

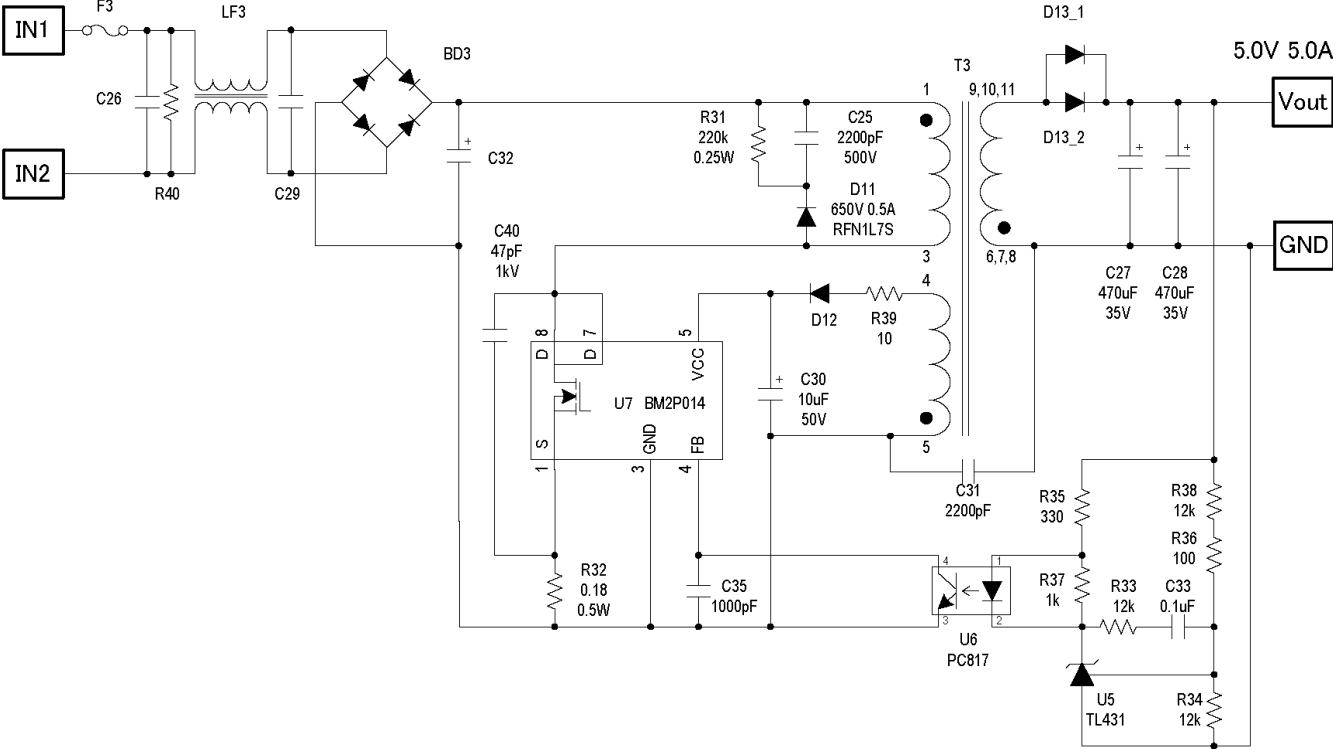
# AC/DC Converter Controller

## Application Information

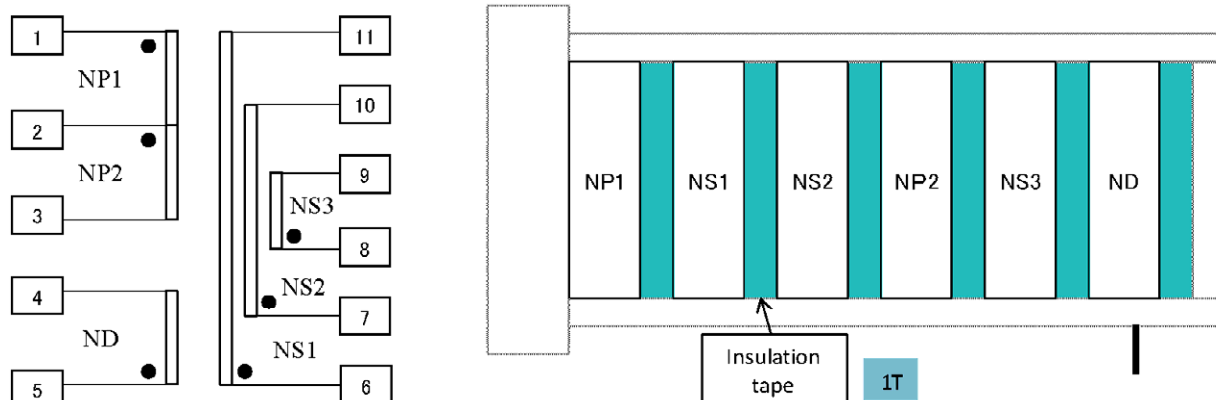
IC Product Name	BM2P014
Control Method	PWM
Input	170 Vac to 276 Vac
Output	5.0V 5.0A
Type	Isolation
Document Number	2-I-0500500-0001-00
Revision	001

# Reference Circuit

AC170V-276V



## Transformer Specification



Core: JFE MB3 EI25D or compatible

Bobbin: JFE BE25PP11 Vertical/Terminal Pins 5-6(11pins) or compatible

AL-Value: 63.4 nH/N<sup>2</sup>

Inductance(1-3pin): 0.146 mH±15%

Coil	Terminal	Turns	Wire	Winding Method
NP1	'1-2	24	2UEW 0.35	1 Layer FIT
NS1	'6-11	6	TEX-E 0.8	1 Layer 均等
NS2	'7-10	6	TEX-E 0.8	1 Layer 均等
NP2	'2-3	24	2UEW 0.35	1 Layer FIT
NS3	'8-9	6	TEX-E 0.8	1 Layer 均等
ND	'5-4	16	2UEW 0.35	1 Layer 均等

耐圧 P-S : AC3.0kVrms 1MIN. 2mA or AC3.6kVrms 1s 2mA

PS-CORE: AC1.5kVrms 1MIN. 2mA or AC1.8kVrms 1s 2mA

IR : P-S, PS-CORE 100 MΩ MIN. at DC 500V

巻始め: バリアテープ固定

巻終り: 直角引き出し挟み込み処理

巻方向: 統一

## Bill of Materials

Item	Spec	Parts name	Maker
BD3	800V/1A		
