承　　认　　书
APPROVAL　SHEET

编　号 No.	2471100100-A/3-B
日期 Date	2020.07.01

客　　户 Customer	

品　　名 Product	**2410 Size Brick Fuse**
系　　列 Series	**247　Series**

料号 Part No.		规格描述 Specification	备注 Remark
贝特电子 Betterfuse		2410 Low BC,Fast-Acting current fuse 125VAC/DC	
客　　户 Customer			

环保特别提示 Special instructions for environmental protection
本产品：

供应商-贝特电子 Supplier-Betterfuse		零件承认章 Approval Signet	客　　户 Customer	零件承认章 Approval Signet
制　作 Make				
审　核 Check				
确　认 Approval				

联络 Contact			
业务 Sales	电话 Telephone	手机 Cellphone	邮箱 E-mail
零件承认后敬请回签一份给我司留存，或将承认后的封面传真（0769-8352 1857）至我司，谢谢！			

Document Record						
No.	Date	Modified Content	Page	Edition	Prepared/modified by	Checked by
1	2016.09.09	Draft		A/0	Jeffery	Ning Luo
2	2018.05.28	Update current		A/1	J.Q.	Fei Gao
3	2019.02.21	Update Breaking Capacity	7	A/2	Xiang Xiong	Fei Gao
4	2020.07.01	Update content		A/3	YaLan Wang	Fei Gao
5						
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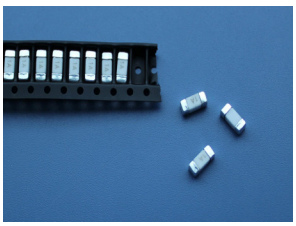
1. SCOPE AND DESCRIPTION



Following electronic product specifications apply to fuses of the 247 series. The 247 series is a fast-acting type brick fuse for over-current protection.

As the fast-acting characteristics these fuses can resist inrush current. And widely used in notebook PC, telecom system, LCD/PDP TV, wireless goods, LCD monitor, white goods, LCD/PDP panel, game console, power supply, net working and other electronics products.

2. GENERAL INFORMATION

General Description

247 brick fuse for the small size and good electrical performance, reliability and quality. The solder-free design provides excellent on-off and temperature cycling characteristics during use and also makes our brick fuses more heat and shock tolerant than typical brick fuses.

Detailed Features

- Rapid interruption of excessive current
- Compatible with reflow and wave soldering
- Ceramic body and siler plated copper terminal
- Excellent environmental integrity
- One time positive disconnect
- Lead-free, Halogen-free, RoHS compliant
- Designed to UL 248-14
- Compliant to Better's environment standard of <Technical Standard of Environmental management substances>

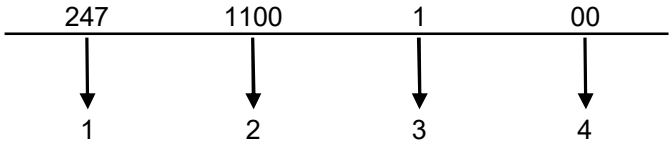
3. AGENCY APPROVALS

Agency	Agency File Number	Ampere/ Voltage Range
c UL us	E300003	125VAC: 250mA~1.5A 125VDC: 250mA~1.5A

4. PART NUMBERING SYSTEM

4.1 Part Number

Example: 2471100100



1 ……Foot print…… 247
2 ……Ampere Rating…… 1A (see table 4.2 below)
3 ……Max. Voltage Rating…… 1: 125V
4 ……Supplementary Code…… Complement code

