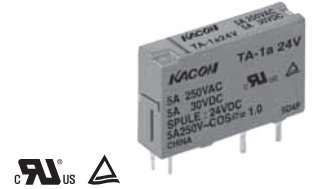


General Purpose Relay

TA,TR Series



Part Number Description

T ① - 1a - ②

① Terminals Distance	A : 5.08mm	R : 7.62mm	
② Coil Voltage	05V : 5VDC	12V : 12VDC	24V : 24VDC

General Specification




Contact Ratings	Contact Form	1N/O		
	Contact Material	Ag alloy (24K gold plate)		
	Maximum Contact Resistance	30mΩ		
	Rated Current(Resistance Load)	5A 30VDC	5A 250VAC	
	Maximum Switching Current	5A		
	Maximum Contact DC Capacity	150W		
	Maximum Contact AC Capacity	1,250VA		
Coil Ratings	Maximum Rated Voltage	110VDC 250VAC		
	Minimum Switching Current *	1mA 5VDC		
	Coil Voltage	5VDC 12VDC 24VDC		
	Coil Consumption	120mW, 180mW		
	Minimum Pick Up Voltage	70% of Nominal Voltage		
General Ratings	Maximum Drop Out Voltage	5% of Nominal Voltage		
	Insulation	Class F 155°C		
	Operating Time	Maximum Pick-up	6ms at nominal Voltage	
		Minimum Drop-out	3ms at nominal Voltage	
	Insulation Resistance	Min. 1,000MΩ (500VDC)		
	Dielectric Strength	Between Contact Points	1,000VACrms 1 minute	
		Between Contact Points and Coil	2,000VACrms 1 minute	
	Surge Voltage	Between Contact Points and Coil	4,000V	
	Life Cycle	Mechanical	Min. 10,000,000	
		Electrical	Min. 100,000 (Under Rated Load)	
Vibration Resistance	Malfunction	Min. 147m/s ² (15G), 10 - 55Hz (width of vibration : 2.5mm)		
	Destruction	Min. 205.8m/s ² (21G), 10 - 55Hz (width of vibration : 3.5mm)		
Shock Resistance	Malfunction	Min. 15G (147m/s ²)		
	Destruction	Min. 100G (980m/s ²)		
Ambient Temperature	-40 ~ +70°C (with no icing)			
Ambient Humidity	5% ~ 85% RH			
Weight	Approx. 3g			

☞ Please refer to the attention section.

☞ Specifications and materials can be changed without prior notice for the enhancement of the quality.

* The minimum switching current is indicated as a standard value. The actual minimum switching rate is variable factor according to the make and break frequency, environmental condition and anticipated credibility level. Therefore, it is recommended that tests be done to test actual load value before the production process.

Product Selection

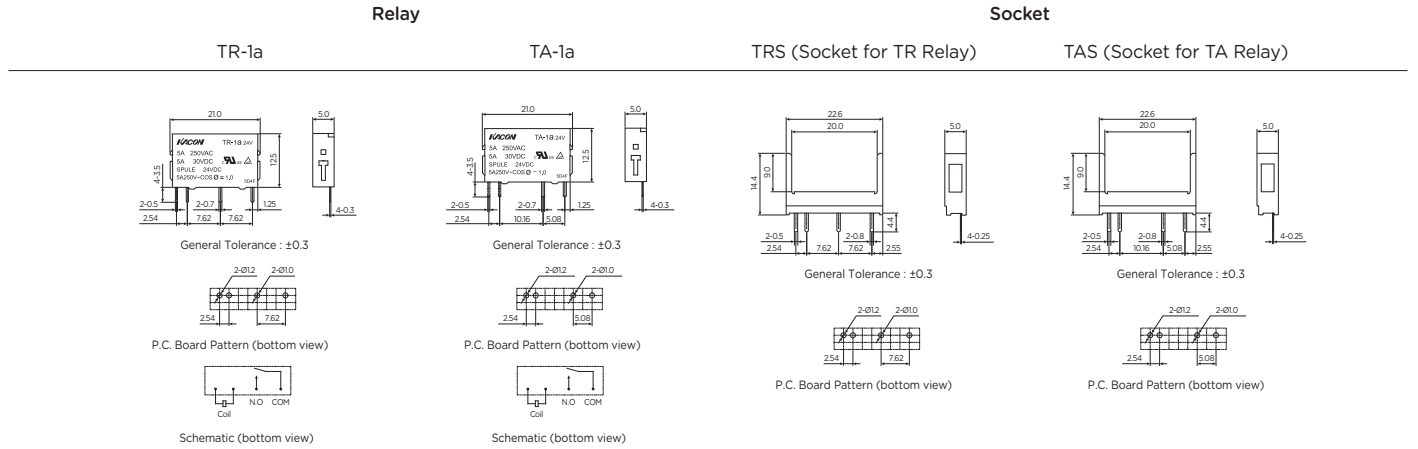
	Terminals Distance	Socket	Rated Voltage	Part Number	Terminals Distance	Socket	Rated Voltage	Part Number
	7.62mm	 TRS	5VDC	TR-1a 5V	5.08mm	 TAS	5VDC	TA-1a 5V
			12VDC	TR-1a 12V			12VDC	TA-1a 12V
			24VDC	TR-1a 24V			24VDC	TA-1a 24V

General Purpose Relay

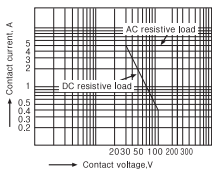
TA,TR Series

Dimension

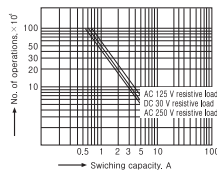
(mm)



