

Specification for approval

Description(产品类型):	Encapsulated transformer
Customer(客户)p/n:	
ZETTLER(赛特勒) p/n:	BV30XXXX012
Revision(版本号):	A6
页 数/Page:	7

Drafted(制作): Li xiaoxu

Checked(审核): Chen chaolu

Approved(确认): He zongnian



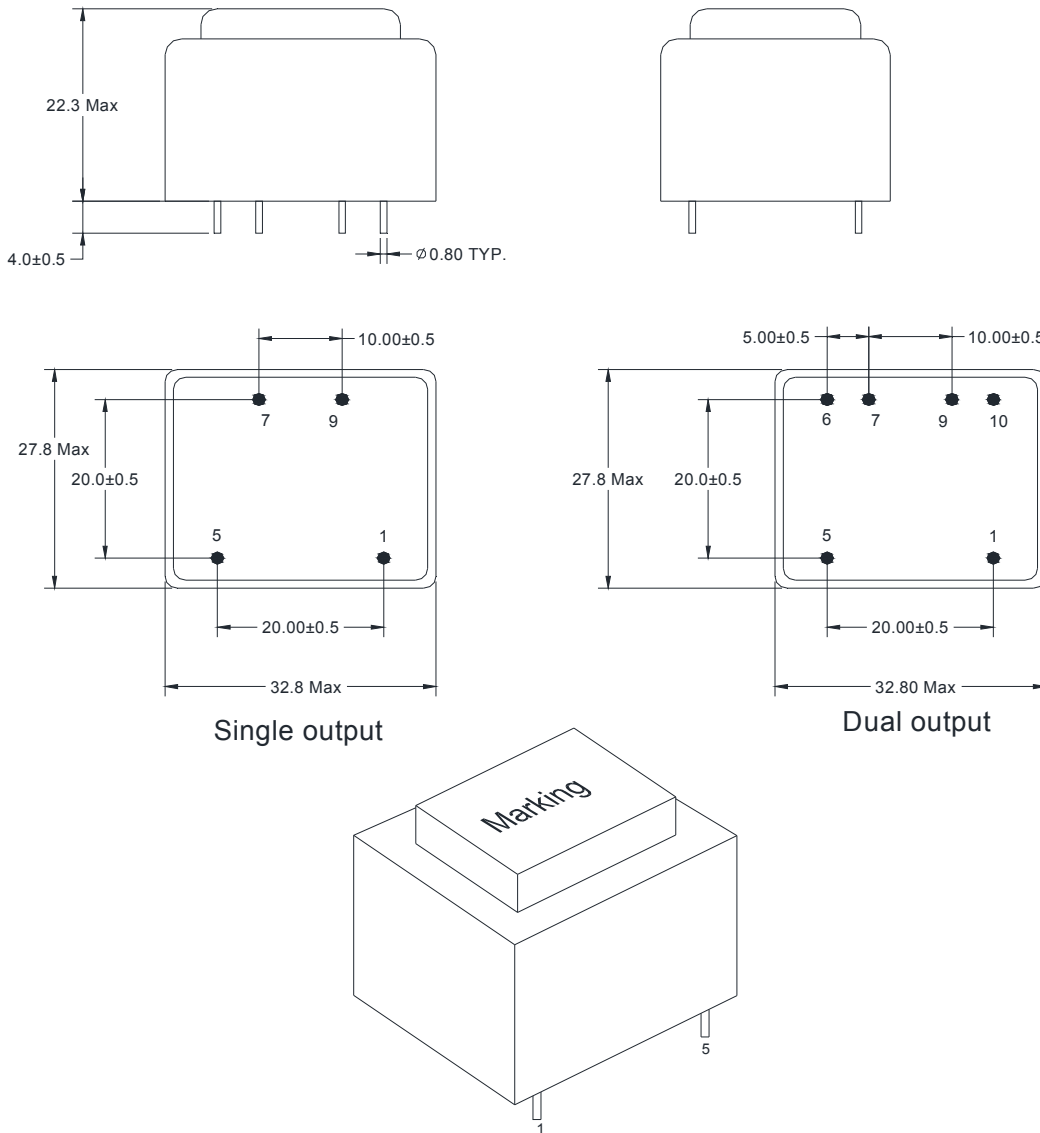
Rev.	Date	Description	Approved
A6	2022/7/20	Add BOM. Add VDE UL ambient TEMP. in the precautions for use Add UL and VDE file numbers	Li xiaoxu
A5	2022/3/4	Remove not CE conform parts for EU market	Stöckel
A4	2021/12/9	Add VDE and UL ambient TEMP. in the marking	Li xiaoxu
A3	2021/11/25	Add VDE and UL ambient TEMP. in the precautions for use.	Li xiaoxu
A2	2021/11/4	Add VDE logos into marking	Li xiaoxu
A1	2021/9/30	Merge the data code into the marking	Li xiaoxu
Rev.	Date	Description	Approved

