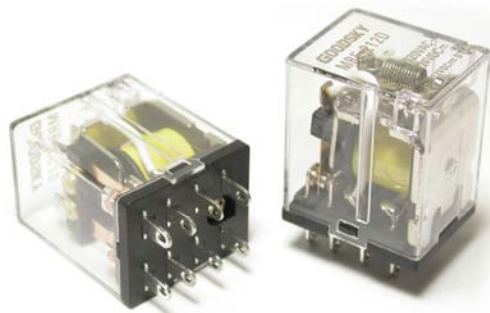




Main Feature

1. Power Relay in miniature size which can withstand up to 5A/120VAC capacity.
2. Two poles are designed with Soldered Lug Terminal for customer's various applications.
3. Complete protective construction is designed for dust prevention.

Contact Rating

Load Type	MRE (DM/DB)	MRE (D)
Rated Load (Resistive)	5A 120VAC	5A 120VAC
	5A 24VDC	5A 24VDC
Rated Carrying Current	5A	5A
Max. Allowable Voltage	AC 120V	AC 120V
	DC 60V	DC 60V
Max. Allowable Current	5A	5A
Max. Allowable Power Force	600VA	600VA
	100W	100W
Contact Material	Ag Alloy	Ag Alloy
Contact Form	DPST	DPDT

Application

Office Equipment, Industrial Control Equipment...etc.

Performance (at Initial Value)

- Contact Resistance 100mΩ Max. @1A,6VDC
- Operate Time..... 20 mSec. Max.
- Release Time 20 mSec. Max.
- Dielectric Strength :
Between Coil & Contact 1,000VAC at 50/60 Hz
for one minute.
Between Contacts 500VAC at 50/60 Hz
for one minute.
- Surge Strength 1,000V (between coil
& contact 1.2x50μSec.)
- Insulation Resistance 100 Mega Ω Min. at
500VDC.
- Max. On/Off Switching :
Electrical..... 6 Cycles per Minute.
Mechanical 300 Cycles per Minute.
- Temperature Range..... -10~40°C

- Humidity Range 45~85% RH.
- Coil Temperature Rise 60°C Max.
- Vibration:
Endurance 10 to 55 Hz dual
amplitude width 1.5mm.
Error Operation..... 10 to 55 Hz dual
amplitude width 1.5mm.
- Shock :
Endurance 1,000 m/S².
Error Operation..... 100 m/S².
- Life Expectancy :
Mechanical 10⁷ Operations at No
Load condition.
Electrical 10⁵ Operations at Rated
Resistive Load.
- Weight About 18 g.

Safety Standard & Its File Number

- NIL.

Coil Specification (at 20°C)

Coil Sensitivity	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance ($\Omega \pm 10\%$)	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Maximum Allowable Voltage (VDC)
MRE	6	150	40	Abt. 0.9	80% Maximum	5% Minimum	110%
	9	100	90				
	12	75	160				
	24	37.5	640				
	48	18.8	2,560				

Ordering Information

MRE - 2 12 D M

Contact Form:

Nil: One Form C

M: One Form A

B: One Form B

Coil Type:

D: Standard DC Coil

Coil Voltage:

06: 6V, 09: 9V, 12: 12V, 24: 24V, 48: 48V

Number of Pole:

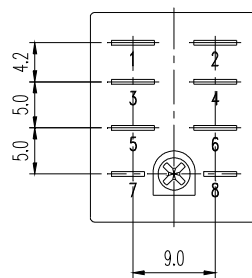
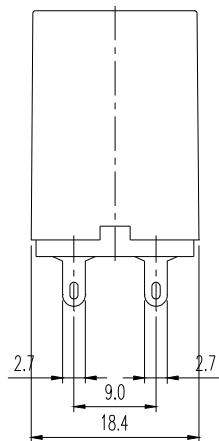
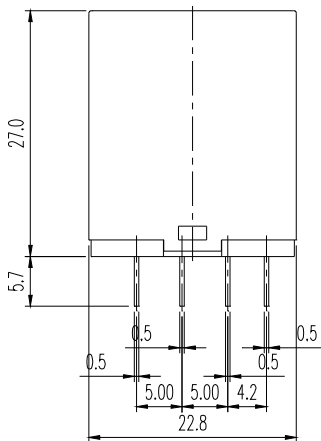
2: Two Poles

Type:

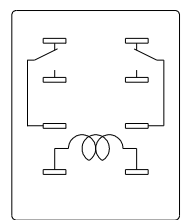
MRE

Classification

Model	MRE		
Contact Form	2C	2A	2B
Hand Soldered Type	MRE-S-2□□D	MRE-S-2□□DM	MRE-S-2□□DB

Dimension ($\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$, the tolerance of PCB thru hole: $+0.1\text{mm}$)

BOTTOM VIEW



BOTTOM VIEW



Main Feature

1. 2-pole and 4-pole version are available with switching current at 5 Amps (2 Poles & 4 Poles).
2. Printed Circuit Board Terminal, Solder Lug Terminal and Flanged Case are designed for direct panel mounting use.
3. Low coil power consumption with high response time.
4. High reliability and long life with better vibration and shock resistance.
5. Touch Button and LED version are available for customer's selection.

Contact Rating

Load Type	RE-2P (DM/DB)	RE-2P (D)	RE-4P (DM/DB)	RE-4P (D)
Rated Load (Resistive)	5A 250VAC	5A 250VAC	5A 250VAC	5A 250VAC
	5A 30VDC	5A 30VDC	5A 30VDC	5A 30VDC
Rated Carrying Current	5A	5A	5A	5A
Max. Allowable Voltage	AC 250V	AC 250V	AC 250V	AC 250V
	DC 110V	DC 110V	DC 110V	DC 110V
Max. Allowable Current	5A	5A	5A	5A
Max. Allowable Power Force	1,250VA	1,250VA	1,250VA	1,250VA
	150W	150W	150W	150W
Contact Material	Ag Alloy	Ag Alloy	Ag Alloy	Ag Alloy
Contact Form	DPST	DPDT	4PST	4PDT

Application

Vending Machine, Cooking Appliances, Office Machine, Domestic Appliances, Control Equipment... etc.

Performance (at Initial Value)

- Contact Resistance 100 mΩ Max@1A,6VDC
- Operate Time..... 25 mSec. Max.
- Release Time 25 mSec. Max.
- Dielectric Strength :
 - Between Coil & Contact 1,500VAC at 50/60 Hz for one minute.
 - Between Contacts 1,000VAC at 50/60 Hz for one minute.
- Surge Strength 3,000V (between Coil & Contact 1.2x50μSec.)
- Insulation Resistance 100 MegaΩ Min. at 500VDC.
- Max. On/Off Switching :
 - Electrical..... 6 Cycles per Minute.
 - Mechanical 300 Cycles per Minute.
- Temperature Range..... -25~55°C
- Humidity Range..... 45~85% RH.
- Coil Temperature Rise..... 60°C Max.
- Vibration :
 - Endurance 10 to 55 Hz dual amplitude width 1.5mm.
 - Error Operation..... 10 to 55 Hz dual amplitude width 1.5mm.

- Shock :
 - Endurance 1,000 m/S² Min.
 - Error Operation..... 100 m/S² Min.
- Life Expectancy :
 - Mechanical 10⁷ Operations at No Load condition.
 - Electrical 10⁵ Operations at Rated Resistive Load.
- Weight About 2 P : 32 g.
4 P : 35 g.