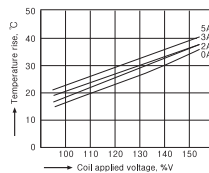
Technical Data



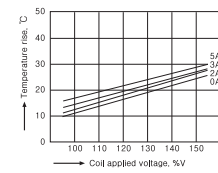
1. Maximum Contact Capacity



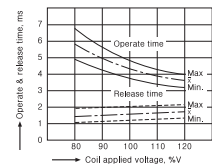
2. Life Cycle Curve



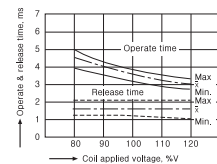
3. (1) Coil Temperature Rise (120mW)
Model : TA-1a 12V
Ambient temperatures : 20°C
Measured area : inner coil



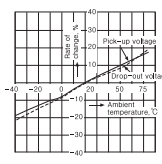
3. (2) Coil Temperature Rise (180mW)
Model : TA-1a 24V
Ambient temperatures : 20°C
Measured area : inner coil



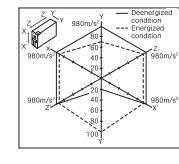
4. (1) Operating Time and cut-off (120mW)
Model : TA-1a 12V



4. (2) Operating Time and cut-off (180mW)
Model : TA-1a 24V



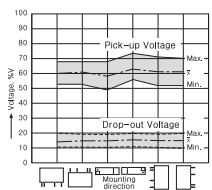
5. Specifications of the ambient temperature
Model : TA-1a 12V



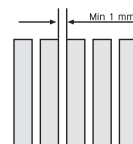
6. Failure shock

Caution

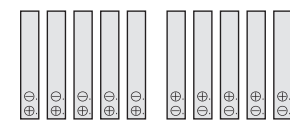
1. The operating voltage specification of Relay according to method of relay attachment is as follows



2. When installing relay within 1mm close range, please pay attention to the followings



1) Relay installation must be towards same direction



2) Coil terminal polarity must be towards same direction

General Purpose Relay

K505 Series



Part Number Description

K505 - 1 2

1 Contact Arrangement	2PL : 2N/O + 2N/C (LED)	4PL : 4N/O + 4N/C (LED)		
2 Coil Voltage	12VDC	24VDC	100/110VDC	
	12VAC 50/60 Hz	24VAC 50/60 Hz		
	100/110VAC 50/60 Hz	110/120VAC 50/60 Hz	200/220VAC 50/60 Hz	220/240VAC 50/60 Hz

General Specification

Contact Ratings	Contact Form	2N/O + 2N/C	4N/O + 4N/C			
	Contact Material	Ag alloy (24K gold plate)				
	Maximum Contact Resistance	50mΩ				
	Rated Current (Resistance Load)	2N/O + 2N/C	4N/O + 4N/C			
		7A 30VDC 7A 250VAC	5A 30VDC 5A 250VAC			
	Maximum Switching Current	7A	5A			
	Maximum Contact Capacity	DC	210W	150W		
		AC	1,750VA	1,200VA		
Maximum Rated Voltage	125VDC / 250VAC					
Minimum Switching Current *	100mA 5VDC					
Coil Ratings	Coil Voltage	12VDC	24VDC	110VDC		
		12VAC 50/60 Hz	24VAC 50/60 Hz			
		100/110VAC 50/60 Hz	110/120VAC 50/60 Hz	200/220VAC 50/60 Hz	220/240VAC 50/60Hz	
	Coil Consumption	DC Coil : 0.9W to 1.1W				
		AC Coil : 0.9VA to 1.2VA (60Hz)				
Minimum Pick Up Voltage	80% of Nominal Voltage					
Maximum Drop-out Voltage	10% of Nominal Voltage DC 30% of Nominal Voltage AC					
General Ratings	Operating Time	Maximum Pick-up	20ms			
		Minimum Drop-out	20ms			
	Insulation Resistance	100MΩ at 500VDC				
	Dielectric Strength	Between Contact Points: 1,000Vrms 1 minute				
		Between Contact Points and Coil : 1,500Vrms 1 minute				
	Life Cycle	Mechanical : Min. 1,000,000				
		Electronic : Min. 200,000				
	Vibration Resistant	10 - 55Hz (width of vibration 1.5mm)				
	Ambient Temperature	-35 ~ +55°C (with no icing)				
	Ambient Humidity	30% ~ 80% RH				
Weight	Approx. 35g					

¹ Please refer to the attention section.


² Specifications and materials can be changed without prior notice for the enhancement of the quality.

* The minimum switching current is indicated as a standard value. The actual minimum Switching rate is variable factor according to the make and break frequency, environmental condition and anticipated credibility level. Therefore, it is recommended that tests be done to test actual load value before the production process.

General Purpose Relay

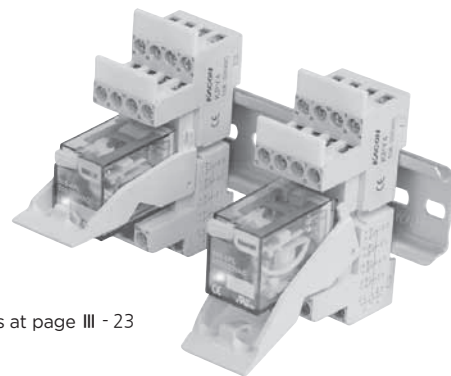
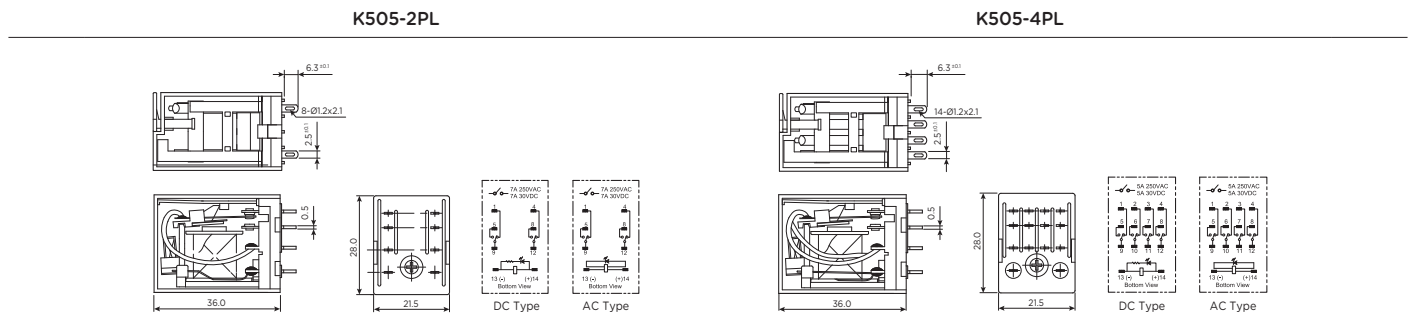
K505 Series

