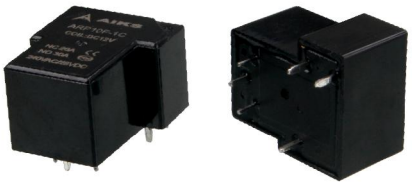
ARP10F

Features

- Max 40A switching capability
- Unenclosed and sealed protected types available
- 4KV dielectric strength(between coil and contacts)
- PCB coil terminals,ideal for heavy duty load



▶ CONTACT DATA

Contact arrangement	1A	1B	1C
Contact Resistance	100mΩ (1A 24 VDC)		
Contact material	$AgSnO_2$,AgCdO		
Contact rating(Res.load)	30A 240VAC 20A 28VDC	20A 240VAC 15A 28VDC	NO 30A 240VAC/ 28VDC NC 20A 240VAC/ 28VDC
Max.switching power	7200VA 560W	4800VA 420W	NO 7200VA/840W NC 4800VA/560W
Max.switching voltage	277VAC/28VDC		
Max.switching current	40A	20A	30A
Mechanical endurance	1×10^7OPS		
Electrical endurance	1×10^5OPS		

▶ CHARACTERISTICS

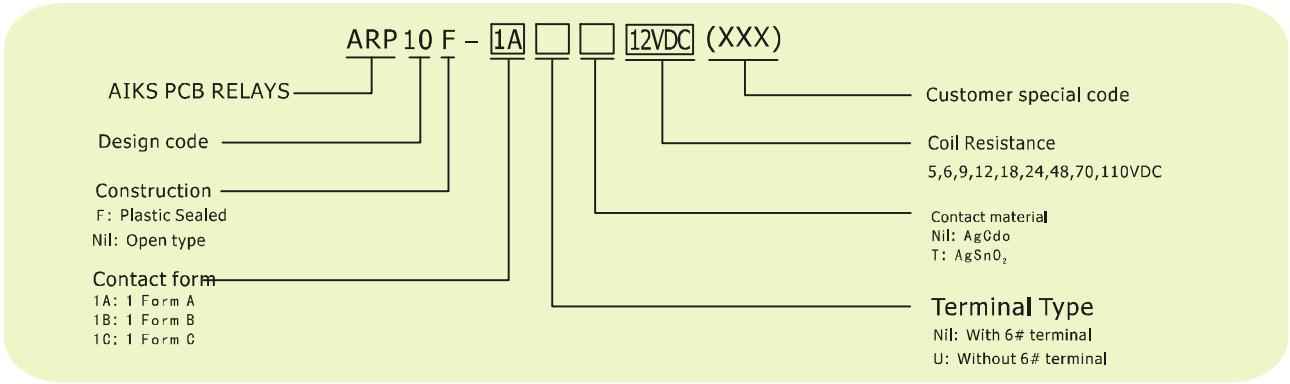
Insulation resistance		100MΩ(at 500VDC)
Dielectric strenght	Between coil & contacts	2500VAC 1 min
	Between open contacts	2000VAC 1min
Operate time(at nomi.volt)		15ms max.
Release time(at nomi.volt)		10ms max.
Shock resistance	Functional	98m/s²
	Destructive	980m/s²
Vibration resistance		10Hz ~ 55Hz 1.5mm DA
Humidity		98% RH,40℃
Ambient temperature		-55℃ ~ 85℃
Termination		PCB
Unit weight		Approx.35g
Construction		Plastic Sealed、Dust protected

▶ COIL DATA

Coil power	Approx. 900mW

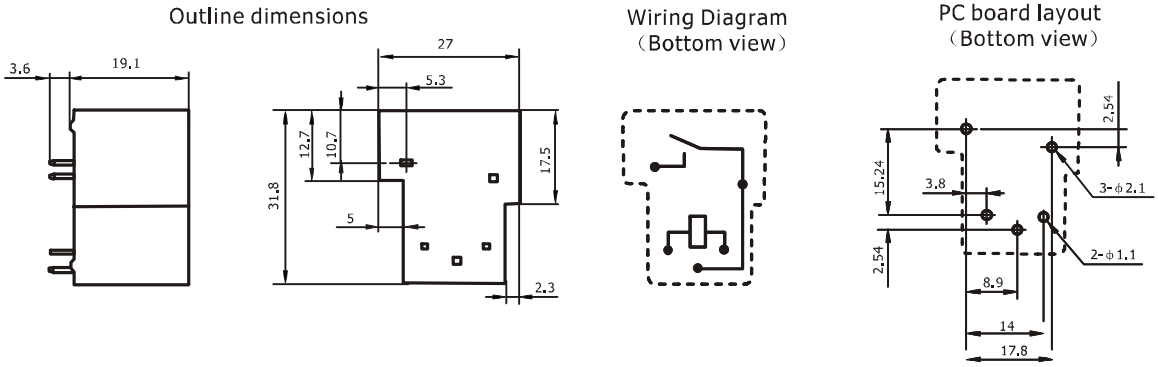
Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max.Allowable Voltage VDC at 85℃	Coil Resistance Ω
5	3.75	0.5	6.5	27×(1±10%)
6	4.50	0.6	7.8	40×(1±10%)
9	6.75	0.9	11.7	97×(1±10%)
12	9.00	1.2	15.6	155×(1±10%)
15	11.25	1.5	19.5	256×(1±10%)
18	13.50	1.8	23.4	380×(1±10%)
24	18.00	2.4	31.2	660×(1±10%)
48	36.00	4.8	62.4	2560×(1±10%)
70	52.50	7.0	91.0	5500×(1±10%)
110	82.50	11.0	143.0	13450×(1±10%)

