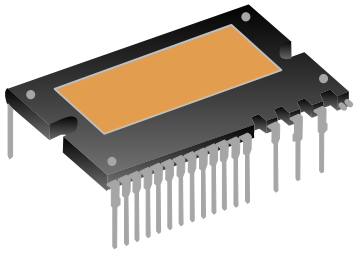
600V/15A 3-PHASE FULL-BRIDGE DRIVER (INTELLIGENT POWER MODULE)

1.DESCRIPTION

SDM15G60TA is a 3-phase brushless DC motor driver with high integration and high reliability for low power inverter driving such as air conditioner, washing machine and low power inverter. It has embedded six low-loss IGBTs and 3-phase full-bridge gate drivers with high voltage.
The under voltage, short circuit and over temperature protections integrated make the circuit work safely in a wide range. The current of each phase can be detected separately because there is one independent negative DC terminal for each phase.
SDM15G60TA uses high-insulation design, compact package and carries heat easily, which makes it easy to use especially for compact installation applications.



DIP-24HL

2.FEATURES

- Built-in low-loss 600V/15A IGBT;
- Built-in high-voltage integrated circuit of gate driver;
- Built-in under voltage protection, over temperature protection, over current protection and temperature output;
- Built-in bootstrap diode with current limiting resistor;
- Compatible with 3.3V, 5V MCU interface, active high;
- Three independent negative DC terminal for inverter current detection;
- Alarm signal: for low-side under voltage, over temperature and short circuit protections;
- Very low thermal resistance using Al_2O_3 DBC substrate;
- Insulation level: 1500Vrms/min