Product Selection

	Contact Form	Socket	Rated Voltage	Illumination	Part Number	Weight (g)
	2 Pole (2N/O + 2N/C)	KPY2	220VAC	K505-2PL 220VAC		35g
		KMY2	110VAC	K505-2PL 110VAC		
		KY08	24VAC	K505-2PL 24VAC		
		(For soldering)	110VDC	K505-2PL 110VDC		
		KY08-02	24VDC	K505-2PL 24VDC		
		(For P.C Board)	12VDC	K505-2PL 12VDC		
	4 Pole (4N/O + 4N/C)	KPY4	220VAC	K505-4PL 220VAC		35g
		KMY4	110VAC	K505-4PL 110VAC		
		KMY4S	24VAC	K505-4PL 24VAC		
		KY14	110VDC	K505-4PL 110VDC		
		(For soldering)	24VDC	K505-4PL 24VDC		
		KY14-02	12VDC	K505-4PL 12VDC		
		(For P.C Board)				

Dimension

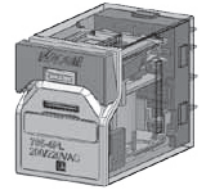
(mm)



☞ Refer to the socket drawings at page III - 23

General Purpose Relay

K705 Series



(Under development)

Part Number Description

K705	-	1	2	3	4
1 Contact Arrangement	1P : 1N/O + 1N/C (Option)	2P : 2N/O + 2N/C	4P : 4N/O + 4N/C		
2 Mounting & Terminal	No mark : Socket-plug-in, Solder		P : PC Board-pin		
3 Option	No mark : Standard		L : LED indicator (DC Coil : green, AC Coil : red)		
	LD : LED indicator + freewheeling Diode (DC)		LC : LED indicator + Built-in the Surge Adsorbent Circuit (AC)		
4 Coil Voltage	12VDC	24VDC	100/110VDC		
	12VAC 50/60 Hz	24VAC 50/60 Hz			
	100/110VAC 50/60 Hz	110/120VAC 50/60 Hz	200/220VAC 50/60 Hz	220/240VAC 50/60 Hz	

General Specification

Contact Ratings	Contact Form	2N/O + 2N/C	4N/O + 4N/C		
	Contact Material	Ag alloy (24K gold plate)			
	Maximum Contact Resistance	50mΩ			
	Rated Current (Resistance Load)	2N/O + 2N/C	4N/O + 4N/C		
		5A 24VDC 5A 240VAC	5A 24VDC 5A 240VAC		
	Maximum Switching Current	5A		5A	
	Maximum Rated Voltage	125VDC / 250VAC			
Minimum Switching Current*	100mA 5VDC				
Coil Ratings	Coil Voltage	12VDC	24VDC	100/110VDC	
		12VAC 50/60 Hz	24VAC 50/60 Hz		
		100/110VAC 50/60 Hz	110/120VAC 50/60 Hz	200/220VAC 50/60 Hz	220/240VAC 50/60 Hz
	Coil Consumption	DC Coils : Approx. 0.9W AC Coils : Approx. 0.9VA			
	Minimum Pick-up Voltage	80% of Nominal Voltage			
	Maximum Dropout Voltage	10% of Nominal Voltage DC 30% of Nominal Voltage AC			
General Ratings	Operating Time	Max. Pickup : 20ms			
		Max. Dropout : 20ms			
	Insulation Resistance	100MΩ at 500VDC			
	Dielectric Strength	Between Contact Points : 1,000Vrms 1 minute			
		Between Contact Points and Coil : 1,500Vrms 1 minute			
	Life Cycle	Mechanical : Min. 1,000,000			
		Electrical : Min. 100,000			
	Vibration Resistant	10 - 55Hz width of Vibration 1.5mm			
	Ambient Temperature	-35 ~ +55°C (with no icing)			
Ambient Humidity	35% - 80% RH				
Weight	33g				

☞ Please refer to the attention section.

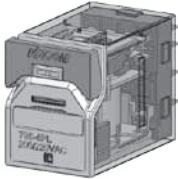
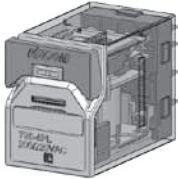
☞ Specifications and materials can be changed without prior notice for the enhancement of the quality.

* The minimum switching current is indicated as a standard value. The actual minimum switching rate is variable factor according to the make and break frequency, environmental condition and anticipated credibility level. Therefore, it is recommended that tests be done to test actual load value before the production process.