Accessories & Sockets

RE-2P

- PYF-08A/AE See Page 172
- PY-08/-0..... See Page 178
- PYF-08BE & BE/3 See Page 172

RE-4P

- PYF-14A/AE See Page 173
- PY-14/-0..... See Page 178
- PYF-14BE & BE/3 See Page 173

Safety Standard & Its File Number

- UL & C-UL. E141060
- VDE. 40012699
- CQC.....07001018730

Coil Specification (at 20°C)

Coil Sensitivity	Coil Voltage Code	Nominal Voltage (VAC/VDC)	Nominal Current (mA)		Coil Resistance (Ω±10%)	Power Consumption		Pull-In Voltage	Drop-Out Voltage	Max. Allowable Voltage
			50 Hz	60 Hz		50HZ	60HZ			
RE 2P & 4P AC Coil	01	6	282.67	214.33	10	1.7VA	1.29VA	80% Maximum	30% Minimum	110%
	02	12	106.2	94.85	40	1.27VA	1.14VA			
	03	24	52.8	45.45	160	1.27VA	1.09VA			
	04	48	23.65	19.95	600	1.1VA	0.96VA			
	05	110	12.45	10.25	3,400	1.37VA	1.13VA			
	06	120	16.75	14.33	3,400	2.01VA	1.72VA			
	07	220	6.18	5.08	13,600	1.36VA	1.12VA			
	08	240	7.24	5.85	13,600	1.74VA	1.41VA			
	09	230	7.0	5.7	13,600	1.61VA	1.31VA			
RE 2P & 4P DC Coil	01	6	150		40	Abt. 0.9 W		80% Maximum	10% Minimum	110%
	02	12	75.0		160					
	03	24	36.9		650					
	04	48	18.5		2,600					
	05	110	10.0		11,000					
	06	120	10.9		11,000					
	10	60	15.0		4,000	Abt. 1.1 W				
	07	220	5.0		44,000					

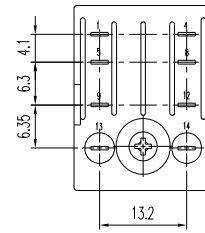
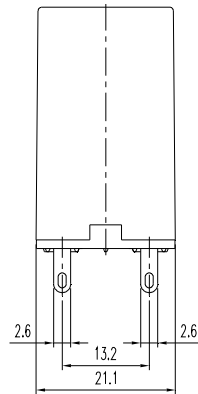
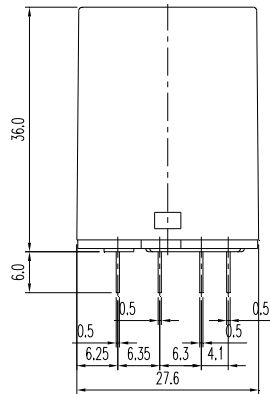
Classification

Model	RE	
Coil Type	AC Coil	
Number Of Poles	2 Poles	4 Poles
Contact Form	RE-2□□A/AM/AB	RE-4□□A/AM/AB
Terminal Type	RE-2□□A/AM/AB RE-2□□AP/AMP/ABP	RE-4□□A/AM/AB RE-4□□AP/AMP/ABP
Case Type	RE-2□□A/AM/AB RE-2□□AF/AMF/ABF	RE-4□□A/AM/AB RE-4□□AF/AMF/ABF
LED	RE-2□□AL/AML/ABL RE-2□□APL/AMPL/ABPL RE-2□□AFL/AMFL/ABFL	RE-4□□AL/AML/ABL RE-4□□APL/AMPL/ABPL RE-4□□AFL/AMFL/ABFL
Touch Button	RE-2□□AT/AMT/ABT RE-2□□APLT/AMPLT/ABPLT RE-2□□AFLT/AMFLT/ABFLT	RE-4□□AT/AMT/ABT RE-4□□APLT/AMPLT/ABPLT RE-4□□AFLT/AMFLT/ABFLT
Europe Type	RE-2□□ALTU/AMLTU/ABLTU RE-2□□APLTU/AMPLTU/ABPLTU	RE-4□□ALTU/AMLTU/ABLTU RE-4□□APLTU/AMPLTU/ABPLTU
Remark	"LTU" were restricted to be together within European Type ordering	

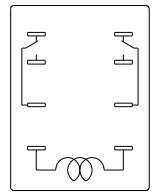
Model	RE	
Coil Type	DC Coil	
Number Of Poles	2 Poles	4 Poles
Contact Form	RE-2□□D/DM/DB	RE-4□□D/DM/DB
Terminal Type	RE-2□□D/DM/DB RE-2□□DP/DMP/DBP	RE-4□□D/DM/DB RE-4□□DP/DMP/DBP
Case Type	RE-2□□D/DM/DB RE-2□□DF/DMF/DBF	RE-4□□D/DM/DB RE-4□□DF/DMF/DBF
LED	RE-2□□DL(Z/Y/X/V)/DML(Z/Y/X/V)/DBL(Z/Y/X/V) RE-2□□DPL(Z/Y/X/V)/DMPL(Z/Y/X/V)/DBPL(Z/Y/X/V) RE-2□□DFL(Z/Y/X/V)/DMFL(Z/Y/X/V)/DBFL(Z/Y/X/V)	RE-4□□DL(Z/Y/X/V)/DML(Z/Y/X/V)/DBL(Z/Y/X/V) RE-4□□DPL(Z/Y/X/V)/DMPL(Z/Y/X/V)/DBPL(Z/Y/X/V) RE-4□□DFL(Z/Y/X/V)/DMFL(Z/Y/X/V)/DBFL(Z/Y/X/V)
Touch Button	RE-2□□DT/DMT/DBT RE-2□□DPL(Z/Y/X/V)T/DMPL(Z/Y/X/V)T/DBPL(Z/Y/X/V)T RE-2□□DFL(Z/Y/X/V)T/DMFL(Z/Y/X/V)T/DBFL(Z/Y/X/V)T	RE-4□□DT/DMT/DBT RE-4□□DPL(Z/Y/X/V)T/DMPL(Z/Y/X/V)T/DBPL(Z/Y/X/V)T RE-4□□DFL(Z/Y/X/V)T/DMFL(Z/Y/X/V)T/DBFL(Z/Y/X/V)T
Europe Type	RE-2□□DL(Z/Y/X/V)TU/DML(Z/Y/X/V)TU/DBL(Z/Y/X/V)TU RE-2□□DPL(Z/Y/X/V)TU/DMPL(Z/Y/X/V)TU/DBPL(Z/Y/X/V)TU	RE-4□□DL(Z/Y/X/V)TU/DML(Z/Y/X/V)TU/DBL(Z/Y/X/V)TU RE-4□□DPL(Z/Y/X/V)TU/DMPL(Z/Y/X/V)TU/DBPL(Z/Y/X/V)TU
Remark	"LTU" were restricted to be together within European Type ordering	

Dimension ($\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$, the tolerance of PCB thru hole: $+0.1\text{mm}$)

RE-2

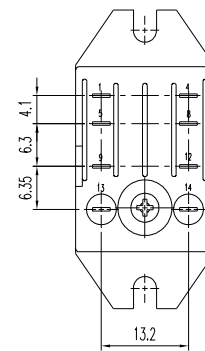
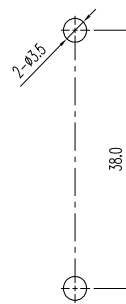
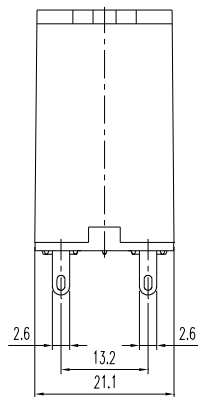
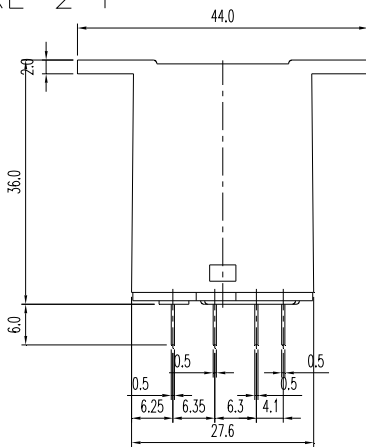


