

Modular Application Design Kit EVAL-M1-IM828 introduction



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Evaluation board: EVAL-M1-IM828

Description and product portfolio



Coming soon



Description

- › EVAL-M1-IM828 is a complete evaluation board including a 3-phase CIPOS™ Maxi intelligent power module (IPM) for motor drive application. In combination with control boards equipped with the M1 20-pin interface connector, like EVAL-M1-101T, it features and demonstrates Infineon's CIPOS™ Maxi SiC IPM technology for motor drives.
- › The evaluation board EVAL-M1-IM828 was developed to support customers during their first steps in designing applications with CIPOS™ Maxi SiC IPM.
- › The CIPOS™ Maxi IPM in this board is IM828-XCC, which has a 3-phase inverter with 1200 V CoolSiC™ MOSFETs and emitter-controlled diodes combined with an optimized 6-channel SOI gate driver. It is optimized for industrial applications like motor drives and active power factor correction.

Product portfolio

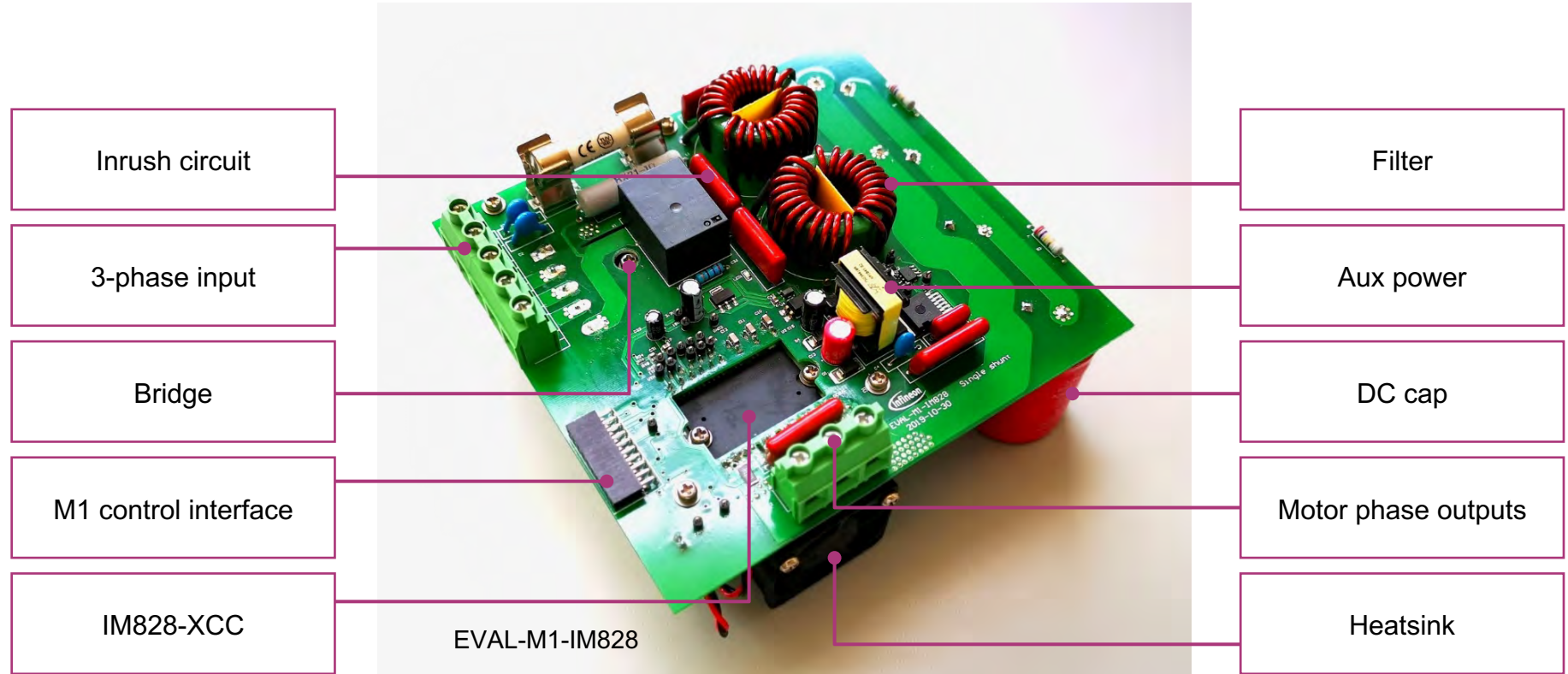
Part No.	Normal input voltage	Default motor power output	Remark
EVAL-M1-IM828	380 VAC	10 KW @ 6 kHz	Release: Q4/2020

EVAL-M1-IM828

Evaluation board overview



Coming soon



EVAL-M1-IM828

Evaluation board overview

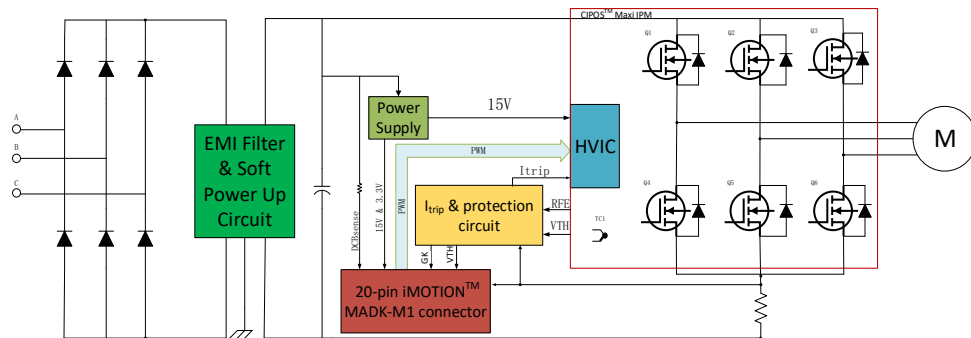
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Main specifications

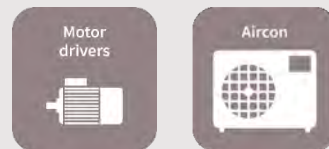
- › Input voltage 380 VAC
- › Maximum 10 kW motor power output
- › Output current 18 A (rms)
- › On-board EMI filter
- › Single-shunt current sensing configured by default
- › Auxiliary power supply with 15 V, 3.3 V
- › Overcurrent protection
- › Overtemperature protection
- › Sensing of DC-link voltage
- › Thermistor output
- › Fault diagnostic output
- › Measurement test-points compatible with standard oscilloscope probes
- › PCB is 150 mm × 140 mm and has two layers with 70 µm copper each
- › RoHS compliance



Block diagram



Target applications





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