

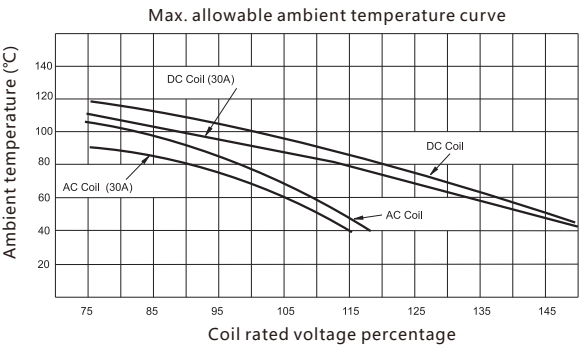
Product Data Sheet

Features:

- ✓ 30A contact switching capability
- ✓ The withstand voltage between the contact and the coil is 4KV, and the creepage distance is 8mm
- ✓ Plastic and dust cover types are available
- ✓ Available in both printed board and panel installations
- ✓ Sizes:(52.0× 33.7×26.7)mm
- ✓ A2L Certified



Performance graph:



Approvals:



Safety Certification	
Certification category	UL
Load requirement	NO: 30A 277VAC/250VAC (Resistive) 30A 240VAC/125VAC (Resistive) 2HP 600VAC (Motor) 1.5HP 120VAC (Motor) 3HP(20A) 240VAC (Motor) NC: 3A 277VAC/250VAC (Resistive) 3A 240VAC/125VAC (Resistive) 20A 650VAC (Resistive) 110LRA/25.3FLA,240VAC (Definite Purpose)
Contact Parameter	
Contact form	2A,2C
Contact resistance (1)	≤100mΩ(1A 6VDC)
Contact material	Cadmium Free
Contact load (resistance)	NO:30A 250VAC,30A 277VAC NC:3A 250VAC,3A 277VAC
Max. Switching Voltage	277VAC
Max. Switching Current	30A
Max. Switching Power	8310VA
Mechanical Life	5,000,000 ops.
Electrical Life (Resistive)	100,000 ops. (NO: 30A 277VAC, resistive load, room temperature, 1s on 9s off) 100,000 ops. (NC: 3A 277VAC, resistive load, room temperature, 1s on 9s off)

Note: (1) The above values are initial values.

Power Relay
MKR-T92 Series
30 Amps @277 VAC



Product Data Sheet

Performance Parameter		
Insulation resistance		1000MΩ(500VDC)
Dielectric Strength	Between coil & contacts	4000VAC 1min
	Between contacts &contacts	2000VAC 1min
	Between open contacts	1500VAC 1min
Surge voltage (Between coil & contacts)		10kV(1.2/50us)
Operating time (under rated voltage)		≤25ms (DC type)
Release time (under rated voltage)		≤25ms (DC type)
Coil temperature rise (at rated voltage)		≤90K(AC type);≤70K(DC type)
Vibration resistant		10Hz ~ 55Hz 1.65mm double amplitude
Impact resistance	Malfunction	98m/s ²
	Durability	980m/s ²
humidity		5% ~ 85%Rh
Operating Condition		AC type: -40℃ ~ 65℃; DC type: -40℃ ~ 85℃
Terminal Type		PCB type, quick connect type
weight		About 86g

Note: The above values are initial values.

Ordering Number:

MKR - T92 - 2 A 24D X C

Packing: - : Bulk Y: Individually Packed

Relay Type: T92

Number of Poles: 2 - Double Pole

Contact Arrangement: A - Form A
B - Form B
C - Form C

Coil Voltage/Frequency: See "Coil Selection Guide" table below

Mounting Type: Blank--PCB welding
Q1--Flange case with tab of flat quick-connect 6,35 × 0,8mm
Q2--Flange case with tab of flat quick-connect 4,75× 0,5mm

Sealing method: Blank--Dust protected (RT I) ; C--Fully sealed (RT III)

Product Data Sheet

Coil Selection Guide:

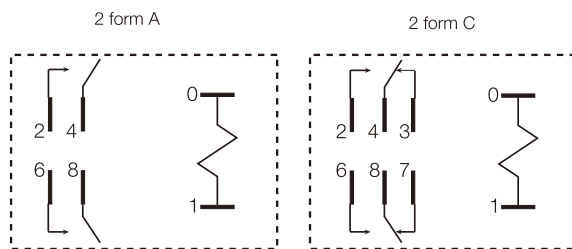
Coil Parameter (DC Type)								
Coil Code	Rated Voltage (VDC)	Operating Voltage (VDC)		Release Voltage (VDC)	Max. Voltage (VDC)	Coil Resistance ±10%(Ω)	Coil Power	
5D	5	≤3.8		≥0.5	8.0	15.3	about 1.7W	
6D	6	≤4.5		≥0.6	9.6	22		
9D	9	≤6.75		≥0.9	14.4	48		
12D	12	≤9		≥1.2	19.2	86		
24D	24	≤18		≥2.4	38.4	350		
48D	48	≤36		≥4.8	76.8	1390		
110D	110	≤82.5		≥11	176	7255		
Coil Parameter (AC Type 50Hz)								
Coil Code	Rated Voltage (VAC)	Operating Voltage (VAC)		Release Voltage (VAC)	Max. Voltage (VAC)	Coil Resistance ±10%(Ω)	Coil Power	
24A	24	≤19.2		≥4.8	26.4	45	about 4VA	
120A	120	≤96		≥24	132	1125		
208A	208	≤166.4		≥41.6	229	3278		
220A	220	≤176		≥44	242	3800		
240A	240	≤192		≥48	264	4500		
277A	277	≤221.6		≥55.4	305	5660		
Coil Parameter (AC Type 60Hz)								
Coil Code	Rated Voltage (VAC)	Operating Voltage (VAC)		Release Voltage (VAC)	Max. Voltage (VAC)	Coil Resistance ±10%(Ω)	Coil Power	
24A1	24	≤19.2		≥4.8	26.4	35.7	about 4VA	
120A1	120	≤96		≥24	132	830		
208A1	208	≤166.4		≥41.6	229	2600		
220A1	220	≤176		≥44	242	2870		
240A1	240	≤192		≥48	264	3800		
277A1	277	≤221.6		≥55.4	305	4700		
Coil Parameter (AC Type 50Hz/60Hz)								
Coil Code	Rated Voltage (VAC)	Operating Voltage (VAC)		Release Voltage (VAC)		Max. Voltage (VAC)	Coil Resistance ±10%(Ω)	Coil Power
		50Hz	50Hz	50Hz	60Hz			
120A2	120	≤88	≤96	≥22	≥24	132	950	about 4VA
208A2	208	≤160	≤166.4	≥40	≥41.6	229	2841	
240A2	240	≤176	≤176	≥44	≥48	264	3800	
277A2	277	≤200	≤200	≥50	≥55.4	305	5485	

