

R605 RELAY

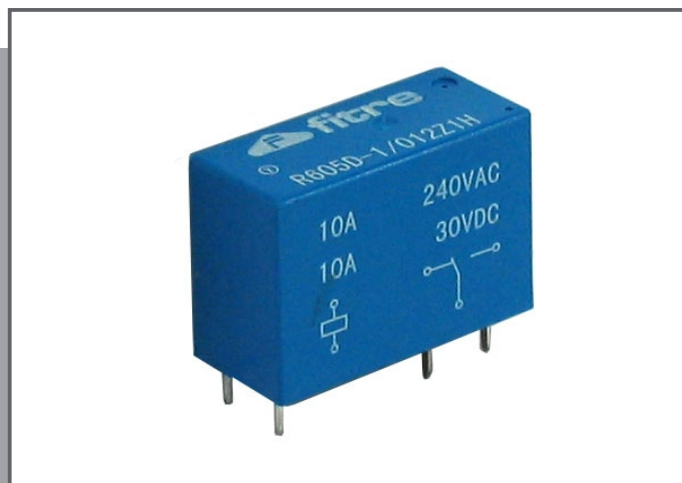
MINIATURE
HIGH PERFORMANCE
HIGH POWER RELAYS

050225

- Small size 5A and 10A switching capacity relay for high density PC board mounting technique
- 8mm creepage distance
- Withstands surge voltage of 10.000V
- High sensitive type for low consumption
- Complete sealed type is available if required
- UL/C-UL certified

TYPICAL APPLICATIONS

- Cooking appliances
- Air controlling equipments
- Audio equipments
- Domestic appliances
- Industrial equipments



SPECIFICATIONS 1 pole & 2 poles relays STANDARD

Contact			
Arrangement		1a, 1c	2a, 2c
Initial contact resistance, max (by voltage drop 6V DC 1A)		50m	
Contact material		Silver alloy	
Max values	Max. switching power	2500VA 300W	1250VA 120W
	Max. switching voltage	250V _{AC} 110V _{DC}	250V _{AC} 110V _{DC}
	Max. switching current	10A	5A
Expected life (min.ope)	Mechanical (at 180 cpm)	1 x 10 ⁷	
	Electrical (at 20 cpm)	1 x 10 ⁵	

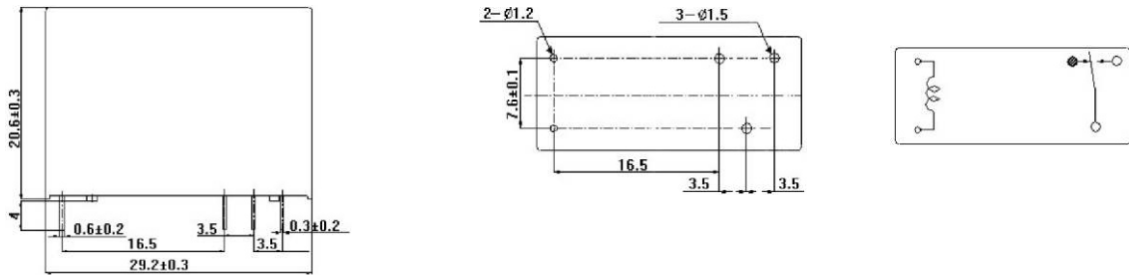
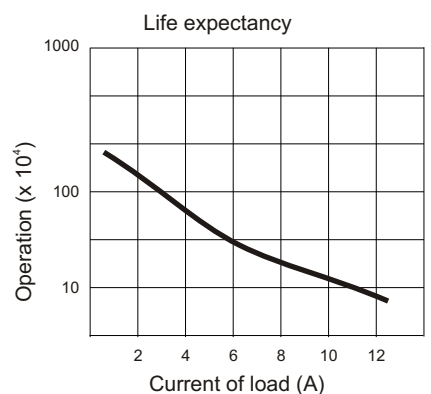
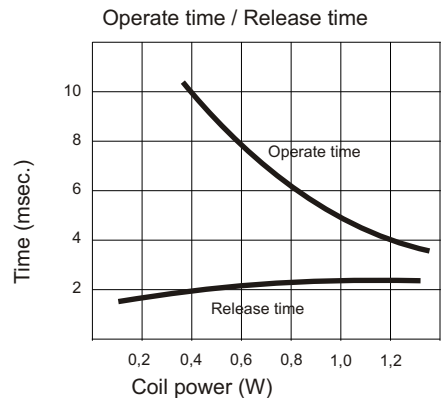
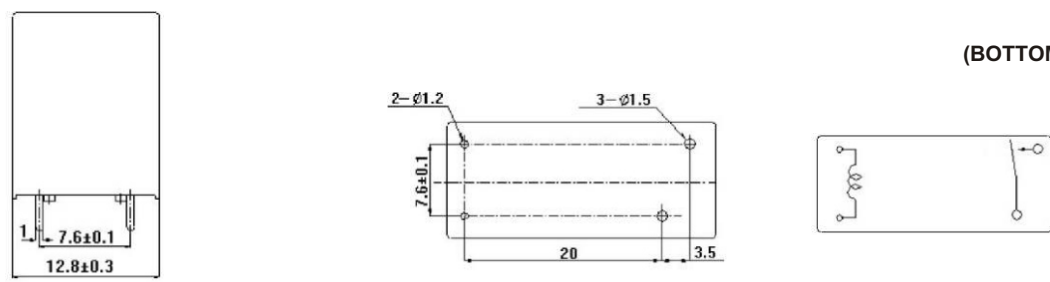
Coil	
Nominal operating power	540-720 mW