C25	2200pF/500V	CK45-B3AD222KY*N	TDK
C26	X-Cap		
C27	470uF/35V Low-Z	HD 470uF 35V	Nichicon
C28	470uF/35V Low-Z	HD 470uF 35V	Nichicon
C29	X-Cap		
C30	10uF/50V	PJ 10uF 50V	Nichicon
C31	2200pF/AC250V	CS11-E2GA222MYNS	TDK
C32	33uF/450V		
C33	0.1F/25V		
C35	1000pF/16V		
C40	47pF/1kV	CC45SL3AD470JYGN	TDK
D11	FRD 700V/0.5A	RFN1L7S	Rohm
D12	FRD 400V/0.5A	RF071L4S	Rohm
D13_1	SBD 90V/10A	RB085T-90	Rohm
D13_2	SBD 90V/10A	RB085T-90	Rohm
F3	Fuse		
LF3	CMC		
R31	220kΩ/0.25W	MCR25JZHJ224	Rohm
R32	0.18Ω/0.5W		
R33	1kΩ	MCR10EZPJ102	Rohm
R34	12kΩ	MCR10EZPF1202	Rohm
R35	330Ω	MCR10EZPJ331	Rohm
R36	100Ω	MCR10EZPJ100	Rohm
R37	1kΩ	MCR10EZPJ102	Rohm
R38	12kΩ	MCR10EZPF1202	Rohm
R39	10Ω/0.25W	MCR18EZPJ100	Rohm
R40	Discharge Resistor		
T3	EI25		
U5		TL431	
U6		PC817	SHARP
U7		BM2P014	Rohm

## Revision History

Date	Revision	Changes
7.Mar.2014	001	New Release

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JAPAN	USA	EU	CHINA
CLASS III	CLASS III	CLASS II b	CLASS III
CLASS IV		CLASS III	

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