▶ MODEL DESCRIPTION



▶ OUTLINE DIMENSIONS,WIRING DIAGRAM AND PC BOARD LAYOUT Unit: mm

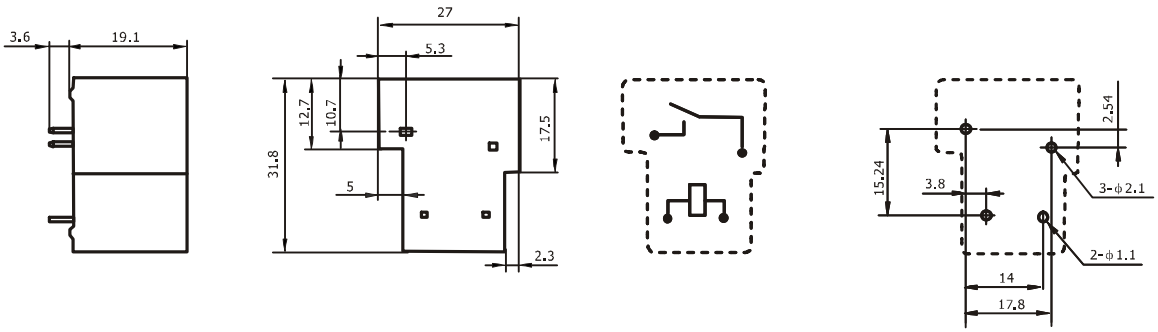
ARP10F-1A□ □ (With 6# terminal)



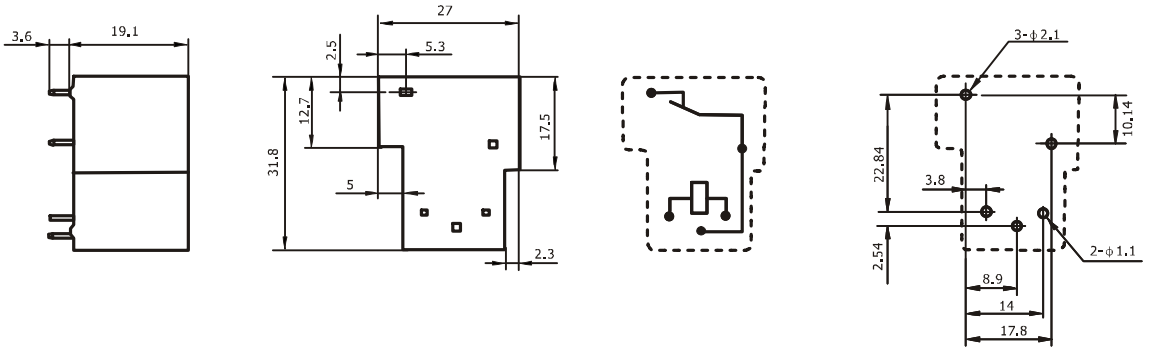
▶ OUTLINE DIMENSIONS,WIRING DIAGRAM AND PC BOARD LAYOUT Unit: mm

Outline dimensions | Wiring Diagram (Bottom view) | PC board layout (Bottom view)

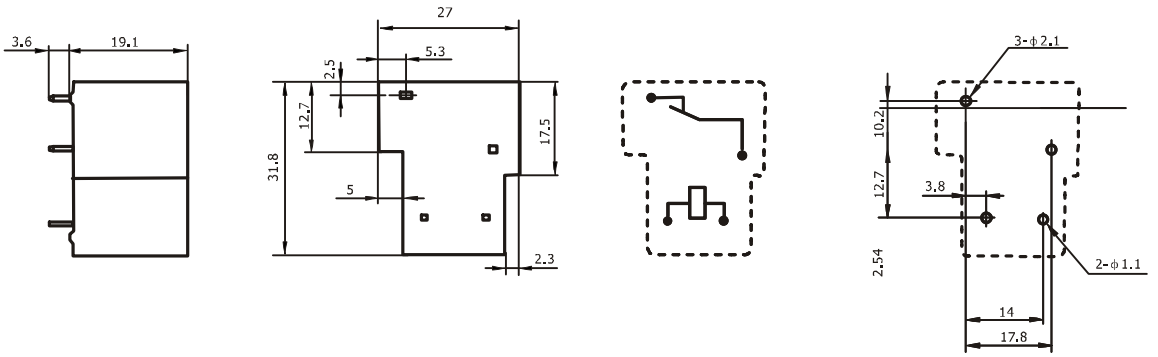
ARP10F-1AU□ □ (Without 6# terminal)