BOTTOM VIEW

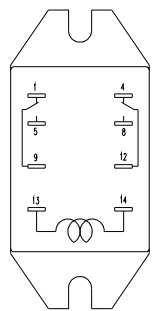


BOTTOM VIEW

RE-2-F

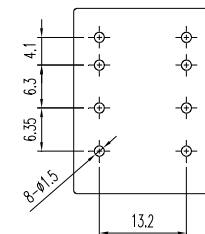
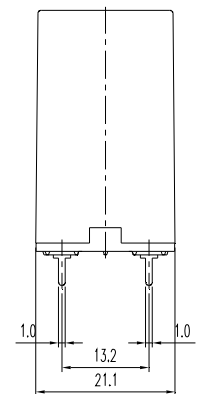
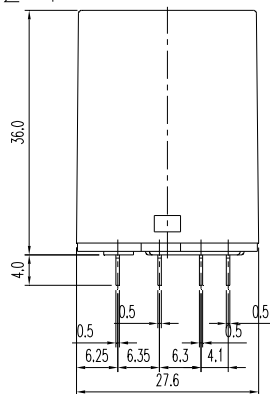


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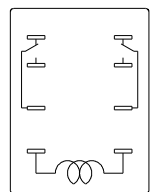


BOTTOM VIEW

RE-2-P

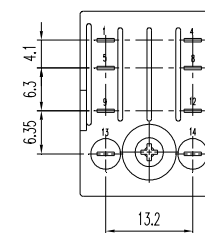
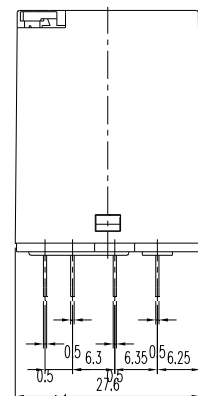
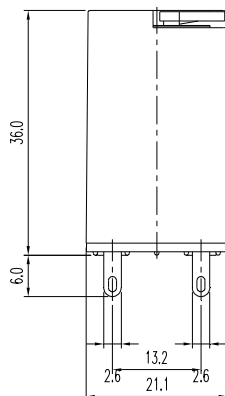


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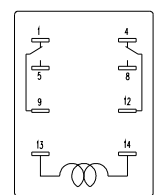


BOTTOM VIEW

RE-2xxU



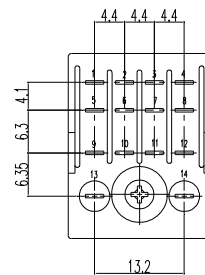
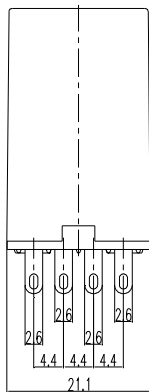
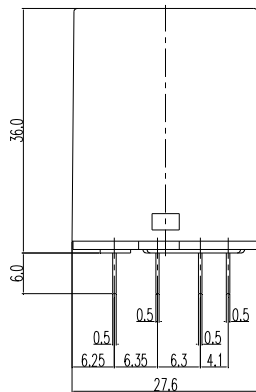
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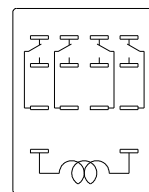
BOTTOM VIEW

RE

RE-4

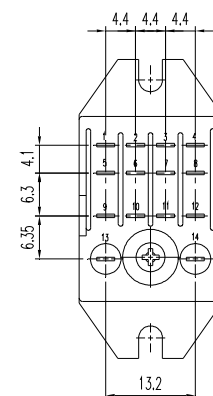
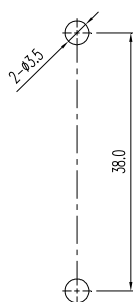
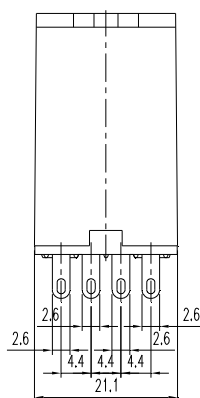
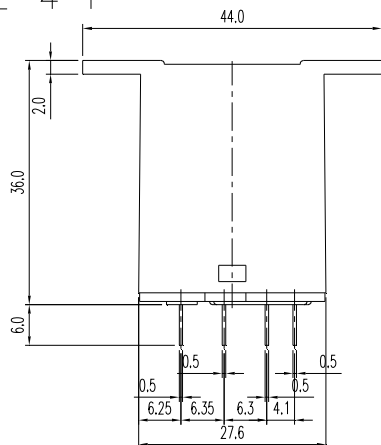


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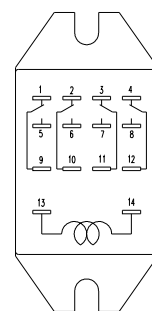


BOTTOM VIEW

RE-4-F

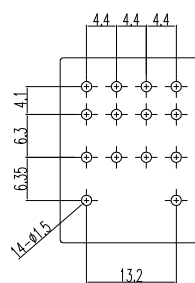
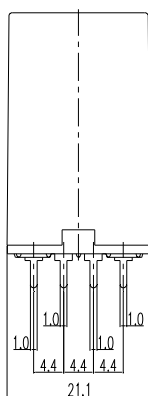
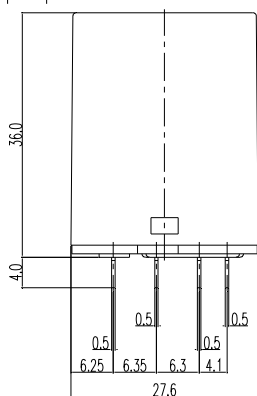


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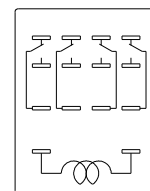


BOTTOM VIEW

RE-4-P

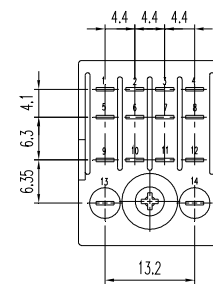
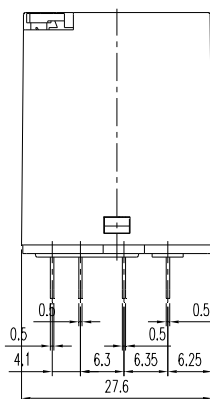
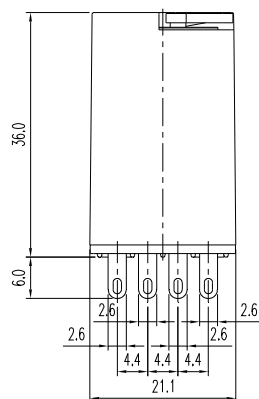


P.C.B. Layout

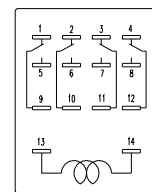


BOTTOM VIEW

RE-4xxU



BOTTOM VIEW



BOTTOM VIEW

Wiring diagrams (Bottom view)

RE-2P		
RE-2□D□□□L□□□	RE-2□D□□□X□□□	RE-2□D□□□V□□□
RE-2□D□□□Z□□□	RE-2□D□□□Y□□□	AC Coil Model With LED
RE-4P		
RE-4□D□□□L□□□	RE-4□D□□□X□□□	RE-4□D□□□V□□□
RE-4□D□□□Z□□□	RE-4□D□□□Y□□□	AC Coil Model With LED



Main Feature

- 1 Pole to 4 Poles versions are available with switching current at 15 Amps (1 Pole) and 10 Amps (2-4 Poles).
- Printed Circuit Board Terminal, Solder Lug Terminal and Flanged Case are designed for direct panel mounting use.
- Low coil power consumption with high response time.
- High reliability and long life with better vibration and shock resistance.
- 1/3 Horse power on RET 2 Poles series are certified by UL.
- Touch Button and LED version are available for customer's selection.

