

130 A VS-131MT...C, 160 A VS-161MT...C, and 300 A VS-301MT...C Three Phase Bridge Power Modules in the Compact MTC Package Deliver Reliable Operation at a Reduced Cost, Provide Excellent Thermal Behavior for Industrial Applications

Product Benefits:

- Available with output currents of 130 A, 160 A, and 300 A
- Offered in the ultra compact MTC package
- A simple, screw-mount connection reduces assembly time
- Each power module series is available with blocking voltages of 1600 V and 1800 V
- 3600 V_{RMS} isolation voltage
- Low forward voltage down to 1.54 V
- Low junction to case thermal resistance down to 0.038 °C/W
- Designed and qualified for industrial-level applications
- RoHS-compliant solutions and UL-approved, file E78996



Market Applications:

- Line-frequency input rectification in welding machines, switch mode power supplies, plasma cutting, battery chargers, and motor control

The News:

Vishay Intertechnology introduces three new series of 130 A to 300 A three phase bridge power modules in the ultra compact MTC package that deliver reliable operation for heavy-duty industrial applications.

- Produced at an in-house assembly site in Mumbai, the Vishay Semiconductors devices are not subject to U.S. tariffs
- The encapsulated devices offer a rugged design, while their highly conductive MTC package provides excellent thermal behavior

The Key Specifications:

Part #	I _o (A)	V _{RRM} (V)	V _{FM} (V)	R _{thJC} (°C/W) per module	RMS isolation voltage (V)	Package
VS-131MT160C	130	1600	2.05	0.068	3600	MTC
VS-131MT180C	130	1800	2.05	0.068	3600	MTC
VS-161MT160C	160	1600	1.85	0.058	3600	MTC
VS-161MT180C	160	1800	1.85	0.058	3600	MTC
VS-301MT160C	300	1600	1.54	0.038	3600	MTC
VS-301MT180C	300	1800	1.54	0.038	3600	MTC



NEW PRODUCT INFORMATION



Product Group: Vishay Semiconductors, Power Modules / **December 2022**

Availability:

Samples quantities of the new power modules are available now. Production quantities are available, with lead times of 20 weeks.

To access the product datasheets on the Vishay Website, go to

<http://www.vishay.com/ppg?96989> (VS-131MT...C Series)

<http://www.vishay.com/ppg?96990> (VS-161MT...C Series)

<http://www.vishay.com/ppg?96991> (VS-301MT...C Series)

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