General Purpose Relay

K705 Series

Product Selection

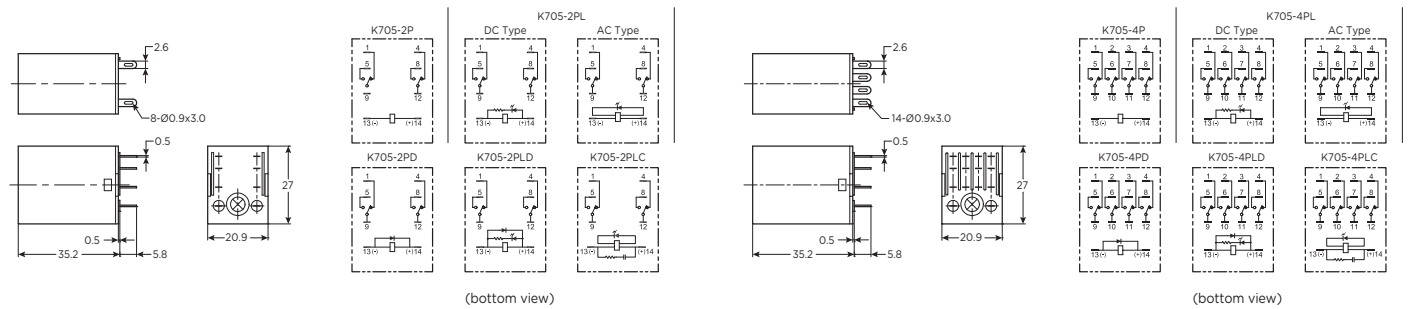
	Contact Form	Socket	Rated Voltage	Part Number			Weight (g)
				Non-Illumination	Illumination	Illumination Surge Absorption Circuit	
	2 Pole (2N/O + 2N/C)	KMY2 KY08 (For soldering) KY08-0 (For P.C Board)	220VAC	K705-2P 220VAC	K705-2PL 220VAC	K705-2PLC 220VAC	33g
			110VAC	K705-2P 110VAC	K705-2PL 110VAC		33g
			24VAC	K705-2P 24VAC	K705-2PL 24VAC		33g
			110VDC	K705-2P 110VDC	K705-2PL 110VDC		33g
			24VDC	K705-2P 24VDC	K705-2PL 24VDC	K705-2PLD 24VDC	33g
			12VDC	K705-2P 12VDC	K705-2PL 12VDC		33g
	4 Pole (4N/O + 4N/C)	KMY4 KMY4S KY14 (For soldering) KY14-0 (For P.C Board)	220VAC	K705-4P 220VAC	K705-4PL 220VAC	K705-4PLC 220VAC	33g
			110VAC	K705-4P 110VAC	K705-4PL 110VAC		33g
			24VAC	K705-4P 24VAC	K705-4PL 24VAC		33g
			110VDC	K705-4P 110VDC	K705-4PL 110VDC		33g
			24VDC	K705-4P 24VDC	K705-4PL 24VDC	K705-4PLD 24VDC	33g
			12VDC	K705-4P 12VDC	K705-4PL 12VDC		33g

Dimension

(mm)

K705-2P Series

K705-4P Series



- K705 surge absorption circuit models contain a circuit to absorb with coil surge absorption diodes, and models with coil surge absorption varistor circuits were used in

It is suitable to apply where malfunctioning or disturbances are likely to happen in such devices as PLC.

- In case where relay Contact point (PLC relay output card) is tracked, damages on Contact points of other tracking devices are reduced by absorbing surge and it is possible to use high priced equipment for a long period of time.

☞ Refer to the socket drawings at page III - 23

General Purpose Relay

HR705 Series



Part Number Description

HR705 - ① ② ③ ④

① Contact Arrangement	1P : 1N/O + 1N/C (Option)	2P : 2N/O + 2N/C	3P : 3N/O + 3N/C (Option)	4P : 4N/O + 4N/C
② Mounting & Terminal	No mark : Socket-plug-in, Solder		P : PC Board-pin	
③ Option	No mark : Standard		L : LED indicator (DC Coil : green, AC Coil : red)	
	LD : LED indicator + freewheeling Diode (DC)		LC : LED indicator + Built-in the Surge Adsorbent Circuit (AC)	
④ Coil voltage	12VDC	24VDC	100/110VDC	
	12VAC 50/60 Hz	24VAC 50/60 Hz		
	100/110VAC 50/60 Hz	110/120VAC 50/60 Hz	200/220VAC 50/60 Hz	220/240VAC 50/60 Hz

General Specification

Contact Ratings	Contact Form	2N/O + 2N/C	4N/O + 4N/C			
	Contact Material	Ag alloy (24K gold plate)				
	Maximum Contact Resistance	Max. 50mΩ				
	Rated Current (Resistance Load)	2N/O + 2N/C	4N/O + 4N/C			
		5A 24VDC 5A 240VAC	5A 24VDC	5A 240VAC		
	Maximum Switching Current	5A	5A			
	Maximum Rated Voltage	125VDC / 250VAC				
Minimum Switching Current *	100mA 5VDC					
Coil Ratings	Coil Voltage	12VDC	24VDC	100/110VDC		
		12VAC 50/60 Hz	24VAC 50/60 Hz			
		100/110VAC 50/60 Hz	110/120VAC 50/60 Hz	200/220VAC 50/60 Hz	220/240VAC 50/60 Hz	
	Coil Consumption	DC Coils : Approx. 0.9W AC Coils : Approx. 0.9VA				
	Minimum Pick-up Voltage	80% of Nominal Voltage				
Maximum Drop-out Voltage	10% of Nominal Voltage DC					
	30% of Nominal Voltage AC					
Operating Time	Maximum Pick-up	20ms				
	Minimum Drop-out	20ms				
Insulation Resistance	100MΩ at 500VDC					
Dielectric Strength	Between Contact Points : 1,000Vrms 1 minute					
	Between Contact Points and Coil : 1,500Vrms 1 minute					
Life Cycle	Mechanical : Min. 1,000,000					
	Electrical : Min. 100,000					
Vibration Resistant	10 - 55Hz (width of Vibration 1.5mm)					
Ambient Temperature	-35 ~ +55°C (with no icing)					
Ambient Humidity	35% - 80% RH					
Weight	Approx. 33g					

☞ Please refer to the attention section.



☞ Specifications and materials can be changed without prior notice for the enhancement of the quality.

