

Specification for approval

Description(产品类型):	Encapsulated transformer
Customer(客户)p/n:	
ZETTLER(赛特勒) p/n:	BV30XXXX018
Revision(版本号):	A4
页 数/Page:	7

Drafted(制作): Li xiaoxu

Checked(审核): Chen chaolu

Approved(确认): He zongnian



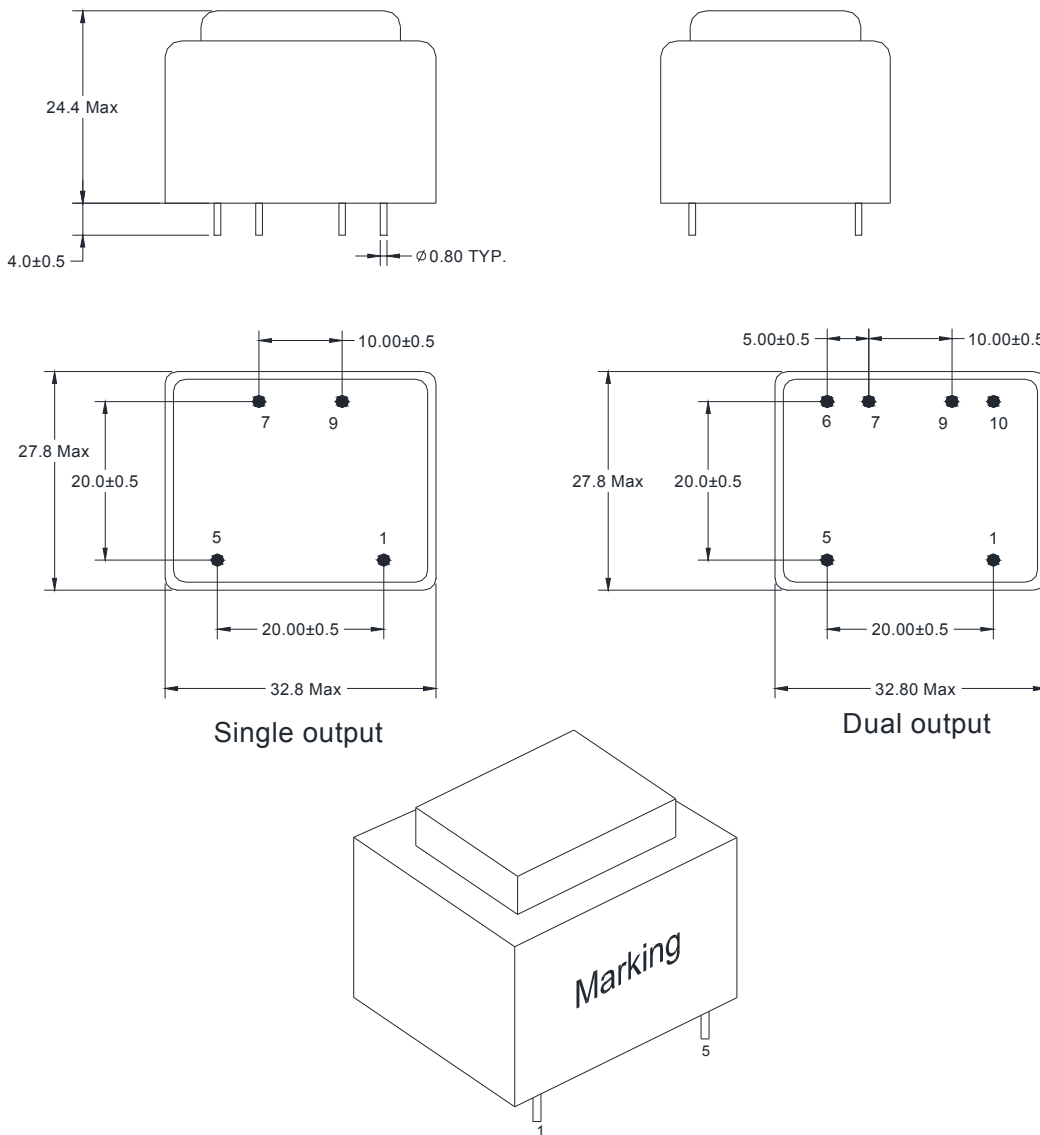
A4	2022/7/19	Add BOM. Add VDE UL ambient TEMP. in the precautions for use Add UL,VDE and CQC file numbers	Li xiaoxu
A3	2022/4/25	Add VDE ambient TEMP. in the marking	Li xiaoxu
A2	2022/3/4	Remove not CE conform parts for EU market	Stöckel
A1	2021/6/10	Merge the data code into the marking	Li xiaoxu
Rev.	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.

