



# DATA SHEET

## PCB Relay 20x20x16mm

### Serie: P12003

**PCB Relay 20x20x16mm**

Serie No.: **P12003**

Customer:

DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	08.06.2011
APPD:	Schumi			FINISH	Jamy		Sheet No.		1 from 7

# EDCON-COMPONENTS



## Technical Informations

### Features

Small Size, Light Weight,  
 Low Coil Power Consumption  
 Switching capacity to max. xxA  
 PC Board Mounting  
 Suitable for household electrical appliance, automation systems, electronic equipment, instrument and meter application, TV-5, TV-8 Remete control receivers, monitors, dispalys, audio equipment, high and rushing current application.

Contact Form:	1A / 1C
Contact Material:	Ag Alloy
Contact Ratings:	Form 1A: 12A 240VAC / 15A/120VAC 10A/28VDC Form 1C: 10A 240VAC / 12A/120VAC 10A/28VDC
Max. Switching Voltage:	250VAC/30VDC
Max Switching Current:	20A
Max. Switching Power:	2400VA/240W
Initial Contact Resistance:	50mΩ Max. At 6VDC 1A
Life Expectancy Electrical	100.000 Operations (rated load)
Life Expectancy Mechanical:	10.000.000 Operations (no load)

### General technical Data

Insulation Resistance	100MΩ min at 500VDC	
Dielectric Strength Between open Contacts	750VAC 50~60Hz ( 1minute)	
Dielectric Strength Between Contacts and Coil	1500VAC 50~60Hz ( 1minute)	
Operating time	10ms max.	
Release time	5ms max.	
Ambient Temperature	. -40°C ~ +85°C	
Shock Resistance	Malfunction	10G
	Destruction	100G
Vibration Resistance	10-55Hz, 1,5mm double amplitude	
Ambient humidity	40~85% RH	
Weight	Approx 13gr.	

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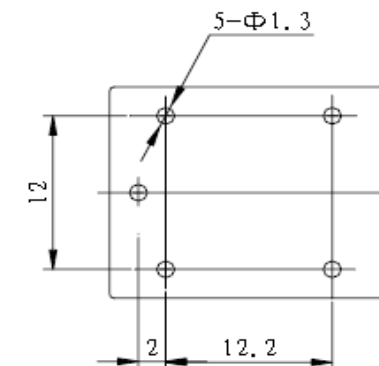
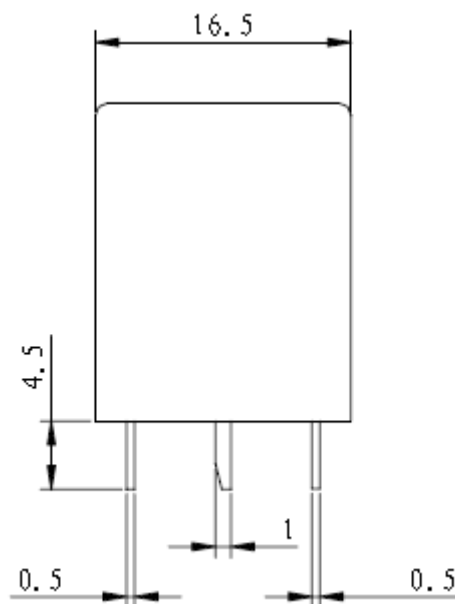
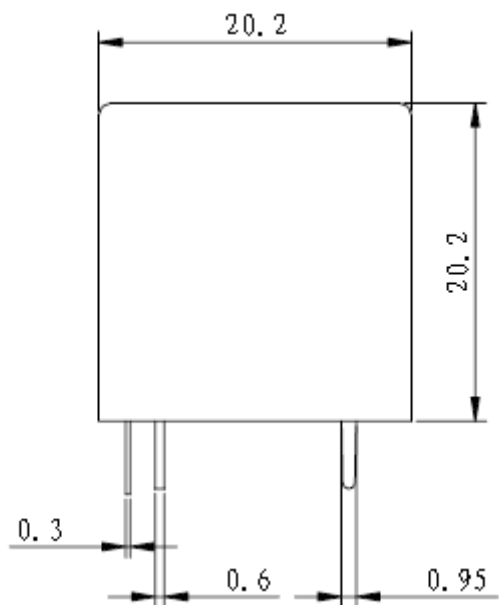
[www.edcon-components.com](http://www.edcon-components.com)

email: [info@edcon-components.com](mailto:info@edcon-components.com)

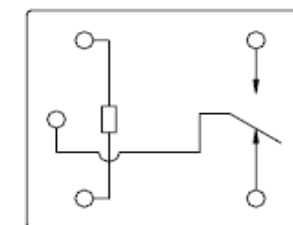
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## Technical Dimensions



PCB Layout ( Bottom View)



Wiring Diagramm

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## Coil Voltage + Parameter

Rated Voltage (VDC)	Coil Voltage		Coil Resistance $\Omega$ ( $\pm 10\%$ ) of Coil Power		Pickup Voltage (VDC)	Release Voltage (VDC)	Operate Time (ms)	Release Time (ms)	
	Rated	Max.		0,36W					0,51W
003	3	3,9		25		2,25	0,15	$\leq 15$	$\leq 5$
005	5	6,5		70		3,75	0,25	$\leq 15$	$\leq 5$
006	6	7,8		100		4,5	0,3	$\leq 15$	$\leq 5$
009	9	11,7		225		6,75	0,45	$\leq 15$	$\leq 5$
012	12	15,6		400		9	0,6	$\leq 15$	$\leq 5$
015	15	18,1				12	0,9	$\leq 15$	$\leq 5$
024	24	31,2		1600		18	1,2	$\leq 15$	$\leq 5$
048	48	62,4		6400 $\pm 15\%$	4500 $\pm 15\%$	36	2,4	$\leq 15$	$\leq 5$

