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New VS-40MT160P-P, VS-70MT160P-P, and VS-100MT160P-P Three-Phase-Bridge Power Modules Lower Production Costs and Increase Reliability

Product Benefits:

- Maximum output current from 45 A to 100 A
- Low-profile MTP PressFit package
- Direct mounting to heatsinks
- 3500 VRMS insulation voltage
- Low forward voltage
- Low junction-to-case thermal resistance
- Designed and qualified for industrial-level applications
- RoHS-compliant
- UL approved file E78996



Market Applications:

- AC/DC input rectification in welding machines, UPS, switch mode power supplies, and motor drives

The News:

Vishay Intertechnology introduces a new series of 45 A to 100 A three-phase-bridge power modules in the low-profile MTP PressFit package. Compared to devices incorporating solder contact technology, the Vishay Semiconductors VS-40MT160P-P, VS-70MT160P-P, and VS-100MT160P-P dramatically lower production costs.

- Solderless PressFit technology allows for easy one-step PCB mounting to significantly reduce assembly time, while simplifying in-field maintenance
- Low 17 mm profile maximizes space savings, while optimizing electrical layouts for application-specific power supplies
- Higher reliability and long-term durability compared to solder contact technology
 - PressFit package offers increased resistance to shock and vibration, while eliminating issues such as cold spots, voids, splatter, and cracks
 - Not subject to solder fatigue, a common failure mechanism in power modules operating at high temperatures



The Key Specifications:

Part number	VS-40MT160P-P	VS-70MT160P-P	VS-100MT160P-P
Max. DC output current (A)	45	75	100
Insulation voltage (VRMS)	3500	3500	3500
Max. repetitive peak reverse voltage (V)	1600	1600	1600

Availability:

Samples and production quantities of the new power modules are available now, with lead times of eight to 10 weeks for large orders.

To access the product datasheet on the Vishay Web site, go to <http://www.vishay.com/ppg?94870> (VS-40MT160P-P, VS-70MT160P-P, VS-100MT160P-P)

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