Contact Rating

Load Type	RET-1P	RET-2P	RET-3P	RET-4P
Rated Load (Resistive)	15A 250VAC	10A 250VAC	10A 250VAC	10A 250VAC
	15A 30VDC	10A 30VDC	10A 30VDC	10A 30VDC
Rated Carrying Current	15A	10A	10A	10A
Max. Allowable Voltage	AC 250V	AC 250V	AC 250V	AC 250V
	DC 110V	DC 110V	DC 110V	DC 110V
Max. Allowable Current	15A	10A	10A	10A
Max. Allowable Power Force	1,700VA	1,100VA	1,100VA	1,100VA
	360W	240W	240W	240W
Contact Material	Ag Alloy	Ag Alloy	Ag Alloy	Ag Alloy
Contact Form	SPDT, SPST	DPDT, DPST	3PDT, 3PST	4PDT, 4PST

Application

Vending Machine, Cooking Appliances, Office Machine, Domestic Appliances, Control Equipment, etc.

Performance (at Initial Value)

- Contact Resistance 100 mΩ Max.@1A,6VDC
- Operate Time..... 25 mSec. Max.
- Release Time 25 mSec. Max.
- Dielectric Strength :
 - Between Coil & Contact 1,500VAC at 50/60 Hz for one minute.
 - Between Contacts 1,000VAC at 50/60 Hz for one minute.
- Surge Strength 3,000V (between Coil & Contact 1.2x50μSec.)
- Insulation Resistance 100 MegaΩ Min. at 500VDC.
- Max. On/Off Switching :
 - Electrical..... 6 Cycles per Minute.
 - Mechanical 300 Cycles per Minute.
- Temperature Range..... -25~55°C
- Humidity Range..... 45~85% RH.

- Coil Temperature Rise 60°C Max.
- Vibration:
 - Endurance 10 to 55 Hz dual amplitude width 1.5mm.
 - Error Operation..... 10 to 55 Hz dual amplitude width 1.5mm.
- Shock:
 - Endurance 1,000 m/S².
 - Error Operation..... 100 m/S².
- Life Expectancy :
 - Mechanical 10⁷ Operations at No Load condition.
 - Electrical 10⁵ Operations at Rated Resistive Load.
- Weight 1-2P :About 35 g.
3P :About 53.2g.
4P :About 66.5g.

Safety Standard & Its File Number

- C-UL (1-pole & 2-pole). E141060
- CQC.....07001018730(For RET-1P/2P)

Coil Specification (at 20°C)

Coil Sensitivity	Coil Voltage Code	Nominal Voltage (VAC/VDC)	Nominal Current (mA)		Coil Resistance (Ω±10%)	Power Consumption		Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Max.Allowable Voltage (VDC)
			50 Hz	60 Hz		50Hz	60Hz			
RET 1-P & 2-P AC Coil	01	6	282.7	214.3	10	1.7VA	1.29VA	80% Maximum	30% Minimum	110%
	02	12	106.2	94.9	40	1.27VA	1.14VA			
	03	24	52.8	45.5	160	1.27VA	1.09VA			
	04	48	23.7	20.0	600	1.1VA	0.96VA			
	05	110	12.5	10.3	3,400	1.37VA	1.13VA			
	06	120	16.8	14.3	3,400	2.01VA	1.72VA			
	07	220	6.2	5.1	13,600	1.36VA	1.12VA			
	08	240	7.2	5.9	13,600	1.74VA	1.41VA			
	09	230	7.0	5.7	13,600	1.61VA	1.31VA			
RET 3-P AC Coil	01	6	310	270	6.7	Abt. 1.6 to 2.0VA (60 Hz)	80% Maximum	30% Minimum	110%	
	02	12	159	134	24					
	03	24	80	67	100					
	04	48	38	33	410					
	05	110	16	13.7	2,300					
	06	120	15.4	13.2	2,300					
	07/08	220/240	10	8.5	8,650					
RET 4-P AC Coil	01	6	386	330	5	Abt. 1.95 to 2.5 VA (60 Hz)	80% Maximum	30% Minimum	110%	
	02	12	199	170	20					
	03	24	93.6	80	78					
	04	48	46.8	40	350					
	05	110	25.5	21.8	1,600					
	06	120	24.5	21	1,600					
	07/08	220/240	13.1	11.2	6,700					
RET 1-P & 2-P DC Coil	01	6	150		40	Abt. 0.9 W	80% Maximum	10% Minimum	110%	
	02	12	75		160					
	03	24	36.9		650					
	04	48	18.5		2,600					
	05	110	10		11,000					
	06	120	10		11,000					
	10	60	15		4,000					
RET 3-P DC Coil	01	6	234		25.7	Abt. 1.4 W	80% Maximum	10% Minimum	110%	
	02	12	112		107					
	03	24	58.6		410					
	04	48	28.2		1,700					
	05	110	13		8,500					
	06	120	14.1		8,500					
RET 4-P DC Coil	01	6	240		25	Abt. 1.5 W	80% Maximum	10% Minimum	110%	
	02	12	120		100					
	03	24	69		350					
	04	48	30		1,600					
	05	110	15.9		6,900					
	06	120	17.4		6,900					

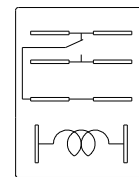
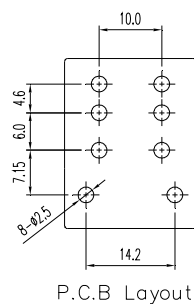
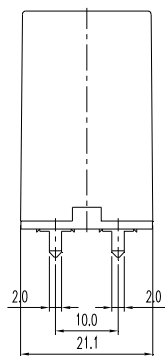
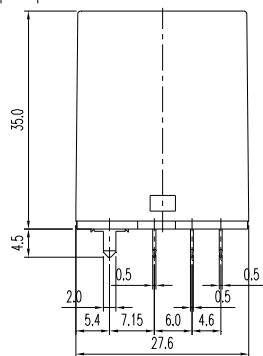
Ordering Information