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## Delivery of contact forms

## Approvals



Form 1A

Form 1B



Form 1C

Safety Approvals	UL & UR	VDE	TÜV
	E220153	NO	NO

Safety Approvals	CQC		
	CQC04001010234		

Form 3A

Form 3B

Form 3C

Form 2A

Form 2B

Form 2C

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# EDCON-COMPONENTS



## Ordering Informations

Serie	Rated Coil Voltage	Coil Type DC/AC	Contact Form	Coil Power	Contact Rating	Pole Distance	Enclosure function	Contact Material	Insulation Class	ROHS	Packing Code
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<b>P12003</b>	<b>012</b>	<b>DC</b>	<b>1A</b>	<b>A</b>	<b>12</b>	<b>N</b>	<b>S</b>	<b>N</b>	<b>B</b>	<b>R</b>	<b>TU</b>
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<b>012=</b> 12 Volt	<b>DC=</b> DC Voltage	<b>1A=</b> Form 1A	<b>A=</b> 0,36W	<b>12=</b> 1A / 12 Ampere	<b>N=</b> No available	<b>S=</b> Sealed function	<b>N=</b> AgSdO	<b>B=</b> Class B	<b>R=</b> ROHS Conform	<b>TU=</b> Tube Packing
			<b>B=</b> 0,51W	<b>10=</b> 1C / 10 Ampere		<b>D=</b> Dust Cover		<b>F=</b> Class F		
		<b>1C=</b> Form 1C								

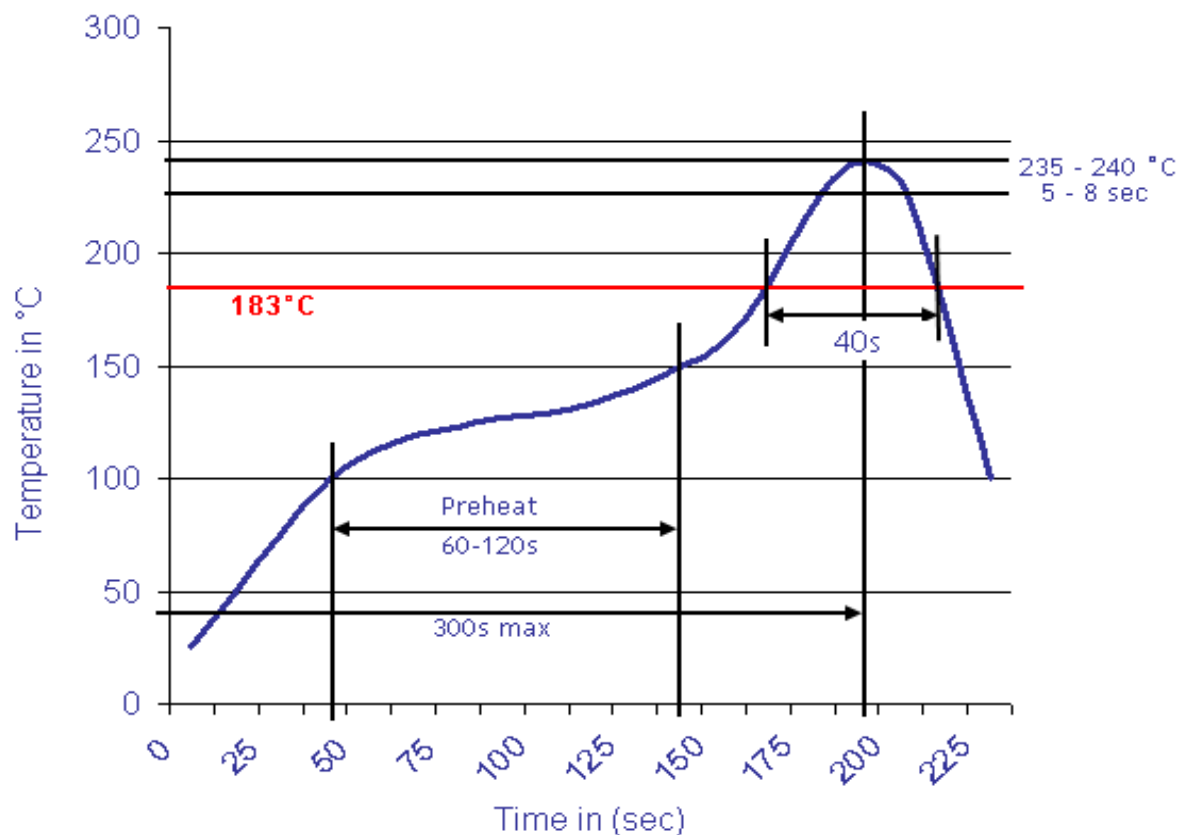
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Soldering Profile Curve

Classification Reflow Profile (JEDEC J-STD-020C)



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