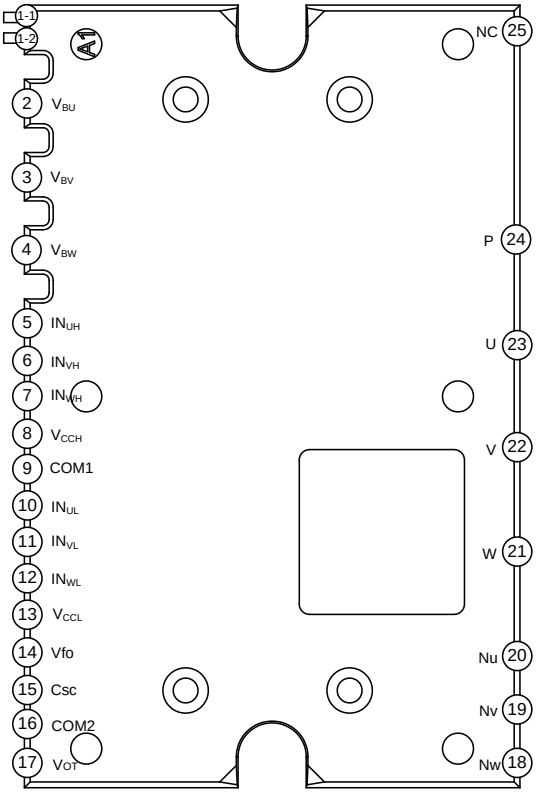
3.APPLICATIONS

- Air conditioner compressor
- washing machine
- Low power inverter

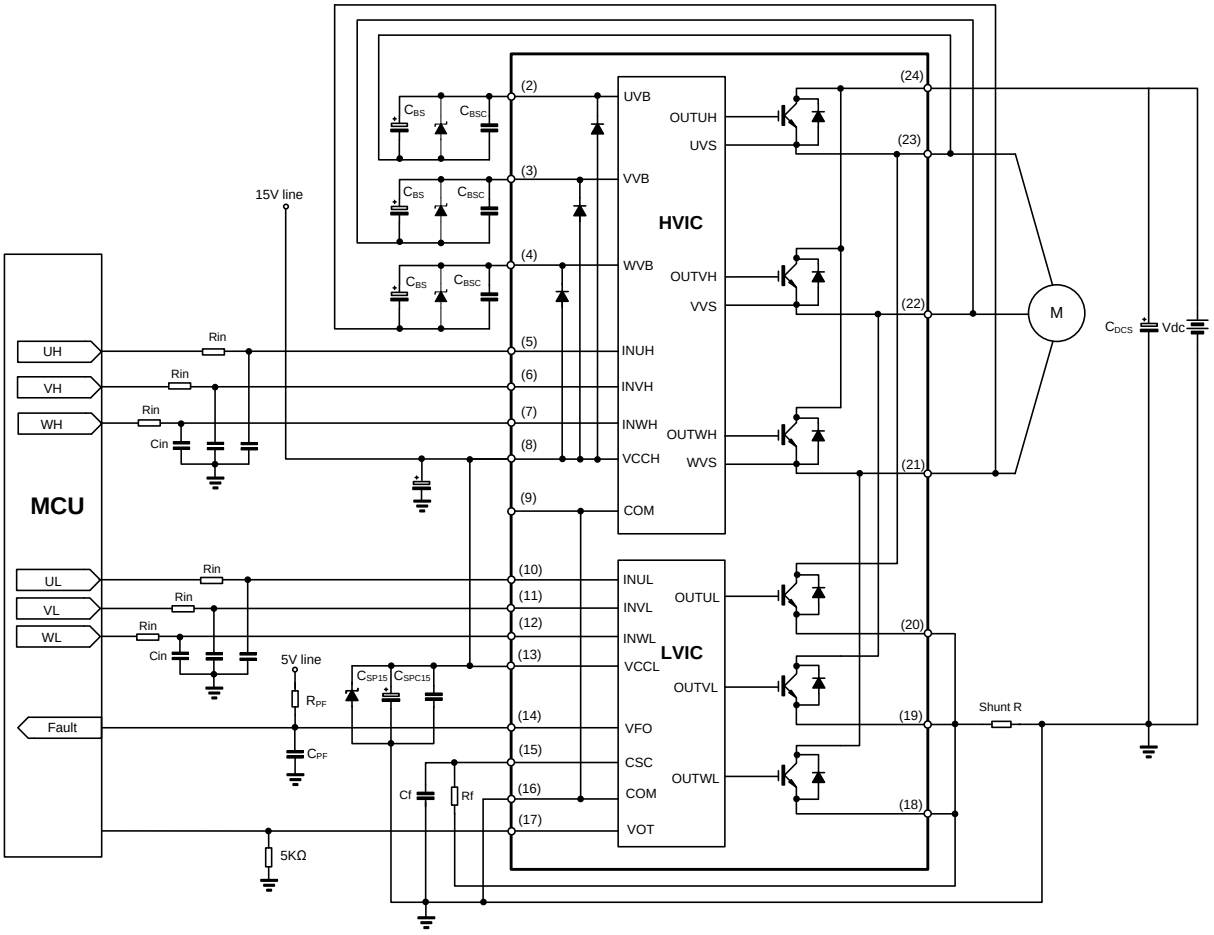
4.ORDERING INFORMATION

Part No.	Package	Marking	Hazardous Substance Control	Packing Type
SDM15G60TA	DIP-24HL	SDM15G60TA	Halogen Free	Tube

5.PIN CONFIGURATION

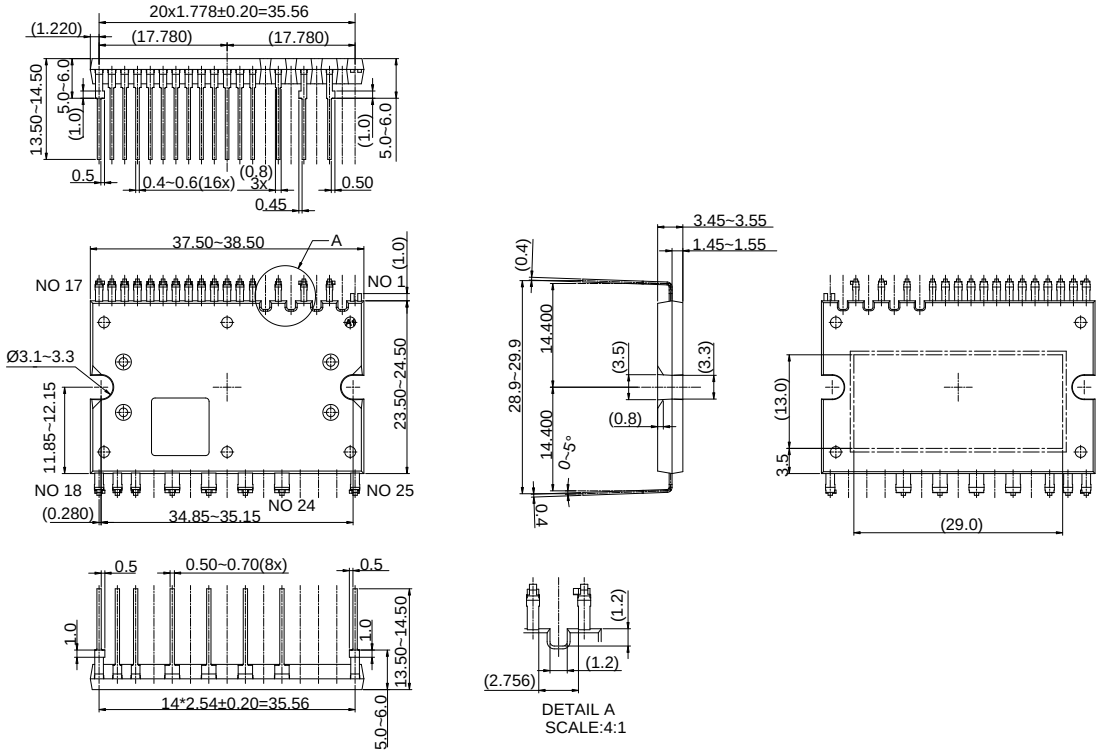


6.TYPICAL APPLICATION CIRCUIT



7.PACKAGE OUTLINE

DIP-24HL **UNIT: mm**



Important notice :

1. **The instructions are subject to change without notice!**
2. **Customers should obtain the latest relevant information before placing orders and should verify that such information is complete and current. Please read the instructions carefully before using our products, including the circuit operation precautions.**
3. **Our products are consumer electronic products or the other civil electronic products.**
4. **When using our products, please do not exceed the maximum rating of the products, otherwise the reliability of the whole machine will be affected. There is a certain possibility of failure or malfunction of any semiconductor product under specific conditions. The buyer is responsible for complying with safety standards and taking safety measures when using our products for system design, sample and whole machine manufacturing, so as to avoid potential failure risk that may cause personal injury or property loss.**
5. **It is strongly recommended to identify the trademark when buying our products. Please contact us if there is any question.**
6. **Product promotion is endless, our company will wholeheartedly provide customers with better products!**
7. **Website: http: //www.silan.com.cn**