Classification

Model	RET							
Coil Type	AC Coil				DC Coil			
Number Of Poles	1C / 1A / 1B	2C / 2A / 2B	3C / 3A / 3B	4C / 4A / 4B	1C / 1A / 1B	2C / 2A / 2B	3C / 3A / 3B	4C / 4A / 4B
Contact Form	RET-1/2□□A/AM/AB		RET-3/4□□A/AM/AB		RET-1/2□□A/AM/AB		RET-3/4□□A/AM/AB	
Terminal Type	RET-1/2□□A/AM/AB RET-1/2□□AP/AMP/ABP		RET-3/4□□A/AM/AB RET-3/4□□AP/AMP/ABP		RET-1/2□□A/AM/AB RET-1/2□□AP/AMP/ABP		RET-3/4□□A/AM/AB RET-3/4□□AP/AMP/ABP	
Case Type	RET-1/2□□A/AM/AB RET-1/2□□AF/AMF/ABF		NIL		RET-1/2□□D/DM/DB RET-1/2□□DF/DMF/DBF		NIL	
LED	RET-1/2□□AL/AML/ABL RET-1/2□□APL/AMPL/ABPL RET-1/2□□AFL/AMFL/ABFL		NIL		RET-1/2□□DL/DML/DBL RET-1/2□□DPL/DMPL/BPL RET-1/2□□DFL/DMFL/DBFL		NIL	
Touch Button	RET-1/2□□AT/AMT/ABT RET-1/2/□□ APLT/AMPLT/ABPLT RET-1/2/□□ALT/AMLT/ABLT RET-1/2□□ AFLT/AMFLT/ABFLT		NIL		RET-1/2□□DT/DMT/DBT RET-1/2/□□ DPLT/DMPLT/DBPLT RET-1/2/□□DLT/DMLT/DBLT RET-1/2□□ DFLT/DMFLT/DBFLT		NIL	

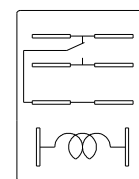
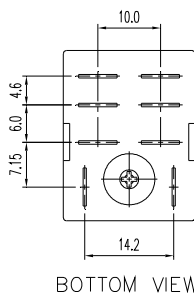
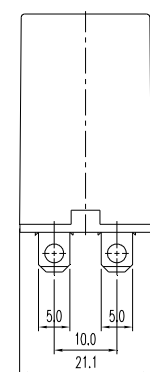
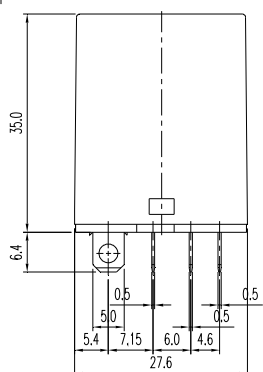
Dimension ($\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$, the tolerance of PCB thru hole: $+0.1\text{mm}$)

RET-1-P



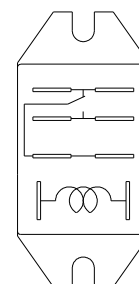
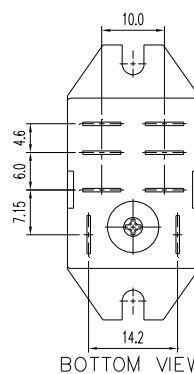
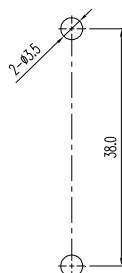
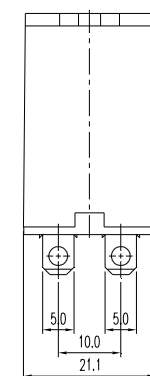
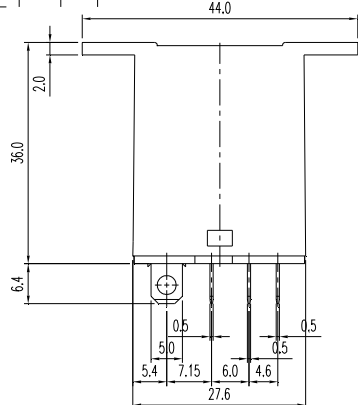
BOTTOM VIEW

RET-1



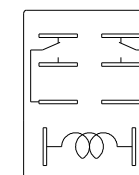
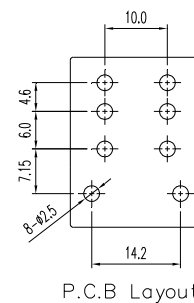
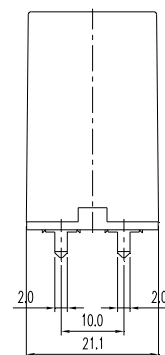
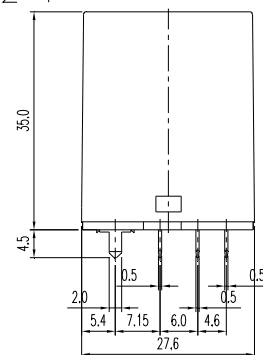
BOTTOM VIEW