* The minimum switching current is indicated as a standard value. The actual minimum Switching rate is variable factor according to the make and break frequency, environmental condition and anticipated credibility level. Therefore, it is recommended that tests be done to test actual load value before the production process.

General Purpose Relay

HR705 Series

Product Selection

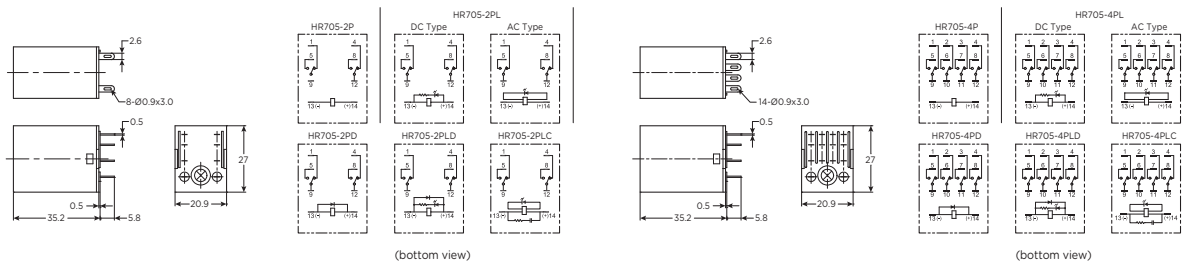
	Contact Form	Socket	Rated Voltage	Part Number			Weight (g)
				Non-Illumination	Illumination	Illumination Surge Absorption Circuit ¹⁾	
	2 Pole (2N/O + 2N/C)	KMY2	220VAC	HR705-2P 220VAC	HR705-2PL 220VAC	HR705-2PLC 220VAC	33g
		KY08	110VAC	HR705-2P 110VAC	HR705-2PL 110VAC		33g
		(For soldering)	24VAC	HR705-2P 24VAC	HR705-2PL 24VAC		33g
		KY08-02	110VDC	HR705-2P 110VDC	HR705-2PL 110VDC		33g
		(For P.C Board)	24VDC	HR705-2P 24VDC	HR705-2PL 24VDC	HR705-2PLD 24VDC	33g
			12VDC	HR705-2P 12VDC	HR705-2PL 12VDC		33g
	4 Pole (4N/O + 4N/C)	KMY4	220VAC	HR705-4P 220VAC	HR705-4PL 220VAC	HR705-4PLC 220VAC	33g
		KMY4S	110VAC	HR705-4P 110VAC	HR705-4PL 110VAC		33g
		KY14	24VAC	HR705-4P 24VAC	HR705-4PL 24VAC		33g
		(For soldering)	110VDC	HR705-4P 110VDC	HR705-4PL 110VDC		33g
		KY14-02	24VDC	HR705-4P 24VDC	HR705-4PL 24VDC	HR705-4PLD 24VDC	33g
		(For P.C Board)	12VDC	HR705-4P 12VDC	HR705-4PL 12VDC		33g

Dimension

(mm)

HR705-2P Series

HR705-4P Series



- HR705 surge absorption circuit models contain a circuit to absorb with coil surge absorption diodes, and models with coil surge absorption varistor circuits were used in

It is suitable to apply where malfunctioning or disturbances are likely to happen in such devices as PLC.

- In case where relay Contact point (PLC relay output card) is tracked, damages on Contact points of other tracking devices are reduced by absorbing surge and it is possible to use high priced equipment for a long period of time.

¹⁾ Refer to the socket drawings at page III - 23

General Purpose Relay

HR710 Series



Part Number Description

HR710 - ① ② ③ ④

① Contact Arrangement	1P : 1N/O + 1N/C	2P : 2N/O + 2N/C	4P : 4N/O + 4N/C	
② Mounting & Terminal	No mark : Blade-Style, Solder		P : PC Board-pin (option)	
③ Option	No mark : Standard		L : LED indicator (DC Coil : green, AC Coil : red)	
	LD : LED indicator + freewheeling Diode (DC)		LC : LED indicator + Built-in the Surge Adsorbent Circuit (AC)	
④ Coil Voltage	12VDC	24VDC	100/110VDC	
	12VAC 50/60 Hz	24VAC 50/60 Hz		
	100/110VAC 50/60 Hz	110/120VAC 50/60 Hz	200/220VAC 50/60 Hz	220/240VAC 50/60 Hz

General Specification

Contact Ratings	Contact Form	1N/O + 1N/C	2N/O + 2N/C	4N/O + 4N/C	
	Contact Material	Ag alloy (24K gold plate)			
	Maximum Contact Resistance	50mΩ			
	Rated Current (Resistance Load)	1N/O + 1N/C	2N/O + 2N/C	4N/O + 4N/C	
		15A 24VDC 15A 220VAC	10A 24VDC 10A 220VAC		
	Maximum Switching Current	15A	10A		
	Maximum Rated Voltage	125VDC / 250VAC			
Minimum Switching Current *	100mA 5VDC				
Coil Ratings	Coil Voltage	12VDC	24VDC	100/110VDC	
		12VAC 50/60 Hz	24VAC 50/60 Hz		
		100/110VAC 50/60 Hz	110/120VAC 50/60 Hz	200/220VAC 50/60 Hz	220/240VAC 50/60 Hz
	Coil Consumption	1P, 2P DC Coil = Approx. 0.9W / 4P DC Coil = Approx. 1.5W 1P, 2P AC Coil = Approx. 1.2VA / 4P AC Coil = Approx. 2.5VA			
	Minimum Pick-up Voltage	80% of Nominal			
Maximum Drop Out Voltage	10% of Nominal Voltage DC				
	30% of Nominal Voltage AC				
General Ratings	Operating Time	Maximum Pick-up	25ms		
		Minimum Drop-out	25ms		
	Insulation Resistance	100MΩ at 500VDC			
	Dielectric Strength	Between Contact Points : 1,000Vrms 1 Minute.			
		Between Contact Points and coil : 1,500Vrms 1 Minute.			
	Life Cycle	Mechanical : Min. 1,000,000			
		Electrical : Min. 100,000			
	Vibration Resistant	10 - 55Hz (width of vibration 1.5mm)			
	Ambient Temperature	-25 ~ + 55°C (with no icing)			
	Ambient Humidity	35% - 80% RH			
Weight	2P : Approx. 33g , 4P : Approx. 65g				

☞ Please refer to the attention section.




