

产品概览

NCP1654: 实现紧凑性和耐用性的功率因数校正控制器，连续导通模式预转换器

欲看完整文档，请参阅数据表。

NCP1654 是一款用于连续导通模式 (CCM) 功率因数校正 (PFC) 步升预转换器的控制器。它在固定频率模式下控制电源开关导通时间 (PWM)，取决于瞬时线圈电流。该电路采用 SO-8 封装，最大程度减少了外部部件数量，并极大简化了 PFC 实施。它还集成了高安全性功能，使得 NCP1654 成为一款适用于有效输入功率失控箝位电路。

特性

- Very Few External Components
- Programmable Overcurrent Protection
- BrownOut Detection
- Overvoltage Protection
- Soft Start
- Continuous Conduction Mode
- Average Current-Mode or Peak Current-Mode Operation
- Programmable Overpower Limitation
- Undervoltage Detection for Open Loop Detection (shutdown)
- Inrush Currents Detection

For more features, see the data sheet

应用

- Power Factor Correction Stage

优势

- helps in realizing a cost-effective solution
- increases safety
- protection against low-mains and reduced stress on components
- rugged design
- reduces transient stress

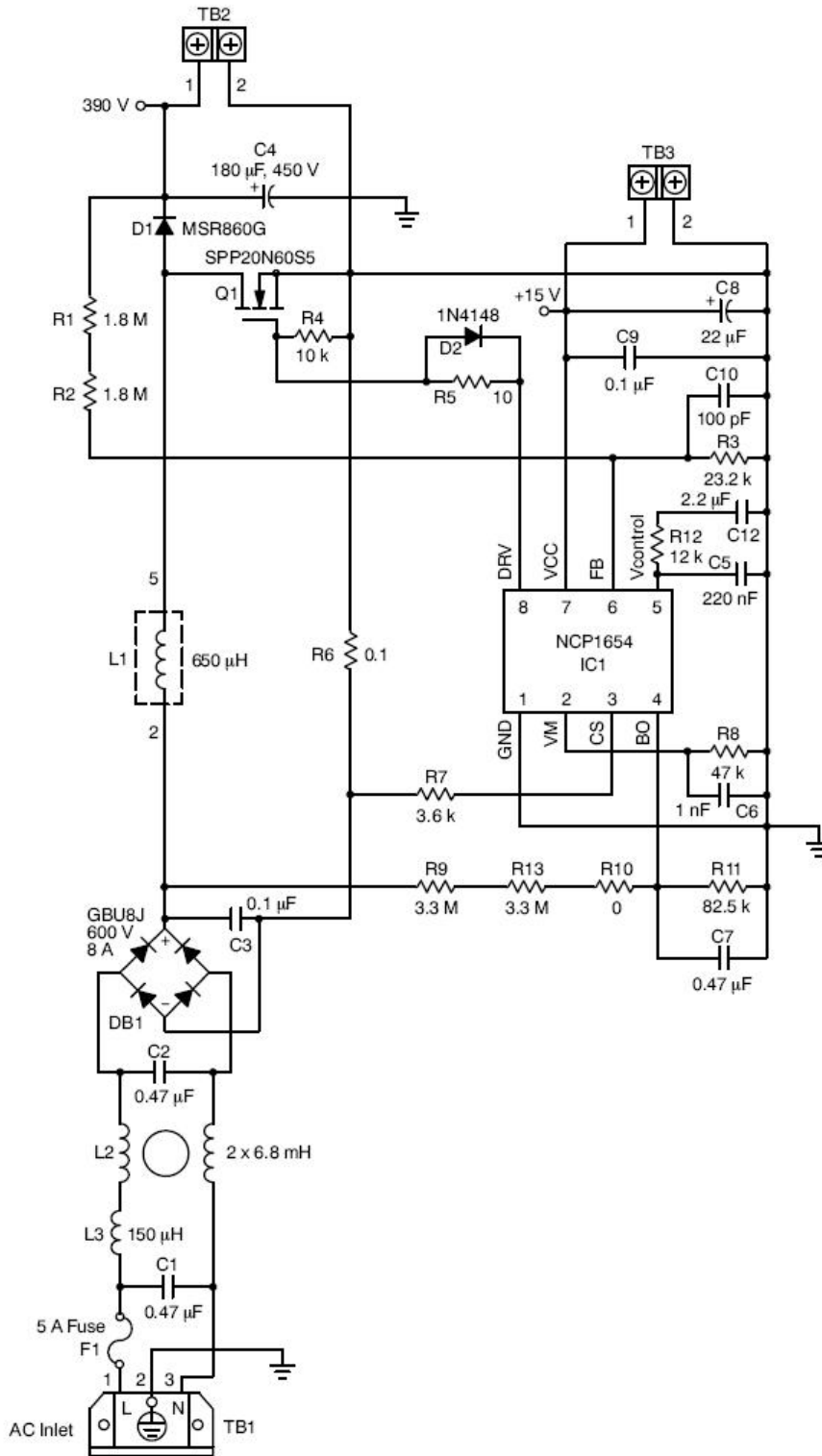
终端产品

- Desktop PCs
- Servers

器件电气规格

产品	Pricing (\$/Unit)	Compliance	Status	PFC Mode	Frequency Operation	Control Mode	Topology	f_{sw} Typ (kHz)	V_{cc} Max (V)	Drive Cap. (mA)	UVLO (V)	Latch	UVP	Inhibition	Package Type
NCP1654BD133R2G	0.4133	Pb-free Halide free	Active	CCM	Fixed	Current Mode	Step-Up	133	20	1500 / 1500	10.5 - 13.75	No	Yes	Yes	SOIC-8
NCP1654BD200R2G	0.6948	Pb-free Halide free	Active	CCM	Fixed	Current Mode	Step-Up	200	20	1500 / 1500	10.5 - 13.75	No	Yes	Yes	SOIC-8
NCP1654BD65R2G	0.4133	Pb-free Halide free	Active	CCM	Fixed	Current Mode	Step-Up	65	20	1500 / 1500	10.5 - 13.75	No	Yes	Yes	SOIC-8

应用框图



Application Schematic - 300 W 65 kHz
Power Factor Correction Circuit

欲了解更多信息，请联系您当地的销售支援 www.onsemi.cn。

创建于：8/5/2020