RET-1-F



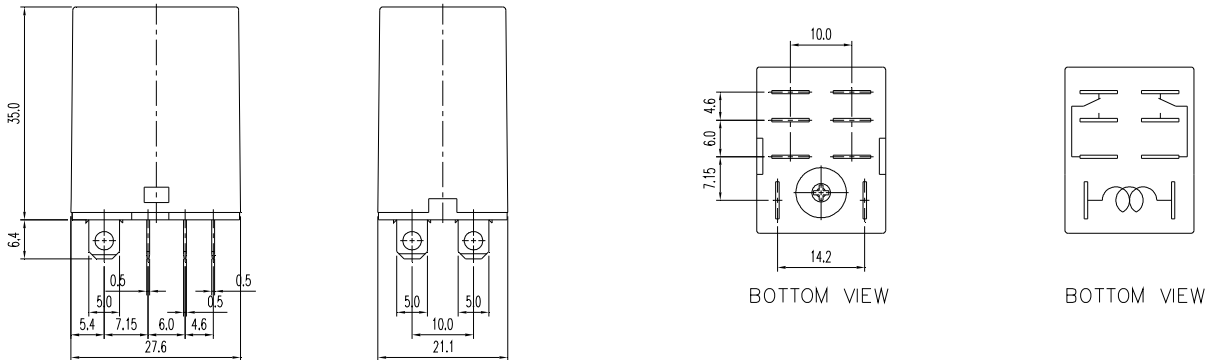
BOTTOM VIEW

RET-2-P

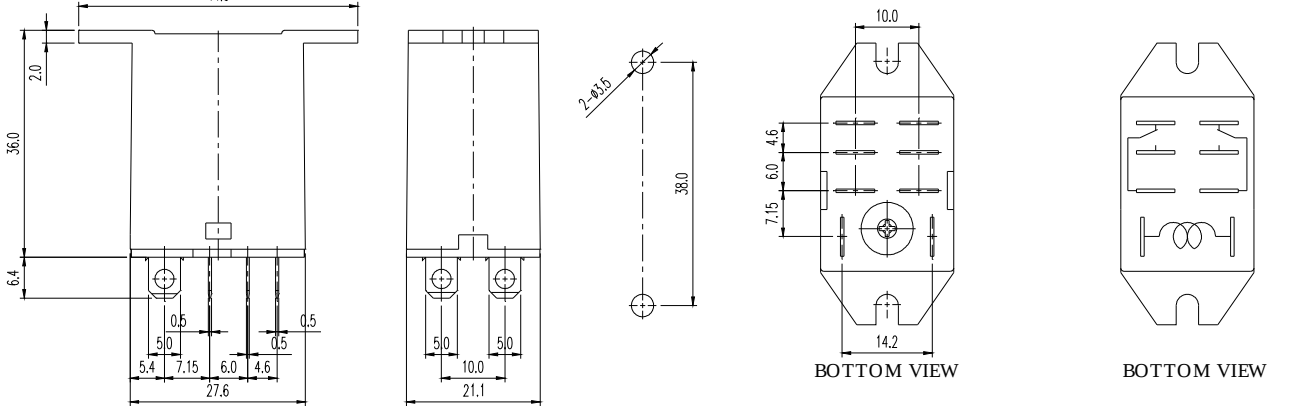


BOTTOM VIEW

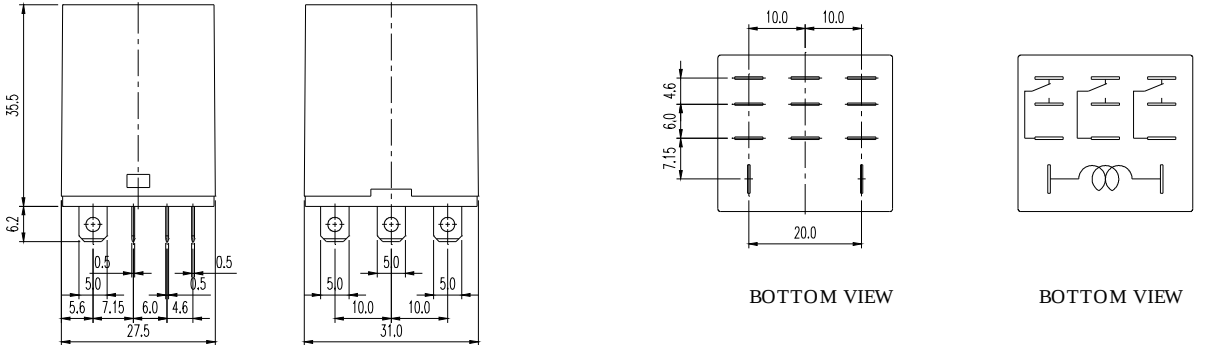
RET-2



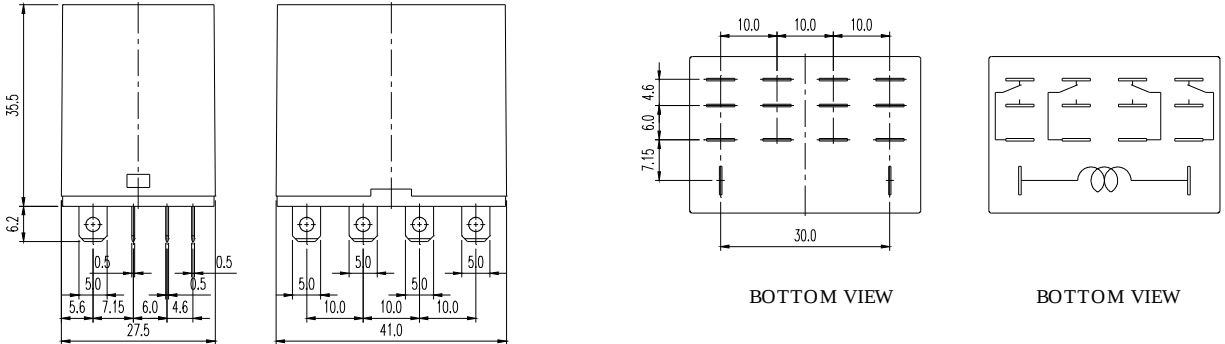
RET-2-F



RET-3



RET-4



Accessories & Sockets

RET-1P/2P

- PTF-08ASee Page 174
- PTF-08AESee Page 174
- PT-08See Page 179
- PT-08-0See Page 179

RET-4P

- PTF-14A.....See Page 174
- PTF-14AE..... See Page 174

Wiring diagrams (Bottom view)

RET-1P					
RET-1□□□□□□□□	RET-1□□□□□□□□	RET-1□□□□□□□□	RET-1□□□□□□□□	RET-1□□□□□□□□	AC Coil Model With LED
RET-2P					
RET-2□□□□□□□□	RET-2□□□□□□□□	RET-2□□□□□□□□	RET-2□□□□□□□□	RET-2□□□□□□□□	AC Coil Model With LED
RET-3P					
RET-3□□□□□□□□	RET-3□□□□□□□□	RET-3□□□□□□□□	RET-3□□□□□□□□	RET-3□□□□□□□□	AC Coil Model With LED
RET-4P					
RET-4□□□□□□□□	RET-4□□□□□□□□	RET-4□□□□□□□□	RET-4□□□□□□□□	RET-4□□□□□□□□	AC Coil Model With LED



Main Feature

1. 2-Poles and 3-Poles version are available with switching current at 10 Amps (2 Poles) and 10Amps (3 Poles).
2. Socket type. Easy to use.
3. Low coil power consumption with high response time.
4. High reliability and long life with better vibration and shock resistance.

Contact Rating

Load Type	RK-2P	RK-3P
Rated Load (Resistive)	10A 240VAC	10A 240VAC
Rated Carrying Current	10A	10A
Max. Allowable Voltage	AC 240V	AC 240V
	DC 110V	DC 110V
Max. Allowable Current	10A	10A
Max. Allowable Power Force	2400VA	2400VA
	280W	280W
Contact Material	Ag Alloy	Ag Alloy
Contact Form	DPDT	3PDT

Application

Vending Machine, Cooking Appliances, Office Machine, Domestic Appliances, Control Equipment...etc.

Performance (at Initial Value)

- Contact Resistance 100mΩMax.@1A,6VDC
- Operate Time..... 25 mSec. Max.
- Release Time 25 mSec. Max.
- Dielectric Strength :
 - Between Coil & Contact 1,000VAC at 50/60 Hz for one minute.
 - Between Contacts 1,000VAC at 50/60 Hz for one minute.
- Surge Strength 3,000V (between Coil & Contact 1.2x50μSec.)
- Insulation Resistance 100 MegaΩ Min. at 500VDC.
- Max. On/Off Switching :
 - Electrical..... 6 Cycles per Minute.
 - Mechanical 300 Cycles per Minute.
- Temperature Range..... -10~40°C
- Humidity Range..... 35~85% RH.

- Vibration :
 - Endurance 10 to 55 Hz dual amplitude width 1.5mm.
 - Error Operation..... 10 to 55 Hz dual amplitude width 1.5mm.
- Shock :
 - Endurance 1,000 m/S².
 - Error Operation..... 100 m/S².
- Life Expectancy :
 - Mechanical 10⁷ Operations at No Load condition.
 - Electrical 10⁵ Operations at Rated Resistive Load.
- Weight About 2P : 72.6 g.
3P : 81.2 g.

Accessories & Sockets

RK-2P

- PF-083A/AE See Page 175
- PF-083BE..... See Page 175

RK-3P

- PF-113A/AE..... See Page 176
- PF-113BE See Page 176

Safety Standard & Its File Number

- C-UL E175730

Coil Specification (at 20°C)

Coil Sensitivity	Coil Voltage Code	Nominal Voltage (VAC/VDC)	Nominal Current (mA)		Coil Resistance ($\Omega \pm 10\%$)	Power Consumption		Pull-In Voltage	Drop-Out Voltage	Max. Allowable Voltage
			50 Hz	60 Hz		50HZ	60HZ			
AC Coil	01	6	404.00	360.00	5.3	2.40VA	2.16VA	80% Maximum	30% Minimum	110%
	02	12	169.63	139.53	21.5	2.04VA	1.67VA			
	03	24	69.74	59.84	91	1.67VA	1.44VA			
	06	120	20.10	16.40	1,620	2.41VA	1.97VA			
	08	240	7.82	6.68	7,100	1.87VA	1.6VA			
DC Coil	02	12	126		95	Abt. 1.5W		80% Maximum	10% Minimum	110%
	03	24	56		430					
	04	48	29.5		1,630					
	05	110	16.2		6,800					
	06	120	17.6		6,800					

Ordering Information

RK - 2 01 D M L T

Touch Button:

Nil: Without Test Button

T: With Test Button

LED:

Nil: Without LED

L: With LED Selection (Use Polarity LED)

Z: Coil Parallel with Diode & the Positive Pole "+" On #2 Terminal

X: Coil Parallel with Diode + LED & the Positive Pole "+" On #2 Terminal

Contact Form:

Nil: Form C

M: Form A

B: Form B

Coil Type:

D: DC Coil

A: AC Coil

Coil Code:

01: 6V, 02: 12V, 03: 24V, 04: 48V

05: 110V, 06: 120V, 08: 240V

Number of Pole:

2: 2 Poles

3: 3 Poles

Type:

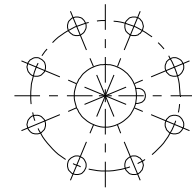
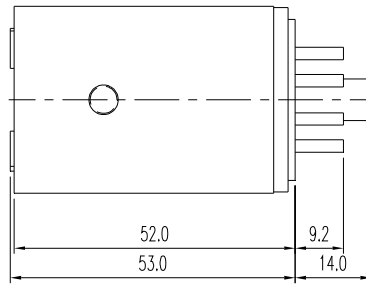
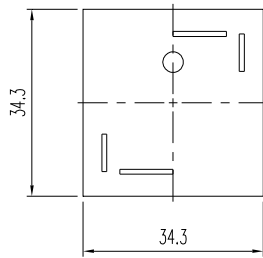
RK

Classification

Model	RK					
Coil Type	AC Coil			DC Coil		
Number Of Poles	2 Poles		3 Poles	2 Poles		3 Poles
Contact Form	2C / 3C	2A / 3A	2B / 3B	2C / 3C	2A / 3A	2B / 3B
Terminal Type	RK-2/3□A□□	RK-2/3□AM□□	RK-2/3□AB□□	RK-2/3□D□□	RK-2/3□DM□□	RK-2/3□DB□□
LED	RK-2/3□□A/AL□	RK-2/3□□AM/AML□	RK-2/3□□AB/ABL□	RK-2/3□□D(DL/Z/X)□	RK-2/3□□DM(DML/Z/X)□	RK-2/3□□DB(DBL/Z/X) □
Touch Button	RK-2/3□□□□T	RK-2/3□□□□T	RK-2/3□□□□T	RK-2/3□□□□T	RK-2/3□□□□T	RK-2/3□□□□T

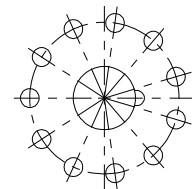
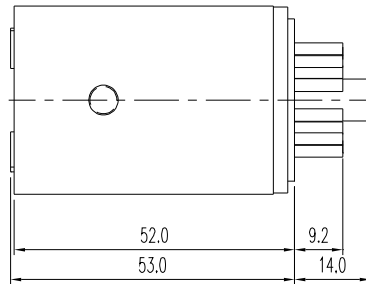
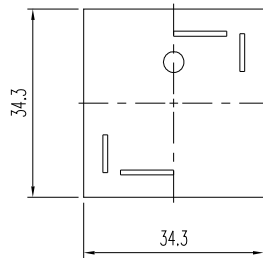
Dimension ($\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$, the tolerance of PCB thru hole: $+0.1\text{mm}$)

RK-2P



Bottom view

RK-3P



Bottom view

Wiring diagrams (Bottom view)

RK-2P

RK-2□□D(A)□□	RK-2□□D□L□	RK-2□□D□Z□
RK-2□□D□X□	AC Coil Model With LED	

RK-3P

RK-3□□D(A)□□	RK-3□□D□L□	RK-3□□D□Z□
RK-3□□D□X□	AC Coil Model With LED	



Main Feature

1. From 1 to 3 Poles version are available with high switching current up to 30A.
2. Solder Lug Terminal with Flanged Case are available for customer's various application.

Contact Rating

Load Type	RPT (No Common)	RPT-2P	RPT- 3P	RP-2P	RP-3P
Rated Load (Resistive)	30A/28VDC	20A/15VDC	20A/15VDC	10A 240VAC	10A 240VAC
	30A/120VAC	13A/28VDC	13A/28VDC	13A 120VAC	13A 120VAC
	30A/240VAC	25A/120VAC	25A/120VAC	13A 28VDC	13A 28VDC
	10A/600VAC	25A/240VAC	25A/240VAC	-	-
	-	5A/600VAC	5A/600VAC	-	-
Contact Capacity	1Hp/120VAC	3/4Hp/120VAC	1/2/Hp/120VAC	1/2HP 240VAC	1/2HP 240VAC
	1 1/2Hp/240VAC	1Hp/240VAC	1/2Hp/208/240VAC	1/3HP 120VAC	1/3HP 120VAC
Rated Carrying Current	30A	25A	25A	10A	10A
Max. Allowable Voltage	AC 600V	AC 300V	AC 300V	AC 300V	AC 300V
	DC 48V	DC 48V	DC 48V	DC 48V	DC 48V
Max. Allowable Current	30A	25A	25A	13A	13A
Max. Allowable Power Force	7,200VA	6,000VA	6,000VA	2,400VA	2,400VA
	840W	360W	360W	360W	360W
Contact Material	Ag Alloy	Ag Alloy	Ag Alloy	Ag Alloy	Ag Alloy
Contact Form	SPST, SPDT	DPST, DPDT	3PST, 3PDT	DPST,DPDT	3PST,3PDT

Application

Vending Machine, Cooking Appliances, Office Machine, Domestic Appliances, Control Equipment, etc

Performance (at Initial Value)

- Contact Resistance 100 mΩ Max. @1A,6VDC
- Operate Time..... 15 mSec. Max.
- Release Time 10 mSec. Max.
- Dielectric Strength :
Between Coil & Contact 1,500VAC at 50/60 Hz for one minute.
Between Contacts 1,000VAC at 50/60 Hz for one minute.
- Surge Strength 1,500V (between Coil & Contact 1.2x50μSec.)
- Insulation Resistance 100 MegaΩ Min. at 500VDC.
- Max. On/Off Switching :
Electrical..... 6 Cycles per Minute.
Mechanical 300 Cycles per Minute.
- Temperature Range..... -45~70°C

- Humidity Range 45~85% RH.
- Coil Temperature Rise 50°C Max.
- Vibration :
Endurance 10 to 55 Hz dual amplitude width 1.5mm.
Error Operation..... 10 to 55 Hz dual amplitude width 1.5mm.
- Shock :
Endurance 1,000 m/S².
Error Operation..... 100 m/S².
- Life Expectancy :
Mechanical 10⁷ Operations at No Load condition.
Electrical..... 10⁵ Operations at Rated Resistive Load.
- Weight About 85 g.

Safety Standard & Its File Number

- RPT
- C-UL E175730
- RP
- NIL

Coil Specification (at 20°C)

Coil Sensitivity	Coil Voltage Code	Nominal Voltage (VAC/VDC)	Nominal Current (mA)		Coil Resistance ($\Omega \pm 10\%$)	Power Consumption	Pull-In Voltage	Drop-Out Voltage	Maximum Allowable Voltage
			50 Hz	60 Hz					
RP/T (VAC) 1P, 2P	01	6	309.1	261.5	4.2	Abt. 2.9~3.5VA	85% Maximum	30% Maximum	110% Maximum
	02	12	200.2	169.4	18				
	03	24	129.7	109.7	72				
	06	120	28.0	24.3	1,700				
	08	240	13.2	11.3	7,200				
RP/T (VAC) 3P	01	6	371.4	317.3	3.2	Abt. 3.8~4.6VA	85% Maximum	30% Maximum	110% Maximum
	02	12	253.3	216.4	14				
	03	24	172.8	147.6	55				
	05/06	120	37.7	32.0	1,300				
	07/08	240	16.6	13.9	5,510				
RP/T (VDC)	02	12	100.0		120	Abt. 1.2 W	80% Maximum	10% Maximum	110% Maximum
	03	24	50.8		472				
	04	48	26.7		1,800				
	05	110	11.0		10,000				
	06	120	12.0		10,000				