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* The minimum switching current is indicated as a standard value. The actual minimum Switching rate is variable factor according to the make and break frequency, environmental condition and anticipated credibility level. Therefore, it is recommended that tests be done to test actual load value before the production process.

General Purpose Relay

HR710 Series

Product Selection

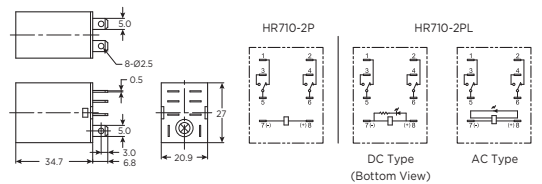
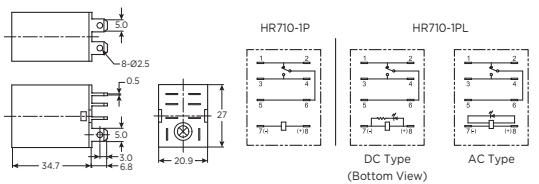
	Contact Form	Socket	Rated Voltage	Part Number			Weight (g)
				Non-Illumination	Illumination	Illumination Surge Absorption Circuit	
	1 Pole (1N/O + 1N/C)		220VAC	HR710-1P 220VAC	HR710-1PL 220VAC	HR710-1PLC 220VAC	33g
			110VAC	HR710-1P 110VAC	HR710-1PL 110VAC		33g
			24VAC	HR710-1P 24VAC	HR710-1PL 24VAC		33g
			110VDC	HR710-1P 110VDC	HR710-1PL 110VDC		33g
			24VDC	HR710-1P 24VDC	HR710-1PL 24VDC	HR710-1PLD 24VDC	33g
			12VDC	HR710-1P 12VDC	HR710-1PL 12VDC		33g
	2 Pole (2N/O + 2N/C)	KLY2 KT08 (For soldering) KY08-0 (For P.C Board)	220VAC	HR710-2P 220VAC	HR710-2PL 220VAC	HR710-2PLC 220VAC	33g
			110VAC	HR710-2P 110VAC	HR710-2PL 110VAC		33g
			24VAC	HR710-2P 24VAC	HR710-2PL 24VAC		33g
			110VDC	HR710-2P 110VDC	HR710-2PL 110VDC		33g
			24VDC	HR710-2P 24VDC	HR710-2PL 24VDC	HR710-2PLD 24VDC	33g
			12VDC	HR710-2P 12VDC	HR710-2PL 12VDC		33g
	4 Pole (4N/O + 4N/C)	KLY4 KTF14A	220VAC	HR710-4PL 220VAC		HR710-4PLC 220VAC	65g
			110VAC	HR710-4PL 110VAC			65g
			24VAC	HR710-4PL 24VAC			65g
			110VDC	HR710-4PL 110VDC			65g
			24VDC	HR710-4PL 24VDC	HR710-4PLD 24VDC	65g	
			12VDC	HR710-4PL 12VDC		65g	

Dimension

(mm)

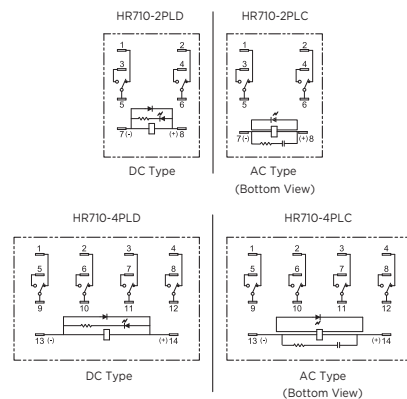
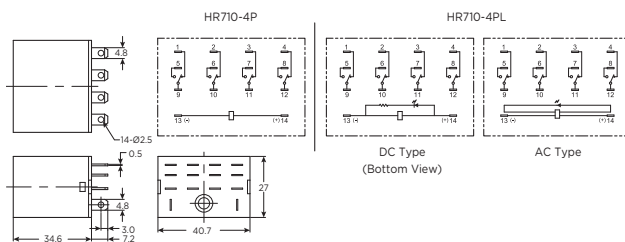
HR710-1P Series

HR710-2P Series



HR710-4P Series

HR710 (Surge Absorption type)



- HR710 surge absorption contains a circuit to absorb with coil surge absorption diodes, and models with coil surge absorption varistor circuits were used in. It is suitable to apply where malfunctioning or disturbances are likely to happen in such devices as PLC.
- In case where relay contact (PLC relay output card) is tracked, damages on contacts of other tracking devices are reduced by absorbing surge and it is possible to use high priced equipment for a long period of time.