Approved by Customer (客户确认) : _____

Friendly Reminder: Please help to sign this Spec when approve , and fax to our company .Or else, we will consider you have accepted it and make future order based on this Spec.

友情提示:请在签字确认后,按封面的传真号码回传给赛特勒磁电有限公司.如无回传,则视为默认,后续的相关订单将以按本承认书的规定为技术要求.

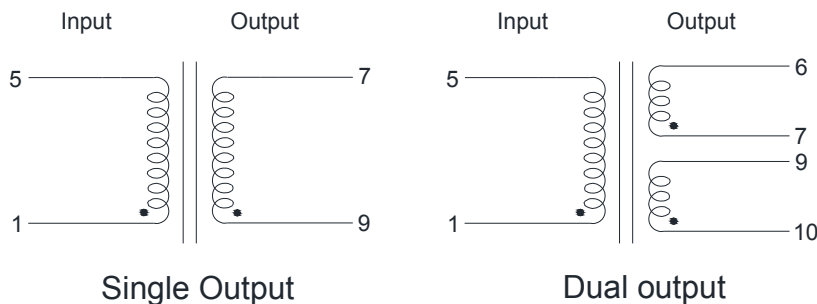
1、OUTLINE DRAWING(外形图):UNIT(单位): mm



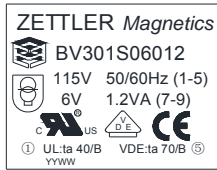
Notes :

- ◆ PCB opening aperture is recommended to be 1.3mm; (建议 PCB 开孔孔径为 1.3mm)
- ◆ If PIN layout and footprint have slightly deviation, please refer to actual PCB assembly, the ones can be normally inserted into PCB is qualified . (PIN 距、排距尺寸测量有偏差时, 以 PCB 下板实装确认, 可正常下板为合格)
- ◆ The Pin length doesn't include the solder tip (PIN 脚长度不包括锡尖)

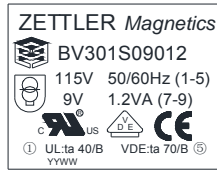
2、SCHEMATIC(原理图):



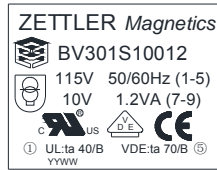
3、Marking (标签图)



