



**FEATURES**

- Built-in Power Supply (some models)
- Built-in opto coupler isolation
- Small size
- Over temperature protection circuit
- Voltage drop protection circuit.

**INTELLIGENT POWER MODULES**

Shindengen’s Intelligent Power Module is an innovative module designed specifically for use in modular air conditioning units. The IPM increases energy efficiency by keeping the compressor motor running constantly at a low level, building power incrementally when required. The IPM eliminates the energy surges required to start motor rotation in systems that rely on normal on/off switching controls.

**Applications**

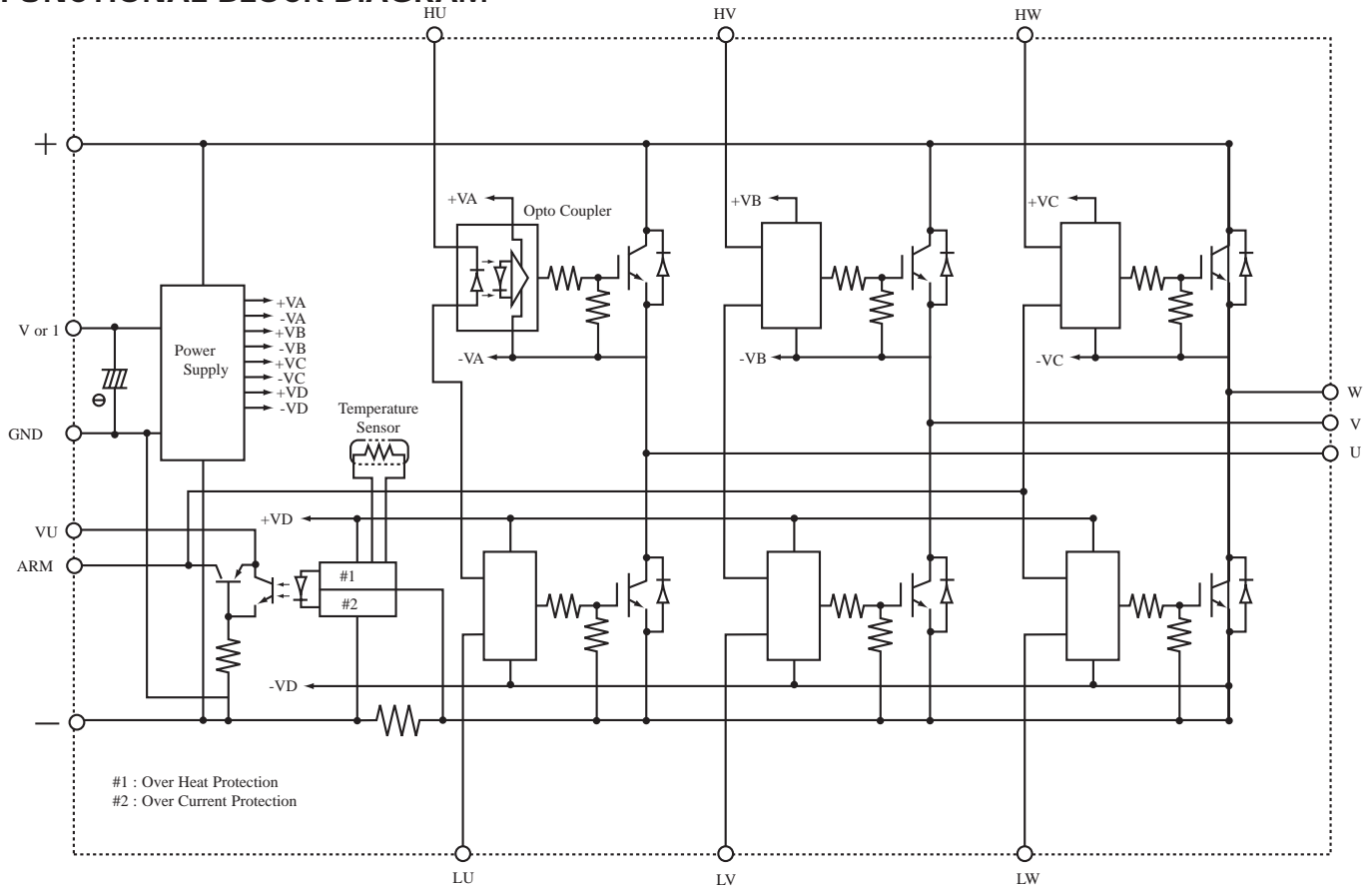
This unit is specifically for use in air conditioning systems that are modular in design, such as those found in hotel/motel rooms.