Ordering Information

RPT - N 01 D M S F L T D	Diode:	Nil: Without Diode D: With Diode Selection
	Touch Button:	Nil: Without Test Button T: With Test Button
	LED:	Nil: Without LED L: With LED Selection
	Case Type:	Nil: Standard Square Shape F: Top with Flanged Case H: Side with Flanged Case
	Terminal Type:	S: Quick Connect Tabs (width 4.80mm) W: Quick Connect Tabs (width 6.50mm)
	Contact Form:	Nil: Form C M: Form A B: Form B
	Coil Type:	D: DC Coil A: AC Coil
	Coil Code:	01: 6V, 02: 12V, 03: 24V, 04: 48V, 05: 110V 06: 120V, 07: 220V, 08: 240V
	Number of Pole:	N: Common 2: 2 Poles 3: 3 Poles
	Type:	RP RPT

Classification

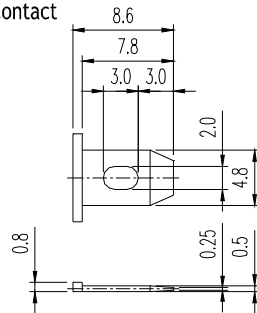
Model	RP(T)		
Coil Type	AC Coil		
Contact Form	1 Pole	2 Poles	3 Poles(RP)
Number of Poles	1A / 1B	2C / 2A / 2B	3C / 3A / 3B
Terminal Type	RP(T)-N□□AS/AMS/ABS RP(T)-N□□AW/AMW/ABW	RP(T)-2□□AS/AMS/ABS RP(T)-2□□AW/AMW/ABW	RP(T)-3□□AS/AMS/ABS RP(T)-3□□AW/AMW/ABW
Case Type	RP(T)-N/2/3□□ASH/AMSH/ABSH RP(T)-N/2/3□□ASF/AMSF/ABSF	RP(T)-N/2/3□□AWH/AMWH/ABWH RP(T)-N/2/3□□AWF/AMWF/ABWF	
LED	RP(T)-N/2/3□□ASFL/AMSFL/ABSFL RP(T)-N/2/3□□AWFL/AMWFL/ABWFL		
Touch Button	RP(T)-N/2/3□□ASLT/AMSLT/ABSLT RP(T)-N/2/3□□ASFLT/AMSFLT/ABSFLT RP(T)-N/2/3□□AWFLT/AMWFLT/ABWFLT		
Diode	RP(T)-N/2/3□□ASFLTD/AMSFLTD/ABSFLTD RP(T)-N/2/3□□AWFLTD/AMWFLTD/ABWFLTD		

Model	RP(T)		
Coil Type	DC Coil		
Contact Form	1 Pole	2 Poles	3 Poles
Number of Poles	1A / 1B	2C / 2A / 2B	3C / 3A / 3B
Terminal Type	RP(T)-N□□DS/DMS/DBS RP(T)-N□□DW/DMW/DBW	RP(T)-2□□DS/DMS/DBS RP(T)-2□□DW/DMW/DBW	RP-3□□DS/DMS/DBS RP-3□□DW/DMW/DBW
Case Type	RP(T)-N/2/3□□DSH/DMSH/DBSH RP(T)-N/2/3□□DSF/DMSF/DBSF	RP(T)-N/2/3□□WH/DMWH/DBWH RP(T)-N/2/3□□DWF/DMWF/DBWF	
LED	RP(T)-N/2/3□□DSFL/DMSFL/DBSFL RP(T)-N/2/3□□DWFL/DMWFL/DBWFL		
Touch Button	RP(T)-N/2/3□□DSLTD/DMSLTD/DBSLTD RP(T)-N/2/3□□DSFLT/DMSFLT/DBSFLT RP(T)-N/2/3□□DWFLT/DMWFLT/DBWFLT		
Diode	RP(T)-N/2/3□□DSFLTD/DMSFLTD/DBSFLTD RP(T)-N/2/3□□DWFLTD/DMWFLTD/DBWFLTD		

Terminal Dimensions ($\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$, the tolerance of PCB thru hole: $+0.1\text{mm}$)

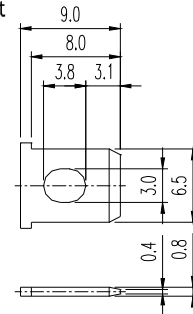
RP

.189" (4.8mm)
Quick Contact



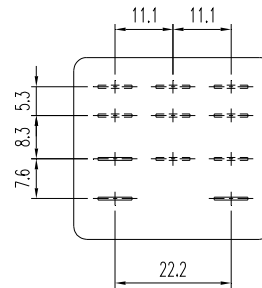
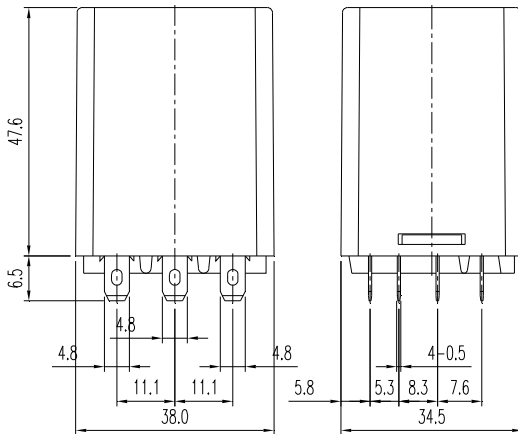
RPT

.256" (6.5mm)
Quick Contact

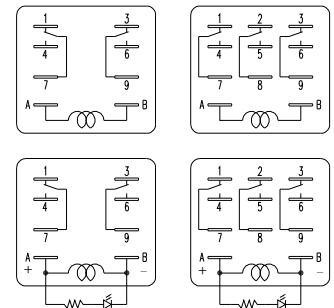


Dimension ($\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$, the tolerance of PCB thru hole: $+0.1\text{mm}$)

RP

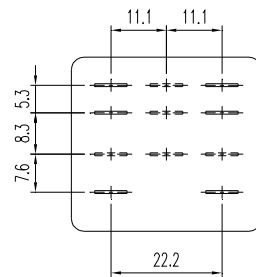
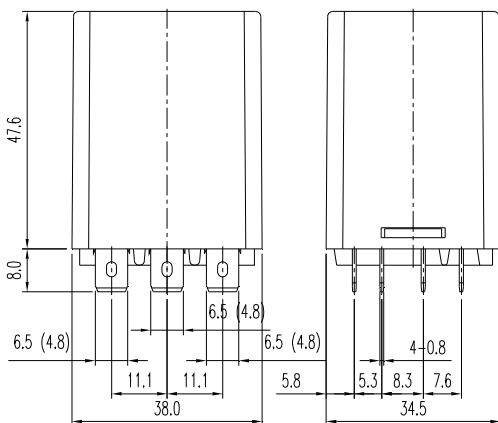


BOTTOM VIEW

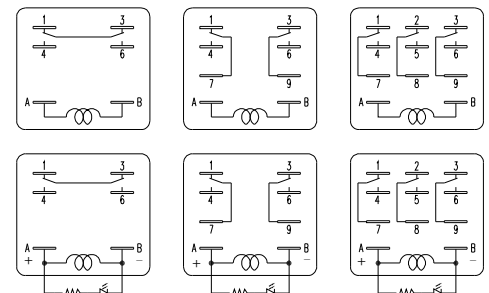


BOTTOM VIEW

RPT



BOTTOM VIEW



BOTTOM VIEW