General Purpose Relay

HR707N Series



Part Number Description

HR707N - ① ② ③ ④

① Contact Arrangement	2P : 2N/O + 2N/C	3P : 3N/O + 3N/C			
② Option	No mark : Standard (Mechanical indicator equipped)		L : LED Indicator (DC Coil : Green, AC Coil : Red)		
	LD : LED Indicator + Freewheeling Diode (DC)		LC : LED Indicator + Built-in the Surge Adsorbent Circuit (AC)		
③ Coil Voltage	12VDC	24VDC	100/110VDC		
	12VAC 50/60 Hz	24VAC 50/60 Hz	100/110/120VAC 50/60 Hz	200/220VAC 50/60 Hz	220/240VAC 50/60 Hz

General Specification

Contact Ratings	Contact Form	2N/O + 2N/C	3N/O + 3N/C		
	Contact Material	Ag alloy (24K gold plate)			
	Maximum Contact Resistance	50mΩ			
	Rated Current (Resistance Load)	2N/O + 2N/C	3N/O + 3N/C		
		10A 28VDC			
	Maximum Switching Current	10A 250VAC			
		10A			
Coil Ratings	Maximum Rated Voltage	250VDC / 250VAC			
	Minimum Switching Current *	100mA 5VDC			
	Coil Voltage	12VDC	24VDC	100/110VDC	
		12VAC 50/60 Hz	24VAC 50/60 Hz		
		100/110/120VAC 50/60 Hz	200/220VAC 50/60 Hz	220/240VAC 50/60 Hz	
Coil Consumption	DC : 1.6W Approx.				
	AC : 2.4VA Approx.				
	Minimum Pick-up Voltage	80% of Nominal			
	Maximum Drop Out Voltage	10% of Nominal Voltage DC			
30% of Nominal Voltage AC					
Operating Time	Maximum Pick-up	30ms			
	Minimum Drop-out	20ms			
Insulation Resistance	100MΩ at 500VDC				
Dielectric Strength	Between Contact Points : 1,000Vrms for 1 minute.				
	Between Contact Points and Coil : 1,500Vrms for 1 minute.				
Life Cycle	Mechanical : Min. 10,000,000				
	Electrical : Min. 100,000				
Vibration Resistant	10 - 55Hz width of vibration 1.5mm				
Ambient Temperature	-10 - +40°C (with no icing)				
Ambient Humidity	35% - 80%RH				
Weight	Approx. 75g				

☞ Please refer to the attention section.



☞ Specifications and materials can be changed without prior notice for the enhancement of the quality.

* The minimum switching current is indicated as a standard value. The actual minimum Switching rate is variable factor according to the make and break frequency, environmental condition and anticipated credibility level. Therefore, it is recommended that tests be done to test actual load value before the production process.

General Purpose Relay

HR707N Series

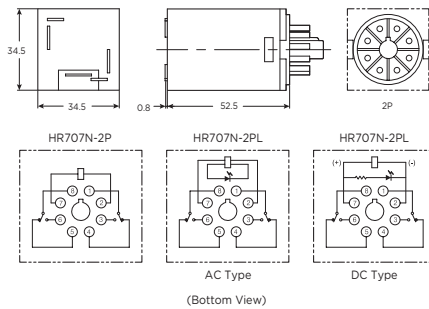
Product Selection

	Contact Form	Socket	Rated Voltage	Part Number			Weight (g)
				Non-Illumination	Illumination	Illumination Surge Absorption Circuit	
	2 Pole (2N/O + 2N/C)	KF083A KPZ2	220VAC	HR707N-2P 220VAC	HR707N-2PL 220VAC	HR707N-2PLC 220VAC	75g
			110VAC	HR707N-2P 110VAC	HR707N-2PL 110VAC		75g
			110VDC	HR707N-2P 110VDC	HR707N-2PL 110VDC		75g
			24VDC	HR707N-2P 24VDC	HR707N-2PL 24VDC	HR707N-2PLD 24VDC	75g
	3 Pole (3N/O + 3N/C)	KF113A KPZ3	220VAC	HR707N-3P 220VAC	HR707N-3PL 220VAC	HR707N-3PLC 220VAC	75g
			110VAC	HR707N-3P 110VAC	HR707N-3PL 110VAC		75g
			110VDC	HR707N-3P 110VDC	HR707N-3PL 110VDC		75g
			24VDC	HR707N-3P 24VDC	HR707N-3PL 24VDC	HR707N-3PLD 24VDC	75g

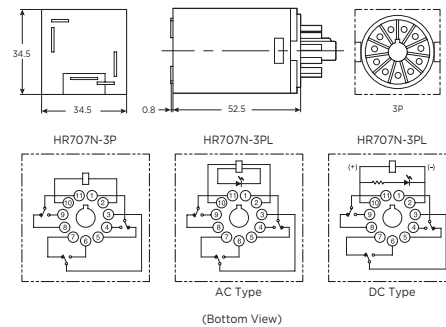
Dimension

(mm)

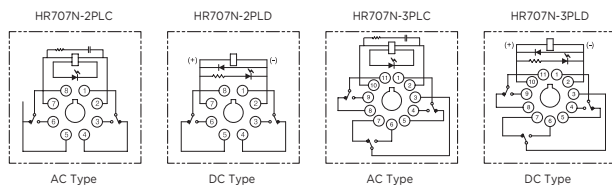
HR707N-2P Series



HR707N-3P Series





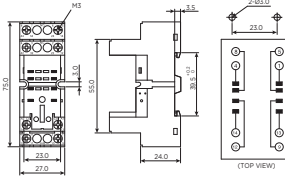


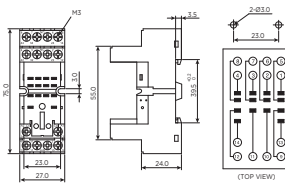


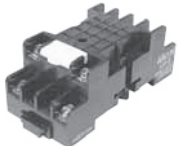

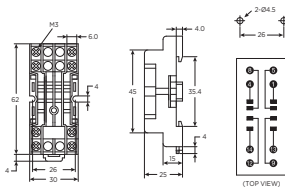


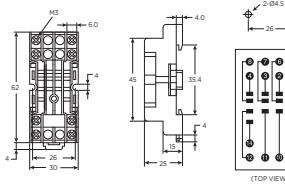


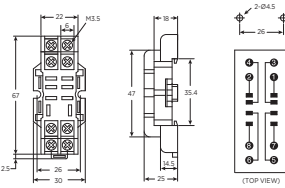
HR707N (surge absorption type)



- HR707N surge absorption models contains a circuit to absorb the noises that are produced from relay while relay tracking. It is suitable to apply where malfunctioning or disturbances are likely to happen in such devices as PLC.
- In case where relay Contact point (PLC relay output card) is tracked, damages on Contact points of other tracking devices are reduced by absorbing surge and it is possible to use high priced equipment for a long period of time.