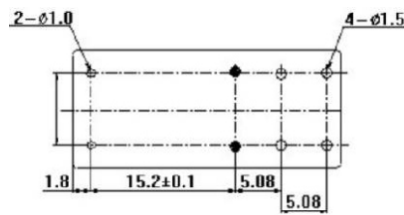
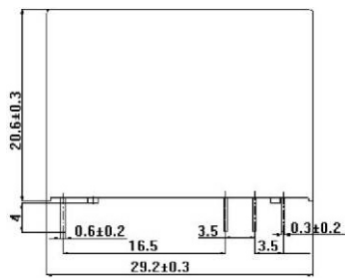
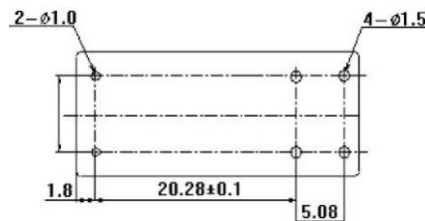
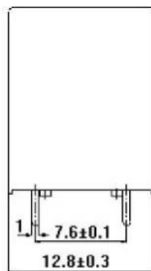
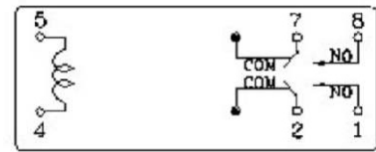
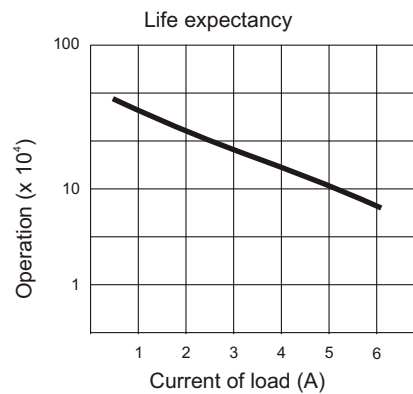
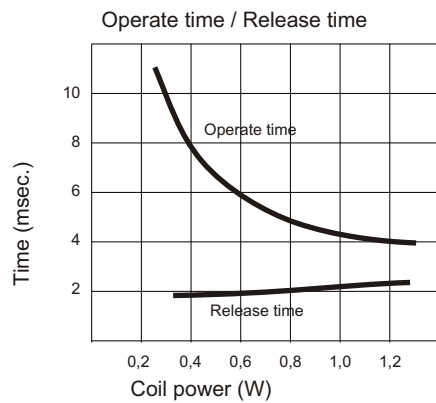
Characteristics		
Type	Standard	High
Operate time (at nominal voltage)	15 msec. max	20 msec. max
Release time (at nominal voltage)	8 msec. typical	
Initial insulation resistance	1.000M min. (at 500VDC)	
Initial breakdown voltage	Between contacts	1000VAC (50/60Hz) for 1 min.
	Between contacts and coil	5000VAC (50/60Hz) for 1 min.
Surge voltage between coil and contacts	10000V	
Temperature rise (max.) (at nominal voltage)	45 deg.	35 deg.
Operating humidity	45% to 85% RH	
Ambient temperature	-30°C to +70°C	
Shock resistance	Functional	10 GMin.
	Destruction	100 GMin.
Vibration resistance	Functional	10Hz to 55Hz at double amplitude of 1.5mm
	Desctruction	10Hz to 55Hz at double amplitude of 1.5mm
Unit weight	Approx. 13g	
UL/C-UL File No.	Certified	

COIL SPECIFICATION (at 20°C)

Type	Nominal Voltage (VDC)	Pick-up Voltage VDC (max.)		Drop-out Voltage VDC (min.)	Coil resistance (Ω) $\pm 10\%$		Nominal operating Power (W)	Max allowable Voltage
		1a, 1c	2a, 2c		1a, 1c	2a, 2c		
Standard	3	2,5	2,4	0,15	26,7	12,5	0,72	130% of nominal Voltage
	5	4		0,25	36			
	6	4,8		0,30	50			
	9	7,2		0,45	115			
	12	9,6		0,60	200			
	18	14,4		0,90	450			
	24	19,2		1,20	820			
	48	38,4		2,40	3.300			
High	3	2,5	2,4	0,15	17		0,54	130% of nominal Voltage
	5	4		0,25	46			
	6	4,8		0,30	67			
	9	7,2		0,45	150			
	12	9,6		0,60	267			
	18	14,4		0,90	600			
	24	19,2		1,20	1.067			
	48	38,4		2,40	4.267			

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ARRANGEMENT 1a, 1c - MECHANICAL DIMENSIONS (Unit = mm) and REFERENCE DATA
(BOTTOM VIEW)

(BOTTOM VIEW)


ARRANGEMENT 2a, 2c - MECHANICAL DIMENSIONS (Unit = mm) and REFERENCE DATA

(BOTTOM VIEW)

(BOTTOM VIEW)

ORDERING DESIGNATION

Type	Coil Type	Poles	Coil Voltage	Contact Form	Version	Contact material	Coil sensitivity
R605	D = DC	1 = 1 pole 2 = 2 pole	003 = 3V 005 = 5V 006 = 6V 009 = 9V 012 = 12V 018 = 18V 024 = 24V 048 = 48V	H = form A Z = form C D = form B	1 = SEALED 2 = FLUX FREE	(Nil) = Silver Alloy	Nil=0.45W H=0.36W

Example

R605	D	1	/	012	Z	1	-	H
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