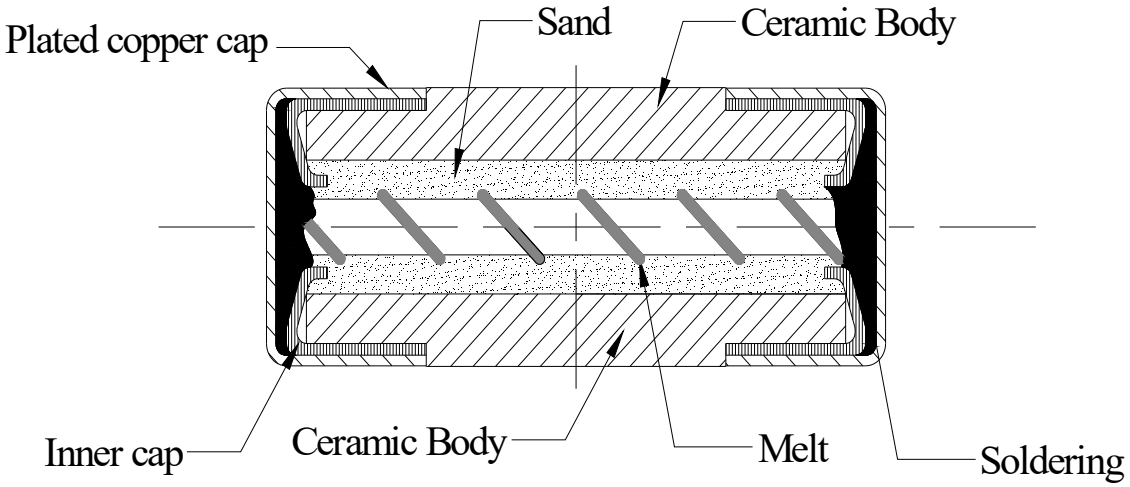
4.2. Ampere / Voltage Rating Table

AMP CODE	CURRENT RATING	VOLTAGE RATING
0250	250mA	125V AC;125V DC
0315	315mA	125V AC;125V DC
0375	375mA	125V AC;125V DC
0500	500mA	125V AC;125V DC
0750	750mA	125V AC;125V DC
0800	800mA	125V AC;125V DC
1100	1.00A	125V AC;125V DC
1150	1.50A	125V AC;125V DC

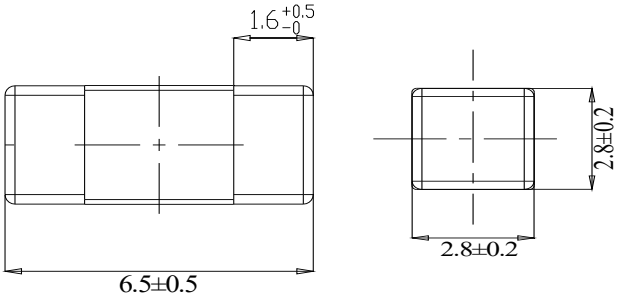
4.2 Supplementary Code Table

CODE	DESIGNATION
00	Tape-and-reel

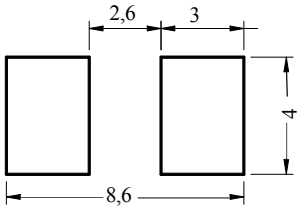
5. MECHANICAL SPECIFICATIONS



Dimensions (units: mm)



Recommended Land Pattern Unit: mm



Operating Temperature:

-55°C to +125°C

Storage Conditions:

+10℃ to +60℃

Relative humidity: ≤ 75% yearly average

without dew, maximum 30 days at 95%

Vibration Resistance:

24 cycles at 15 min. each (60068-6)