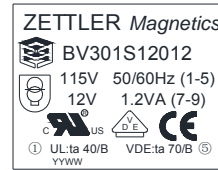
BV301S06012



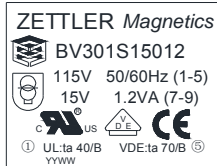
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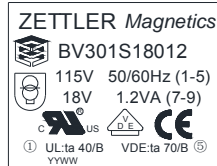
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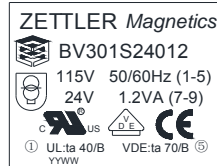
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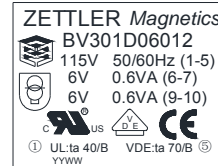
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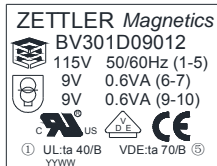
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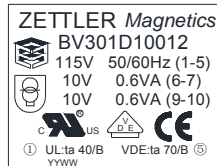
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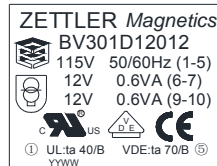
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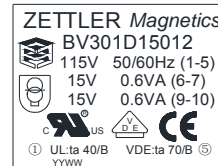
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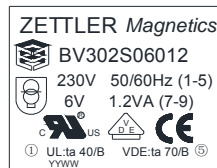
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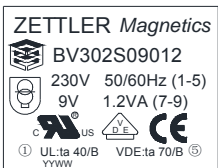
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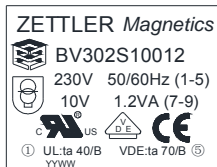
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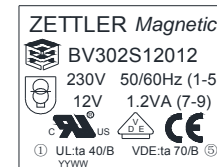
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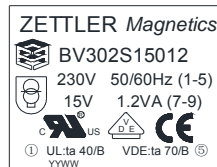
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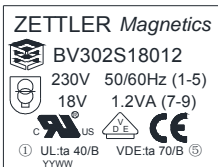
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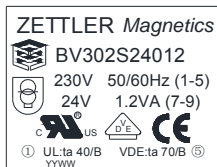
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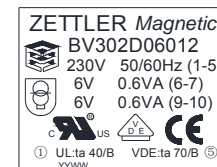
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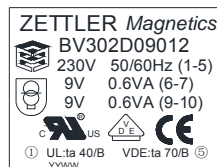
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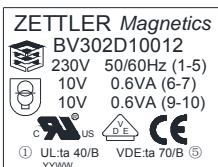
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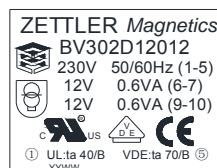
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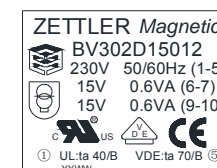
BV302D09012



BV302D10012



BV302D12012



BV302D15012

YY:Year WW:Week

4-1、ELECTRICAL SPECIFICATION(电气特性测试)(Single Output 单输出):

ITEM (项目)	EXCITATION CURRENT 空载电流(mA) Max	LOSS POWER 空载损耗 (W) Max	RATED LOAD VOLTAGE 负载电压 (V)	NO LOAD VOLTAGE 空载电压(V) max	HI-POT VOLTAGE 耐压	INSULATION RESISTANCE 绝缘阻抗	RESISTANCE 直流电阻(Ω)	
测试条件 TEST CONDITION	Input 输入:115V 50Hz		Input 输入:115V 50Hz		1mA/1S/ 50Hz	DC 500V 100MΩ	Ta=25°C	
端子 TERMINAL	1--5		7--9	7--9	P--S	P--S	1--5	7--9
BV301S06012	25	0.8	6.3±10% @ 200mA	9.3	2800V	DC 500V 100MΩ MIN	886±20%	7.4±20%
BV301S09012	25	0.8	9.5±10% @ 133mA	17			886±20%	18.5±20%
BV301S10012	25	0.8	10.5±10% @ 120mA	17			886±20%	18.5±20%
BV301S12012	25	0.8	12.5±10% @ 100mA	18.5			886±20%	29±20%
BV301S15012	25	0.8	15.5±10% @ 80mA	21.5			886±20%	47±20%
BV301S18012	25	0.8	18.8±10% @ 66.7mA	26.5			886±20%	66±20%
BV301S24012	25	0.8	25±10% @ 50mA	36			886±20%	127±20%
测试条件 TEST CONDITION	Input 输入:230V 50Hz		Input 输入:230V 50Hz				1mA/1S/ 50Hz	DC 500V 100MΩ
端子 TERMINAL	1--5		7--9	7--9	P--S	P--S	1--5	7--9
BV302S06012	15	0.8	6.3±10% @ 200mA	9.3	4200V	DC 500V 100MΩ MIN	3300±20%	7.4±20%
BV302S09012	15	0.8	9.5±10% @ 133mA	17			3300±20%	18.5±20%
BV302S10012	15	0.8	10.5±10% @ 120mA	17			3300±20%	18.5±20%

BV302S12012	15	0.8	12.5±10% @ 100mA	18.5			3300±20%	29±20%
BV302S15012	15	0.8	15.5±10% @ 80mA	21.5			3300±20%	47±20%
BV302S18012	15	0.8	18.8±10% @ 66.7mA	26.5			3300±20%	66±20%
BV302S24012	15	0.8	25±10% @ 50mA	36			3300±20%	127±20%

