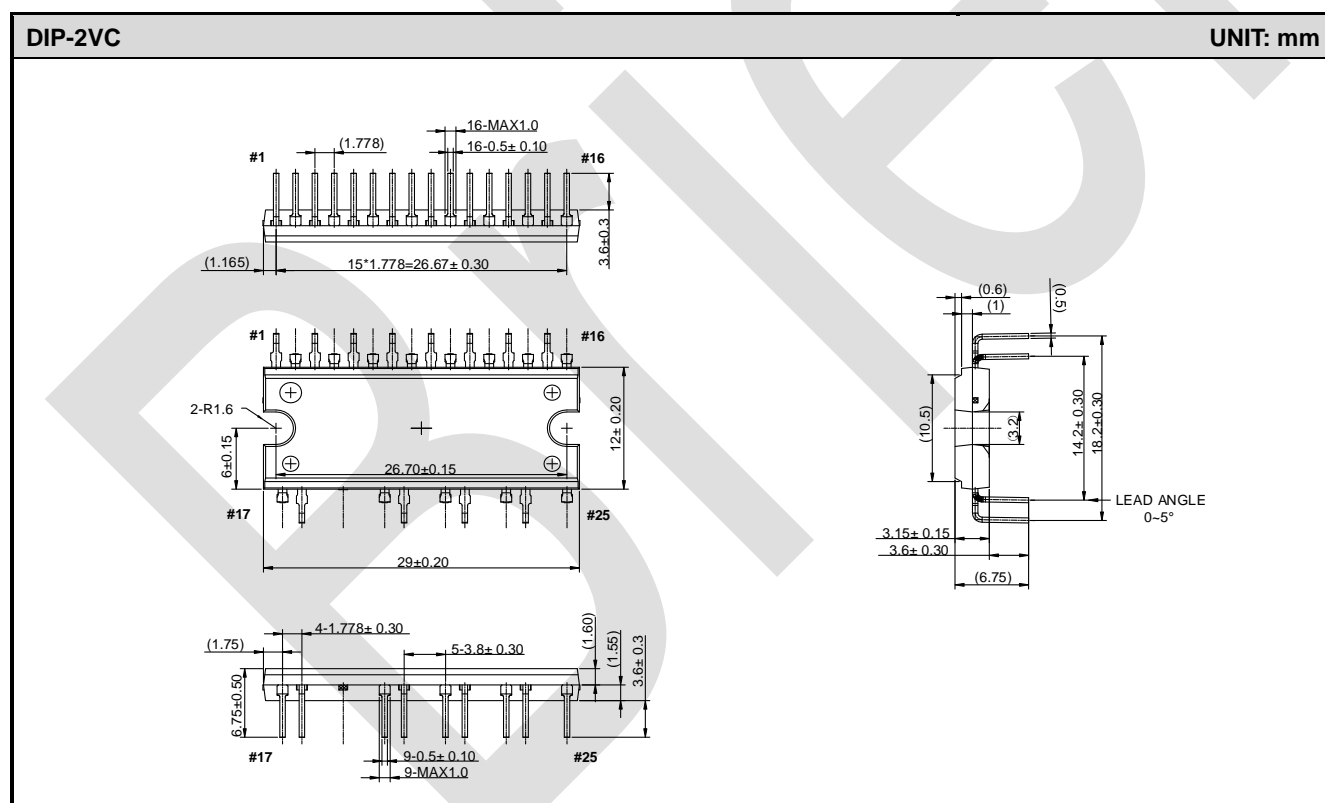
## 6. PIN CONFIGURATION



## 7.TYPICAL APPLICATION CIRCUIT



## 8.PACKAGE OUTLINE



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