10-60Hz at 0.75mm amplitude

60-2000Hz at 10g acceleration

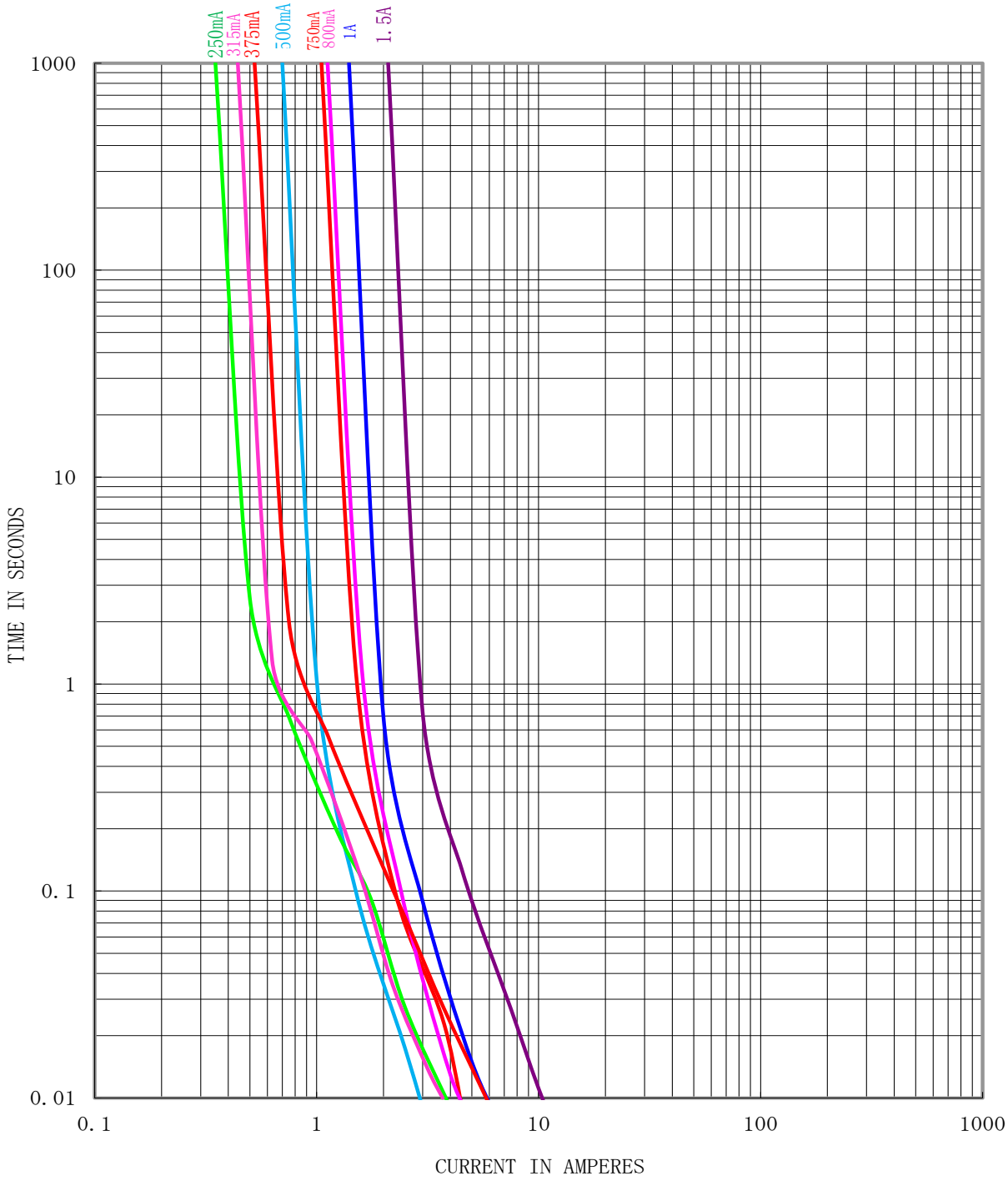
6. ELECTRICAL SPECIFICATIONS

Time vs Current Characteristics Table

(measured with constant current power supply)

Time vs Current Characteristics: UL248-14		
Rated current	100%	200%
250mA~1.5A	>4h	<5s

Average Time Current (I-T Curve)