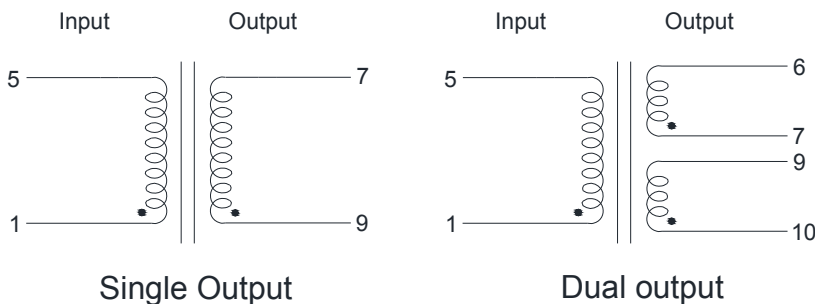
1、OUTLINE DRAWING(外形图):UNIT(单位): mm



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)

<p>BV301S06018</p> <p>ZETTLER Magnetics BV301S06018</p> <p>PRI:115VAC 50/60Hz(1-5) SEC:6VAC 1.8VA (7-9)</p> <p>VDE:ta 40/B</p>	<p>BV301S09018</p> <p>ZETTLER Magnetics BV301S09018</p> <p>PRI:115VAC 50/60Hz(1-5) SEC:9VAC 1.8VA (7-9)</p> <p>VDE:ta 40/B</p>	<p>BV301S10018</p> <p>ZETTLER Magnetics BV301S10018</p> <p>PRI:115VAC 50/60Hz(1-5) SEC:10VAC 1.8VA (7-9)</p> <p>VDE:ta 40/B</p>	<p>BV301S12018</p> <p>ZETTLER Magnetics BV301S12018</p> <p>PRI:115VAC 50/60Hz(1-5) SEC:12VAC 1.8VA (7-9)</p> <p>VDE:ta 40/B</p>
<p>BV301S15018</p> <p>ZETTLER Magnetics BV301S15018</p> <p>PRI:115VAC 50/60Hz(1-5) SEC:15VAC 1.8VA (7-9)</p> <p>VDE:ta 40/B</p>	<p>BV301S18018</p> <p>ZETTLER Magnetics BV301S18018</p> <p>PRI:115VAC 50/60Hz(1-5) SEC:18VAC 1.8VA (7-9)</p> <p>VDE:ta 40/B</p>	<p>BV301S24018</p> <p>ZETTLER Magnetics BV301S24018</p> <p>PRI:115VAC 50/60Hz(1-5) SEC:24VAC 1.8VA (7-9)</p> <p>VDE:ta 40/B</p>	<p>BV301D06018</p> <p>ZETTLER Magnetics BV301D06018</p> <p>PRI:115VAC 50/60Hz(1-5) SEC:6VAC 0.9VA (6-7) 6VAC 0.9VA (9-10)</p> <p>VDE:ta 40/B</p>
<p>BV301D09018</p> <p>ZETTLER Magnetics BV301D09018</p> <p>PRI:115VAC 50/60Hz(1-5) SEC:9VAC 0.9VA (6-7) 9VAC 0.9VA (9-10)</p> <p>VDE:ta 40/B</p>	<p>BV301D10018</p> <p>ZETTLER Magnetics BV301D10018</p> <p>PRI:115VAC 50/60Hz(1-5) SEC:10VAC 0.9VA (6-7) 10VAC 0.9VA (9-10)</p> <p>VDE:ta 40/B</p>	<p>BV301D12018</p> <p>ZETTLER Magnetics BV301D12018</p> <p>PRI:115VAC 50/60Hz(1-5) SEC:12VAC 0.9VA (6-7) 12VAC 0.9VA (9-10)</p> <p>VDE:ta 40/B</p>	<p>BV301D15018</p> <p>ZETTLER Magnetics BV301D15018</p> <p>PRI:115VAC 50/60Hz(1-5) SEC:15VAC 0.9VA (6-7) 15VAC 0.9VA (9-10)</p> <p>VDE:ta 40/B</p>
		<p>BV302S06018</p> <p>ZETTLER Magnetics BV302S06018</p> <p>PRI:230VAC 50/60Hz(1-5) SEC:6VAC 1.8VA (7-9)</p> <p>VDE:ta 40/B</p>	<p>BV302S09018</p> <p>ZETTLER Magnetics BV302S09018</p> <p>PRI:230VAC 50/60Hz(1-5) SEC:9VAC 1.8VA (7-9)</p> <p>VDE:ta 40/B</p>
<p>BV302S10018</p> <p>ZETTLER Magnetics BV302S10018</p> <p>PRI:230VAC 50/60Hz(1-5) SEC:10VAC 1.8VA (7-9)</p> <p>VDE:ta 40/B</p>	<p>BV302S12018</p> <p>ZETTLER Magnetics BV302S12018</p> <p>PRI:230VAC 50/60Hz(1-5) SEC:12VAC 1.8VA (7-9)</p> <p>VDE:ta 40/B</p>	<p>BV302S15018</p> <p>ZETTLER Magnetics BV302S15018</p> <p>PRI:230VAC 50/60Hz(1-5) SEC:15VAC 1.8VA (7-9)</p> <p>VDE:ta 40/B</p>	<p>BV302S18018</p> <p>ZETTLER Magnetics BV302S18018</p> <p>PRI:230VAC 50/60Hz(1-5) SEC:18VAC 1.8VA (7-9)</p> <p>VDE:ta 40/B</p>
<p>BV302S24018</p> <p>ZETTLER Magnetics BV302S24018</p> <p>PRI:230VAC 50/60Hz(1-5) SEC:24VAC 1.8VA (7-9)</p> <p>VDE:ta 40/B</p>	<p>BV302D06018</p> <p>ZETTLER Magnetics BV302D06018</p> <p>PRI:230VAC 50/60Hz(1-5) SEC:6VAC 0.9VA (6-7) 6VAC 0.9VA (9-10)</p> <p>VDE:ta 40/B</p>	<p>BV302D09018</p> <p>ZETTLER Magnetics BV302D09018</p> <p>PRI:230VAC 50/60Hz(1-5) SEC:9VAC 0.9VA (6-7) 9VAC 0.9VA (9-10)</p> <p>VDE:ta 40/B</p>	<p>BV302D10018</p> <p>ZETTLER Magnetics BV302D10018</p> <p>PRI:230VAC 50/60Hz(1-5) SEC:10VAC 0.9VA (6-7) 10VAC 0.9VA (9-10)</p> <p>VDE:ta 40/B</p>
<p>BV302D12018</p> <p>ZETTLER Magnetics BV302D12018</p> <p>PRI:230VAC 50/60Hz(1-5) SEC:12VAC 0.9VA (6-7) 12VAC 0.9VA (9-10)</p> <p>VDE:ta 40/B</p>	<p>BV302D15018</p> <p>ZETTLER Magnetics BV302D15018</p> <p>PRI:230VAC 50/60Hz(1-5) SEC:15VAC 0.9VA (6-7) 15VAC 0.9VA (9-10)</p> <p>VDE:ta 40/B</p>		

