

FEATURES

- 10µs Short Circuit Withstand
- High Thermal Cycling Capability
- Non Punch Through Silicon
- Isolated MMC Base with AlN Substrates

APPLICATIONS

- High Reliability Inverters
- Motor Controllers
- Traction Auxiliaries

The Powerline range of high power modules includes half bridge, chopper, dual, single and bi-directional switch configurations covering voltages from 600V to 3300V and currents up to 2400A.

The DIM200PHM33-A000 is a half bridge 3300V, n channel enhancement mode, insulated gate bipolar transistor (IGBT) module. The IGBT has a wide reverse bias safe operating area (RBSOA) plus full 10µs short circuit withstand. This device is optimised for traction drives and other applications requiring high thermal cycling capability.

The module incorporates an electrically isolated base plate and low inductance construction enabling circuit designers to optimise circuit layouts and utilise grounded heat sinks for safety.

ORDERING INFORMATION

Order As:

DIM200PHM33-A000

Note: When ordering, please use the whole part number.

KEY PARAMETERS

| | | |
|-----------------|-------|--------------|
| V_{CES} | | 3300V |
| $V_{CE(sat)}$ * | (typ) | 3.4V |
| I_C | (max) | 200A |
| $I_{C(PK)}$ | (max) | 400A |

*(measured at the power busbars and not the auxiliary terminals)

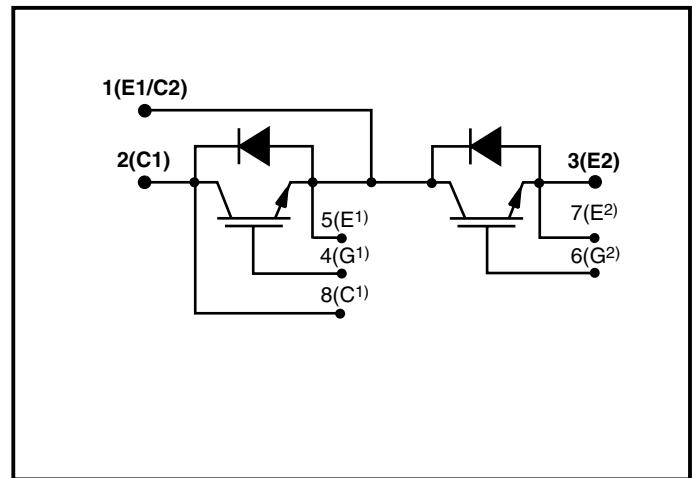


Fig. 1 Half bridge circuit diagram

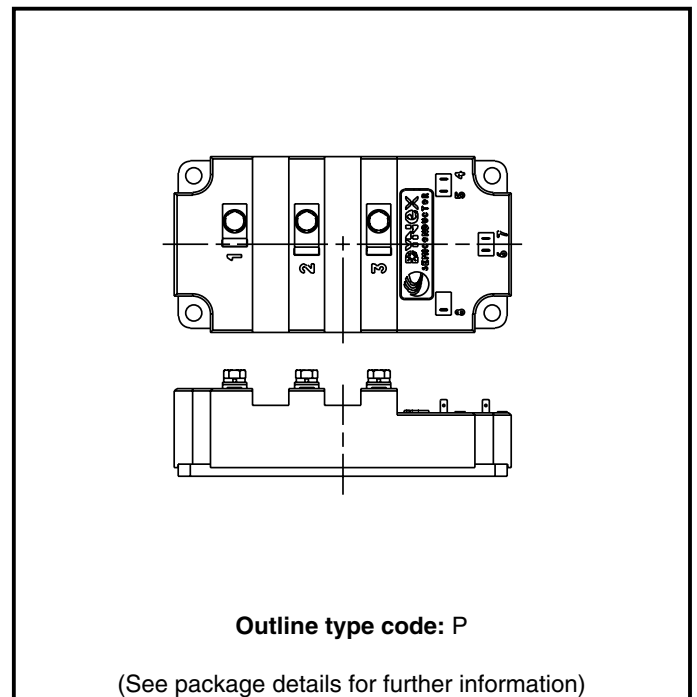


Fig. 2 Electrical connections - (not to scale)