

Automotive Power Modules

EMIPAK 1B PressFit Power Modules in a Compact Design With Low Stray Inductance



ADVANTAGE

Modular and compact off the shelf solution for on-board chargers. Each module can also be used in different stages for industrial applications.

KEY PRODUCT FEATURES

- ✓ Several circuit configurations in a modular "ready to go" solution implementing proven automotive technology for on-board chargers
- ✓ Compliancy with the AQC-324 automotive guideline
- ✓ Compact module with a complex circuit configuration



MARKETS AND APPLICATIONS



MOBILITY

- HEV / EV, low speed electrical vehicles, on-board chargers
- DC/DC power conversion
- Battery charging, DC/DC conversion (including power train)



INDUSTRIAL

- Welding (PFC + primary stage), plasma cutting (output stage)
- UPS, rail power supply



ENERGY SECTOR

- Solar inverters, wind turbines (pitch control / aux power), fuel-cell DC/DC power conversion
- Smart grid management / active filters
- Large battery systems, electrolytic and electrostatic storage, hydrogen storage



CONNECTIVITY

- PSU

RESOURCES



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[Application Notes](#)



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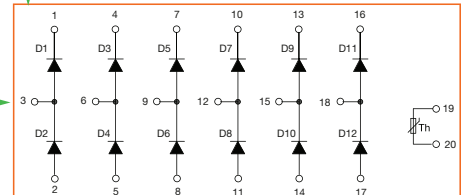
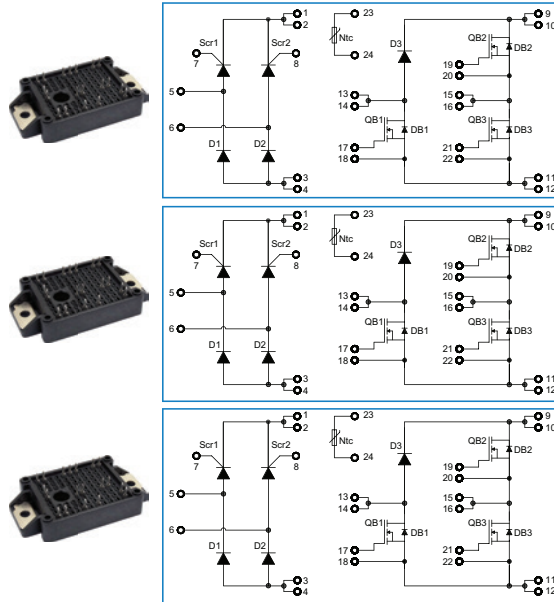


[Contact Us Europe](#)

11 kW NOMINAL POWER: RUGGED PFC

3 x VS-ENM040M60P

- 600 V class V_{BR} rating
- 40 A input bridge + 33 m Ω MOSFETs for improved efficiency + 30 A SiC boost diode



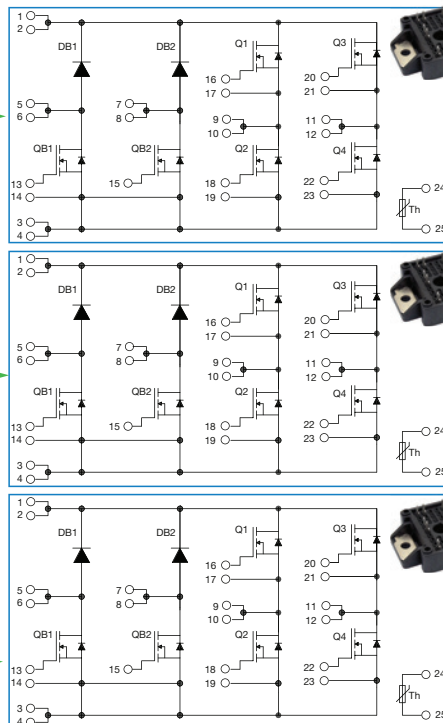
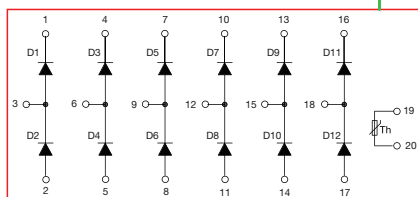
VS-ENV020F65U

- 650 V class V_{BR} rating
- 12 x 20 A 650 V FRED Pt[®] G2 U-type (G5 H-type option)

11 kW NOMINAL POWER: RUGGED AND HIGH EFFICIENCY PFC

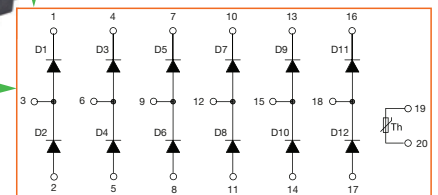
VS-ENV020M120M

- 1200 V class V_{BR} rating
- 12 x 20 A 1200 V MOAT input rectifiers



3 x VS-ENK025C65S

- 650 V class V_{BR} rating
- 6 x 63 m Ω MOSFETs, 2 x 10 A SiC diodes, NTC



VS-ENV020F65U

- 650 V class V_{BR} rating
- 12 x 20 A 650 V FRED Pt[®] G2 U-type (G5 H-type option)