Electrical characteristics

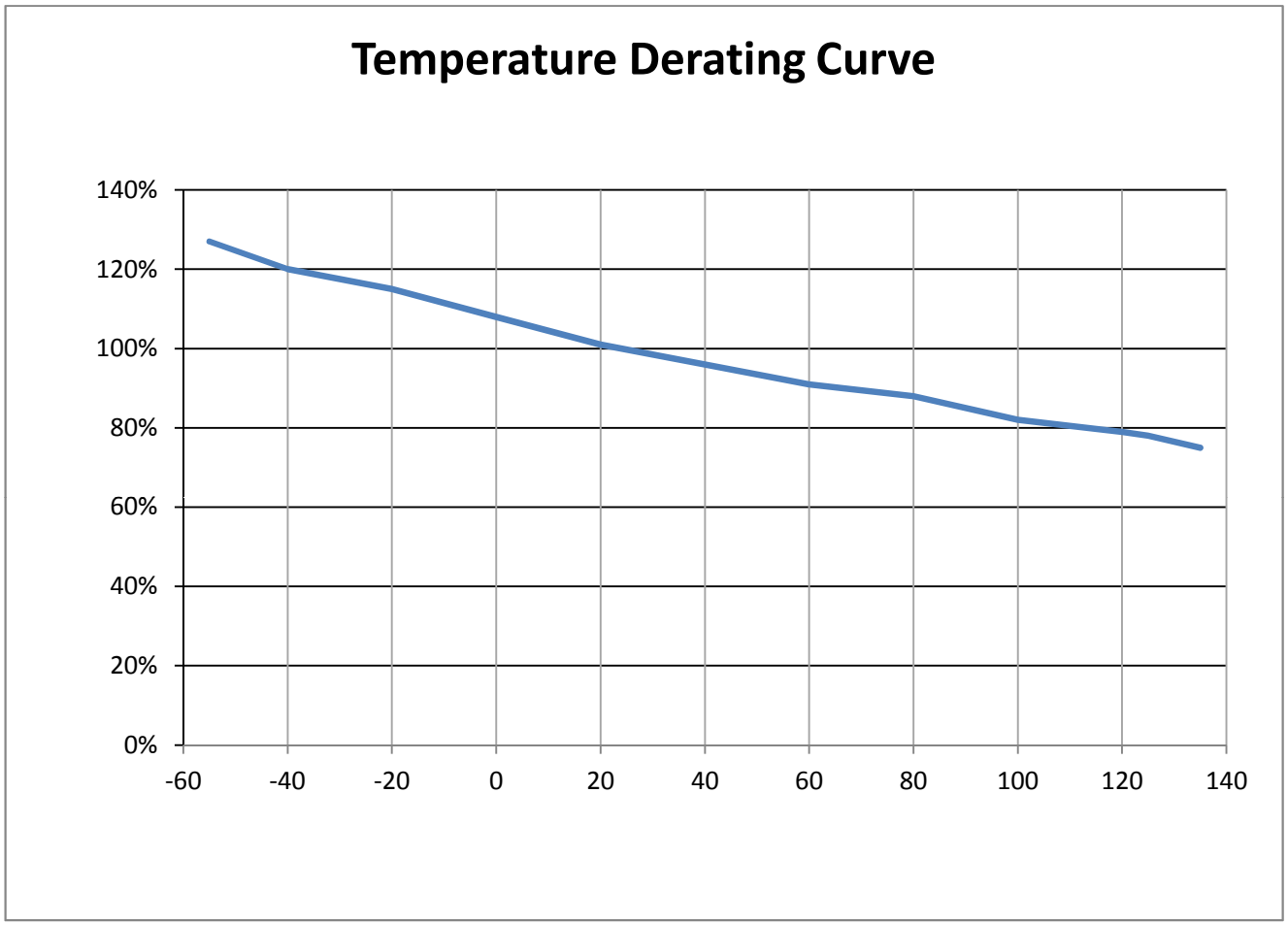
Electrical Characteristics at 25℃							
Amp Code	Rated Current	Rated Voltage	Breaking Capacity	Typical Voltage Drop (mV)	Nominal Melting I²t(A²sec)	Cold Resistance (mΩ)	Approvals
							cURus
0250	250mA	125V AC 125V DC	100A@125V AC 50A@125V DC	300	0.144	519.4~964.6	●
0315	315mA			300	0.137	361.2~670.8	●
0375	375mA			300	0.335	275.1~510.9	●
0500	500mA			600	0.090	520.1~965.9	●
0750	750mA			500	0.160	280.7~521.3	●
0800	800mA			500	0.203	238.7~443.3	●
1100	1.00A			500	0.900	172.9~321.1	●
1150	1.50A			350	1.069	100.8~187.2	●

Note: (1) Permissible continuous operating current is ≤100% at ambient temperature of 23°C (73.4°F).