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
BV301S06018	24	0.9	6±10% @ 300mA	9.8	2800V	DC 500V 100MΩ MIN	762±30%	6.4±30%
BV301S09018	24	0.9	9±10% @ 200mA	14.8			762±30%	15±30%
BV301S10018	24	0.9	10±10% @ 180mA	15.5			762±30%	15±30%
BV301S12018	24	0.9	12±10% @ 150mA	19.7			762±30%	25.1±30%
BV301S15018	24	0.9	15±10% @ 120mA	24.6			762±30%	40.9±30%
BV301S18018	24	0.9	18±10% @ 100mA	30.3			762±30%	62.4±30%
BV301S24018	24	0.9	24±10% @ 75mA	39.3			762±30%	104±30%
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
BV302S06018	12	0.9	6±10% @ 300mA	9.8	4200V	DC 500V 100MΩ MIN	3000±30%	6.4±30%
BV302S09018	12	0.9	9±10% @ 200mA	14.8			3000±30%	15±30%
BV302S10018	12	0.9	10±10% @ 180mA	15.5			3000±30%	15±30%

BV302S12018	12	0.9	12±10% @ 150mA	19.7			3000±30%	25.1±30%
BV302S15018	12	0.9	15±10% @ 120mA	24.6			3000±30%	40.9±30%
BV302S18018	12	0.9	18±10% @ 100mA	30.3			3000±30%	62.4±30%
BV302S24018	12	0.9	24±10% @ 75mA	39.3			3000±30%	104±30%

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
BV301D06018	24	0.9	2×6±10%@ 2×150mA	2×9.8	2800V	DC 500V 100MΩ MIN	760±30%	13.8±30%	12±30%
BV301D09018	24	0.9	2×9±10%@ 2×100mA	2×15.2			760±30%	33.2±30%	29.1±30%
BV301D10018	24	0.9	2×10±10%@ 2×90mA	2×15.8			760±30%	33.2±30%	29.1±30%
BV301D12018	24	0.9	2×12±10%@ 2×75mA	2×19.7			760±30%	54.5±30%	47.5±30%
BV301D15018	24	0.9	2×15±10%@ 2×60mA	2×24.6			760±30%	86.8±30%	75.3±30%

测试条件 TEST CONDITION	Input 输入:230V 50Hz		Input 输入:230V 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
BV302D06018	12	0.9	2×6±10%@ 2×150mA	2×9.8	4200V	DC 500V 100MΩ MIN	3000±30%	13.8±30%	12±30%
BV302D09018	12	0.9	2×9±10%@ 2×100mA	2×15.2			3000±30%	33.2±30%	29.1±30%
BV302D10018	12	0.9	2×10±10%@ 2×90mA	2×15.8			3000±30%	33.2±30%	29.1±30%
BV302D12018	12	0.9	2×12±10%@ 2×75mA	2×19.7			3000±30%	54.5±30%	47.5±30%
BV302D15018	12	0.9	2×15±10%@ 2×60mA	2×24.6			3000±30%	86.8±30%	75.3±30%

5、PRECAUTIONS FOR USE (产品使用注意事项):

Ambient temperature range(使用环境温度范围): -25~+40℃

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

Ambient TEMP.(VDE): ta 40/B

Ambient TEMP.(UL): ta 40/B

UL 认证号/ UL file No.: E177998

VDE 认证号/VDE file No.: 40022230

CQC 认证号/CQC file No.: CQC09001030821

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