Product Selection & Dimension

(mm)



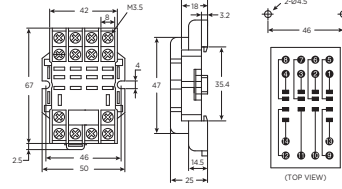


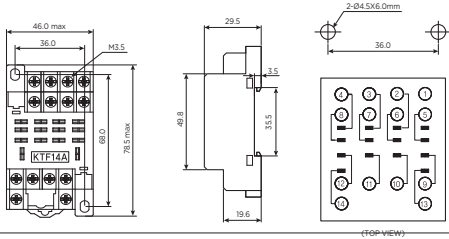


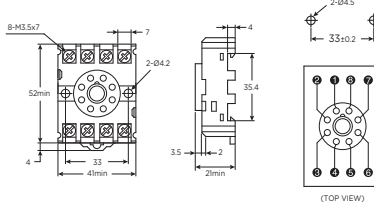


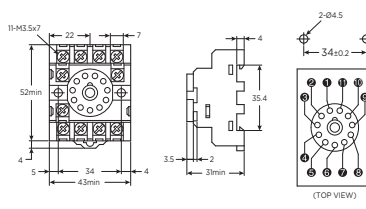


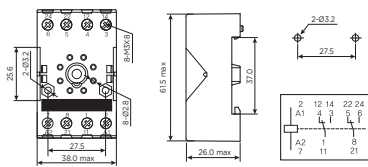


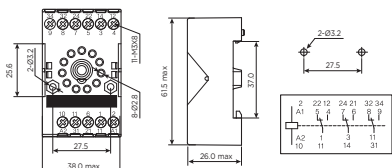
	Part Number (Color)	Certification	Relay	Dimension
	KPY2 (White)	CE  US	K505-2P	
	KPY4 (White)	CE  US	K505-4P	
Module	KPY-M			KPY-D
	KPY-M1 24VDC/AC KPY-M2 110VDC/AC KPY-M3 220VDC/AC KPY socket			
Varistor				Diode
	KMY2	CE  US	K505-2P HR705-2P	
	KMY4 (R, G, Y, B, Amber, Black(Basic))	CE  US	K505-4P HR705-4P	
	KLY2	CE  US	HR710-2P	

Data Processing

General Purpose Relay


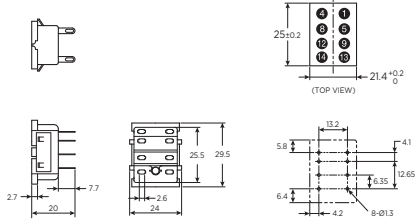

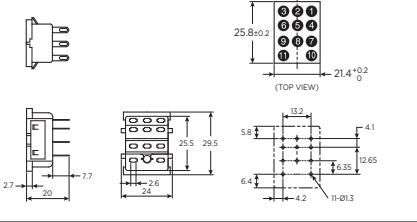

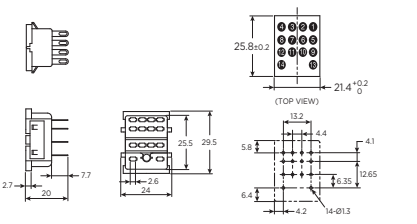

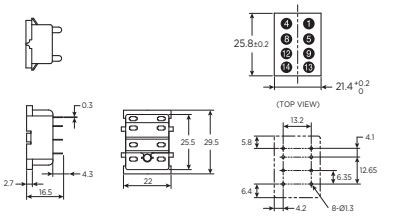
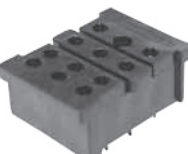
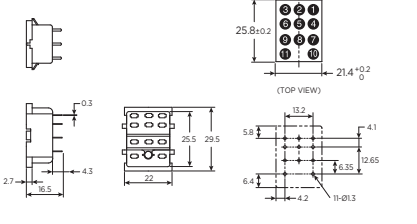

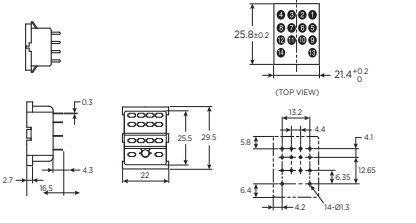
Product Selection & Dimension

(mm)

Part Number	Certification	Relay	Dimension
	KLY4		HR710-4P
			
	KTF14A		HR710-4P
			
	KF083A		HR707N-2P
			
	KF113A		HR707N-3P
			
	KPZ2		HR707N-2P TTL TTS
			
	KPZ3		HR707N-3P
			

Product Selection & Dimension

(mm)











Part Number	Certification	Relay	Dimension
	CE	K505-2PL HR705-2P Soldering	
	CE, UL [®] US	HR705-3P Soldering	
	CE	K505-4P HR705-4P Soldering	
	CE, UL [®] US	K505-2P HR705-2P PCB Type	
	CE, UL [®] US	HR705-3P PCB Type	
	CE, UL [®] US	K505-4P HR705-4P PCB Type	

Data Processing

General Purpose Relay









Product Selection & Dimension

(mm)

Part Number	Certification	Relay	Dimension
	KT08		HR710-2P Soldering
	KT08-0		HR710-2P PCB Type
	K2CF08		TTL
	K2CF08K		Waterlevel, FLR
	TAS (White)		TA-1a
	TRS (White)		TR-1a

Product Selection & Dimension

(mm)

Part Number	Certification	Relay	Dimension
	KMY4S G (Green)		K505-4P HR705-4P
	KCY4		K505-4P HR705-4P
	K2BF08		TTL
	K2BF11		TTL

Data Processing