Note: (1) The above values are initial values;
 (2) The maximum voltage refers to the maximum voltage that the relay coil can withstand in a short period of time.

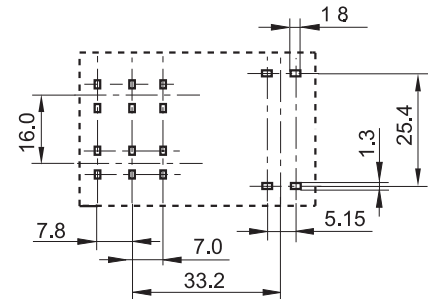
Product Data Sheet

Wiring Diagram:

Wiring Diagram
(Bottom View)

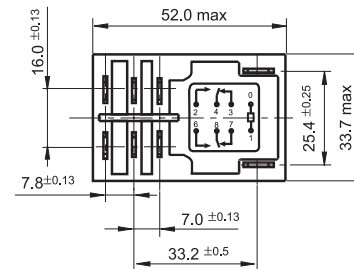
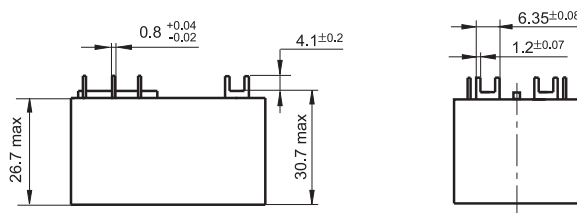


Mounting hole sizes
(bottom view)

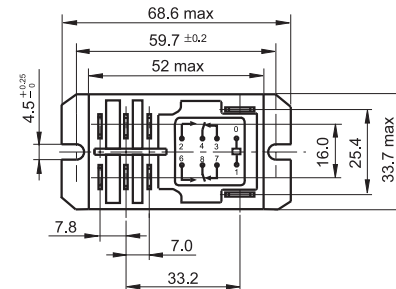
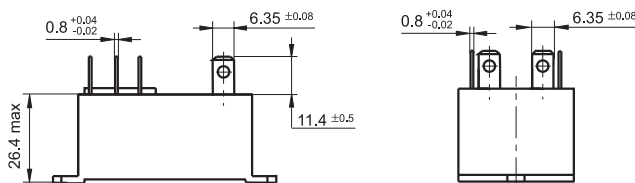


Dimensions (mm):

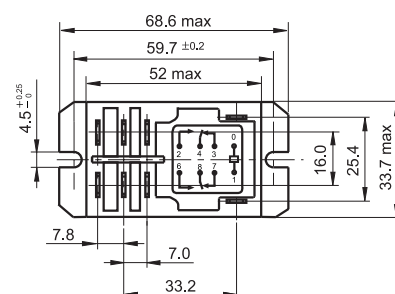
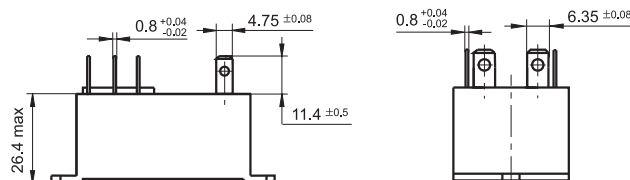
Blank - Standard type (PCB pinout)



Q1 type - flange shell Q1 type (QC pins)



Q2 type - flange shell Q2 type (QC pins)



Notes:

- The pin size of the product outline drawing is the size before tinning (it will become larger after tinning), and the mounting hole size is the recommended design size of the PCB board hole. The specific PCB board hole design size can be determined according to the product.
- Mapping and adjustment of the actual product;
The external dimension of the product is not marked with dimensional tolerance. When the external dimension is $\leq 1\text{mm}$, the tolerance is $\pm 0.2\text{mm}$; when the external dimension is between $(1 \sim 5)\text{mm}$, the tolerance is $\pm 0.3\text{mm}$; when the external dimension is between $(1 \sim 5)\text{mm}$, the tolerance is $\pm 0.3\text{mm}$; Size $> 5\text{mm}$, tolerance is $\pm 0.4\text{mm}$;
- The dimensional tolerance not noted in the mounting hole dimensions is $\pm 0.1\text{mm}$.