ARP10F-1B□ □ (With 6# terminal)



ARP10F-1BU□ □ (Without 6# terminal)



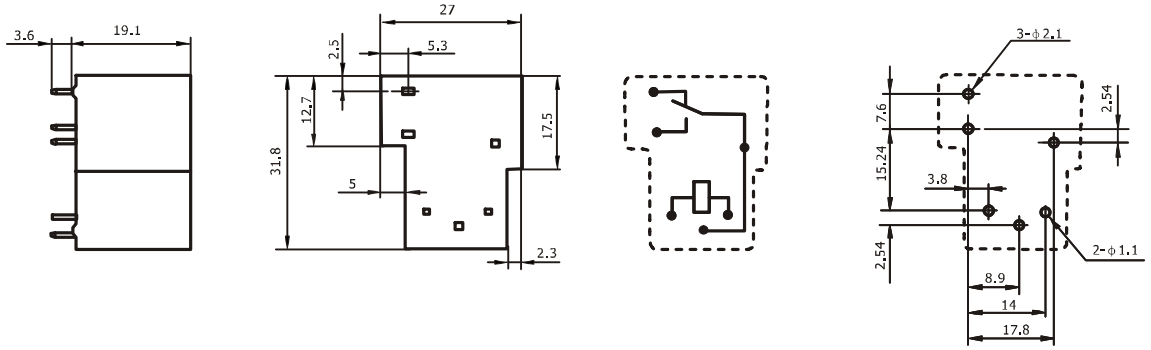
Remark: 1) In case of no tolerance shown in outline dimension: outline dimension ⩽ 1mm, tolerance should be ± 0.2mm; outline dimension > 1mm and ⩽ 5mm, tolerance should be ± 0.3mm; outline dinension > 5mm, tolerance should be ± 0.4mm

2) The tolerance without indicating for PCB layout is always± 0.1mm.。

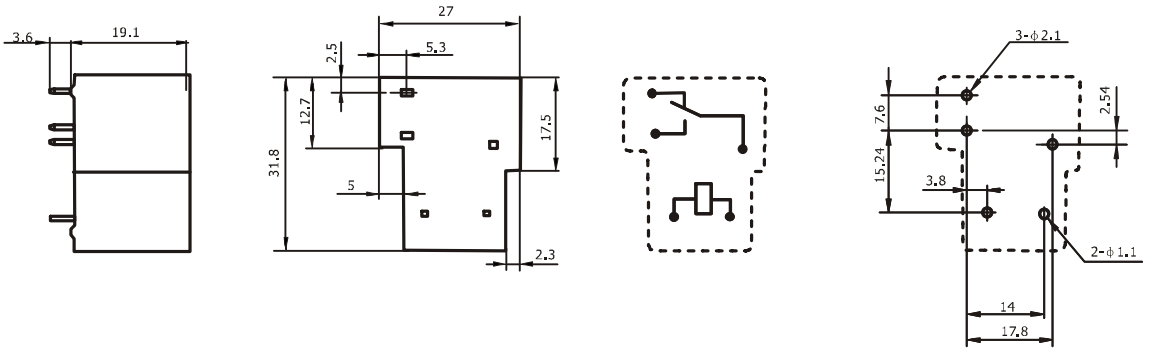
▶ OUTLINE DIMENSIONS,WIRING DIAGRAM AND PC BOARD LAYOUT Unit: mm

Outline dimensions | Wiring Diagram (Bottom view) | PC board layout (Bottom view)

ARP10F-1C□ □ (With 6# terminal)



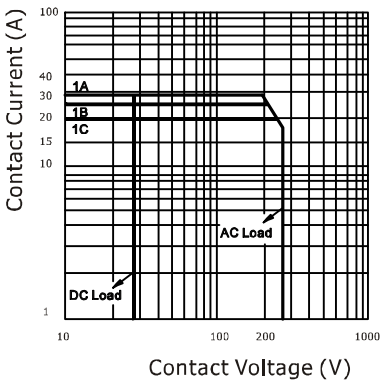
ARP10F-1CU□ □ (Without 6# terminal)



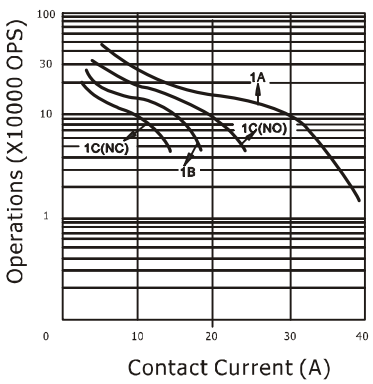
Remark: 1) In case of no tolerance shown in outline dimension: outline dimension ≤ 1mm, tolerance should be ± 0.2mm; outline dimension > 1mm and ≤ 5mm, tolerance should be ± 0.3mm; outline dinension > 5mm, tolerance should be ± 0.4mm
2) The tolerance without indicating for PCB layout is always± 0.1mm.。

▶ Characteridtic curves

MAXIMUM SWITCHING POWER



ENDURANCE CURVE



COLL TEMPERATURE RISE