(2) The current values used for calculating I2T should be 8~10ms.

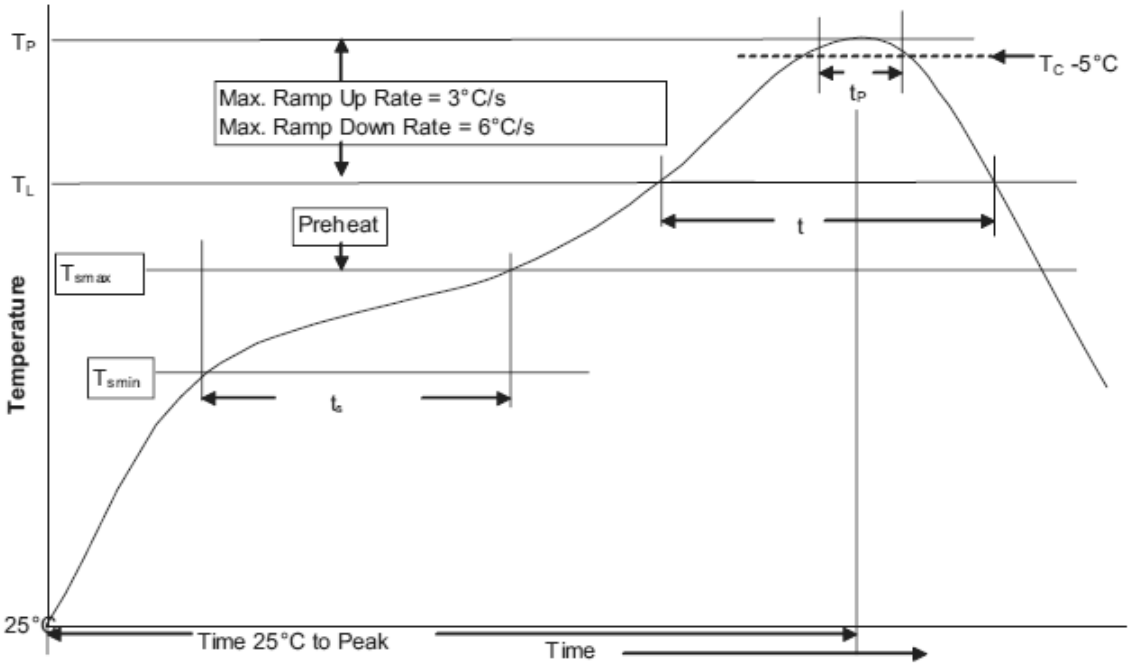
(3) The product without sand when the current is no more than 375mA.

Temperature Derating Curve



$$\text{Calculation for ideal fuse selection} = \frac{\text{Operating Current (A)}}{\text{Rating (\%} \times 0.75)}$$

7. SOLDERING PARAMETERS



1.Infrared Reflow:

Temperature:260℃

Time:30sec Max.

Recommend reflow profile

2.Wave Soldering

Reservoir Temperature:260℃

Time in Reservoir:10sec Max.

Profile Feature		Lead (Pb)free solder
Average Ramp-UP Rate（Tsmax to Tp)		3℃/s Max.
Preheat and soak	Temperature min.(Tsmin)	150℃
	Temperature max.(Tsmax)	200℃
	Time (Tsmin to Tsmax)(ts)	60~120s
Liquidous temperature(TL) Time at liquidous(tL)		217℃ 60~150s
Peak package body temperature(Tp)		260℃
Time (tP) within 5℃ of the specified classification temperature (Tc)		30s
Average ramp-down rate (Tp to Tsmax)		6℃/s Max.
Time (25℃ to Peak Temperature)		8 Minutes Max.

