DIP-CI(B)IPM
CIB Solution

Large DIP Ver.6

Under development
(These contents might be changed)

Inverter circuit only

All (which make up inverter system) in one package

DIP-CIBIPM

Converter + Inverter + Brake
**DIP-CIBIPM**

**Feature**
- CIB part integrated All in One Transfer Molded DIPIPM
- Equivalent function for inverter part with Large DIP Ver.6: BSD, VOT..
- Simplify pattern design and reduce cost by shrinking PCB size

**Applications:**
- Packaged Air conditioner
- General purpose inverter
- Servo etc.

**Customer merit:**
- Shrink PCB and system package size by all in one IPM
- Shorten design time by simplifying wiring pattern
- Total cost reduction by built-in components

**Line up (Plan)**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Rating</th>
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<tr>
<td>PSSxxMC1FT</td>
<td>5~35A/1200V</td>
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35A product will not include brake.

85mm X 34mm
Example of wiring layout

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Outline

Between control terminals (High voltage terminal to Low voltage terminal) | Clearance | Creepage
--- | --- | ---
2.5mm | 6.4mm

Between power terminals | 5.8mm | 6mm

Between Terminal and Earth (Terminal to Heatsink) | 2.5mm | 4.3mm

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**Performance (Tentative)**

**Loss Estimation (25A)**
(Vcc=600V, PF=0.8, fc=5kHz, modulation ratio=1.0, Tj=125°C)

![Loss Estimation Graph](image)

**Temperature rise (25A)**
(Vcc=600V, PF=0.8, fc=5kHz, modulation ratio=1.0, Tj=125°C)

![Temperature Rise Graph](image)

**Switching Waveform (Tj=125°C, Ic=25A)**

![Switching Waveform](image)