4-2、ELECTRICAL SPECIFICATION(电气特性测试)(Dual output 双输出):

ITEM (项目)	EXCITATION CURRENT 空载电流(mA) Max	LOSS POWER 空载损耗 (W) Max	RATED LOAD VOLTAGE 负载电压 (V)	NO LOAD VOLTAGE 空载电压(V) max	HI-POT VOLTAGE E 耐压	INSULATION RESISTANCE 绝缘阻抗	RESISTANCE 直流电阻(Ω)		
测试条件 TEST CONDITION	Input 输入:115V 50Hz		Input 输入:115V 50Hz		1mA/1S/ 50Hz	DC 500V 100MΩ	Ta=25℃		
端子 TERMINAL	1--5		6--7 9--10	6--7 9--10	P--S	P--S	1--5	6--7	9--10
BV301D06012	25	0.8	2×6.3±10% @ 2×100mA	2×9.3	2800V	DC 500V 100MΩ MIN	886±20%	16±20%	14±20%
BV301D09012	25	0.8	2×9.5±10% @ 2×66.5mA	2×17			886±20%	44.4±20%	40.1±20%
BV301D10012	25	0.8	2×10.5±10% @ 2×60mA	2×17			886±20%	44.4±20%	40.1±20%
BV301D12012	25	0.8	2×12.5±10% @ 2×50mA	2×18.5			886±20%	58.7±20%	49.5±20%
BV301D15012	25	0.8	2×15.5±10% @ 2×40mA	2×21.5			886±20%	103±20%	93±20%

测试条件 TEST CONDITION	Input 输入:230V 50Hz		Input 输入:230V 50Hz		1mA/1S/ 50Hz	DC 500V 100MΩ	Ta=25°C		
端子 TERMINAL	1--5		6--7 9--10	6--7 9--10	P--S	P--S	1--5	6--7	9--10
BV302D06012	15	0.8	2×6.3±10% @ 2×100mA	2×9.3	4200V	DC 500V 100MΩ MIN	3300±20%	16±20%	14±20%
BV302D09012	15	0.8	2×9.5±10% @ 2×66.5mA	2×17			3300±20%	44.4±20%	40.1±20%
BV302D10012	15	0.8	2×10.5±10% @ 2×60mA	2×17			3300±20%	44.4±20%	40.1±20%
BV302D12012	15	0.8	2×12.5±10% @ 2×50mA	2×18.5			3300±20%	58.7±20%	49.5±20%
BV302D15012	15	0.8	2×15.5±10% @ 2×40mA	2×21.5			3300±20%	103±20%	93±20%

5、PRECAUTIONS FOR USE (产品使用注意事项):

Ambient temperature range(使用环境温度范围): -25~+70°C

Storage temperature range(保存温度范围): -25~+85°C

Ambient TEMP.(VDE): ta 70/B

Ambient TEMP.(UL): ta 40/B

UL 认证号/ UL file No.: E177998

VDE 认证号/VDE file No.: 40022230

6. BOM (材料表):

NO. 序号	MATERIAL TYPE 材料名称	DESCRIPTION 规格描述	SUPPLIERS 供应商	UL NO. 认证号
1	BOBBIN	PBT 4130 94V-0	CHANG CHUN PLASICS CO LTD	E59481
		PA66 A3X2G5, (94-V0)	BASF SE	E41871
2	CASE	PBT 4130 94V-0	CHANG CHUN PLASICS CO LTD	E59481
		PA66 A3X2G5, (94-V0)	BASF SE	E41871
3	WIRE	UEW	ELEKTRISOLA HANGZHOU CO LTD TA YA ELECTRIC LTD YICHI NingBo XINJIAN ELECTRONICS INDUSTRY CO., LTD	E258243 E197768 E363385 E197317
4	GLUE	PU552FL	WEVO-CHEMIE GMBH	E108835
		7800AR(*)/7800BR(#)	WUXI EAST-GRACE ELECTRONIC MATERIAL TECHNOLOGY CO LTD	E309982