**MODEL SPECIFICATIONS**

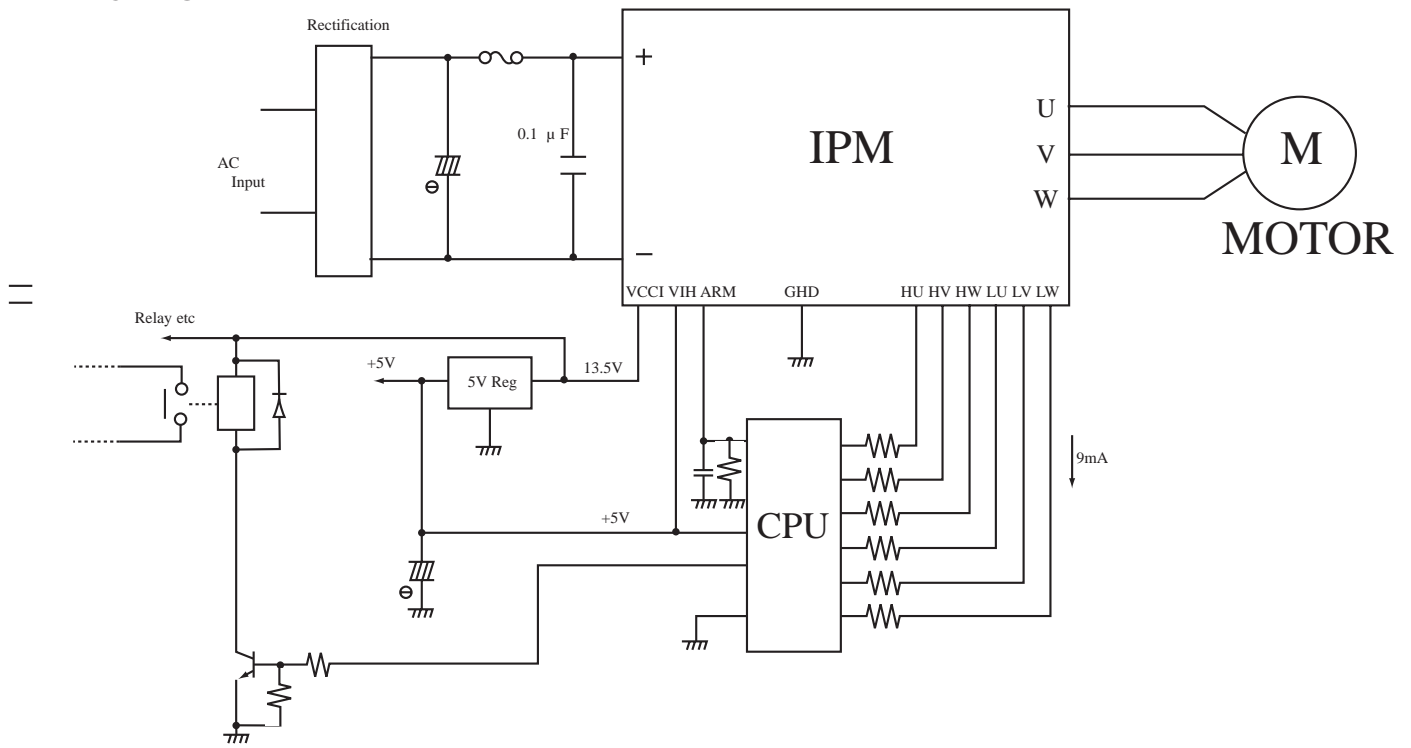
Item \ Type	Type	TMO3	TMO4	TMO5	TMO6	TM-10A	TM-07A	TL105B	TM-13
Input voltage	V	230~390	275~378	195~230	TBD	170~330	170~330	170~350	170~390
IGBT current	A	15	15	TBD	TBD	15	20	30	50
Output power supply voltage	V	12.0	24.0		TBD	13.5	13.5	13.5 5.0	13.5
Output power supply current (max)	mA	400	400	400	TBD	750	750	650 100	400
Over-current level	A	24	24	30	TBD	24~34		45~55	
Over-temperature level		115°C	115°C	TBD	TBD	Typ. 115°C		Typ. 110°C	Typ. 115°C
Alarm output time						0.8 ms or over			
Operation frequency						4.0 kHz or under			
Operation temperature						-20°C ~ 70°C			

# I P M modules

## FUNCTIONAL BLOCK DIAGRAM



## APPLICATION



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