8. ORDERING INFORMATION

The following information are necessary in order to place your order with us correctly:

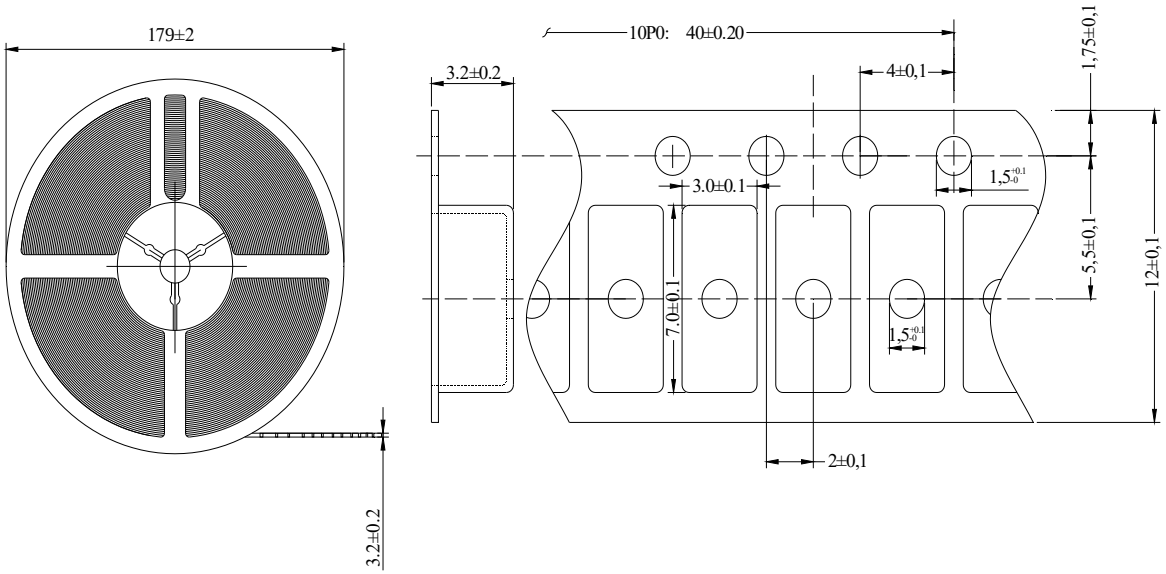
Series	Amp Code	Supplementary Code	Qty
247			

PACKING INFORMATION

Taping detail

Unit:mm

Packing



Quantity per reel	1000pcs	Weight per reel	234.5g

东莞市贝特电子科技股份有限公司
Room 601 of 16 Block, Xinzhuyuan, No.4，Xinzhu Road, Songshanlake Hightech Industrial Development Zone, Dongguan City, Guangdong P.R.C
中国广东省东莞市松山湖国家高新技术产业开发区新竹路 4 号新竹苑 16 座办公 601

Tel: +86 769-2307 8212 Fax: +86 769-8352 1857

Web: **www.betterfuse.com** Email: info@betterfuse.com

ONLINE CERTIFICATIONS DIRECTORY

JDYX2.E300003
Fuses, Supplemental - Component

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Fuses, Supplemental - Component

See General Information for Fuses, Supplemental - Component

DONGGUAN BETTER ELECTRONICS TECHNOLOGY CO LTD E300003
Rm 601 Of 16 Blk
Xinzhuyuan No 4 Xinzhu Rd
Songshanlake Hightech Industrial Development Zone
Dongguan, Guangdong 523808 CHINA

Supplemental micro fuses

Cat. No.	Size mm(in)	Amps (A)	Volts (V)	Interrupting Rating (A)
061	1.6 x 0.81 x 0.48 (0.06 x 0.03 x 0.02)	0.25 - 1	32Vdc	50
		1.25 - 5	32Vdc	35
063	1.6 x 0.81 x 0.48 (0.06 x 0.03 x 0.02)	1 - 5	32Vdc	50
244, 245, 246 and 247				
	6.5 x 2.8 x 2.8 (0.26 x 0.11 x 0.11)	0.25 - 7	125Vac	100
		0.25 - 7	250Vac	100
		0.25 - 7	350Vac	50
		0.25 - 7	125Vdc	50

Marking: Company name and model designation.
Last Updated on 2016-08-08

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