

VIA™ TPM™

Three-Phase AC Input Module for AC-DC Systems



For use with BCM4414 high-voltage and ultra-high-voltage VIAs.

Description

The TPM is designed to interface directly with worldwide three-phase AC mains and provide a rectified AC input to the Vicor family of BCM4414 VIA high-voltage and ultra-high-voltage products. Offered in a small and low-profile VIA package, the TPM includes surge protection circuitry, EMI filtering and bridge rectification. The TPM and BCM® realize a small, efficient, simple and cost-effective EMI Class A AC-DC solution for a broad range of end applications.



TPM1714
1.76 x 1.40 x 0.37in
[44.6 x 35.5 x 9.3mm]

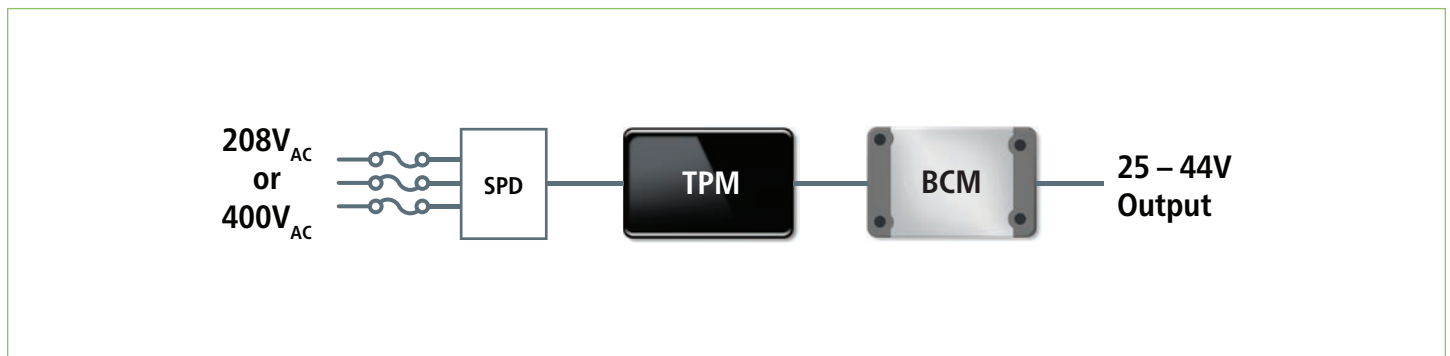
Features & Benefits

- Three-phase input
- 170 – 530V_{AC} (line to line)
- 47 – 840Hz AC line frequency
- Chassis-Mount or PCB-Mount Form Factor
- Small robust package
- Low profile
- EMI filtering
- Meets EN61000-4-5 Class 3 surge protection at V_{IN} = 208V_{AC} when used with external surge trap and fuse, paired with Vicor BCM4414 VIA high-voltage products

Part Numbers

Model Number	Product Grade	Mounting Style	Companion BCMs
TPM1714VE3MG5K7T00	C = -20 to +100°C or T = -40 to +100°C	Chassis	BCM4414VD1E5135T02
TPM1714BE3MG5K7T04		Board - Short	BCM4414BD1E5135T06
TPM1714BE3MG5K7T08		Board - Long	BCM4414BD1E5135T10

Typical Application



A Vicor TPM1714 and BCM4414 implement a compact three-phase power system.