HFE17 HIGH POWER LATCHING RELAY

Features

- Latching relay
- 200A switching capability
- Accord with ANSI C 12.1
  (Carrying:10kA; Suitching: 7kA peak,
  12kA RMS short circuit current)
- Switching power up to 55.4kVA
- 4kV dielectric strength (between coil and contacts)
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (97.6 x 73.2 x 29.5) mm

CONTACT DATA

Contact arrangement	2A
Contact resistence	2mΩ (at 1A 24VDC)
Contact material	$AgSnO_2$, $AgSnO_2In_2O_3$
Contact rating (Res. load)	200A 277VAC/28VDC
Max. switching voltage	440VAC
Max. switching current	200A
Max. switching power	55400VA / 5600W
Mechanical endurance	1×10^5OPS
Electrical endurance	1×10^4OPS

CHARACTERISTICS

Insulation resistance		1000MΩ (at 500VDC)
Dielectric strength	Between coil & contacts	4000VAC 1min
	Between open contacts	2000VAC 1min
Creepage distance		9.6mm
Operate time (at nomi. volt.)		20ms max.
Release time (at nomi. volt.)		20ms max.
Shock resistance	Functional	98m/s²
	Destructive	980m/s²
Vibration resistance		10Hz to 55Hz 1.5mm DA
Humidity		98% RH, 40°C
Ambient temperature		-40°C to 85°C
Termination		PCB & QC
Unit weight		500g
Construction		Dust protected

Notes: The data shown above are initial values.

COIL

Coil power	Single Coil: 12W; Double Coil: 24W

COIL DATA

Nominal Voltage VDC	Pick-up Voltage VDC	Pulse Duration ms	Coil Resistance Ω	
12	9.6	200	Singl Coil	12 x (1±10%)
24	19.2	200		48 x (1±10%)
48	38.4	200		190 x (1±10%)
12	9.6	200	Double Coil	(6+6) x (1±10%)
24	19.2	200		(24+24) x (1±10%)
48	38.4	200		(95+95) x (1±10%)

Notes: When requiring other nominal voltage, special order allowed.

NOTICE

1. Relay is on the “set” status when being released from stock, with the consideration of shock risen from transit and relay mounting, relay would be changed to “reset” status, therefore, when application (connecting the power supply), please reset the relay to “set” or “reset” status on request.

2. In order to maintain “set” or “reset” status, energized voltage to coil should reach the rated voltage, impulse width should be 5 times more than “set” or “reset” time. Do not energize voltage to “set” coil and “reset” coil simultaneously. And also long energized time (more than 1 min) should be avoided.

3. The terminals of relay without twisted copper wire can not be tin-soldered, can not be moved willfully, more over two terminals can not be fixed at the same time.

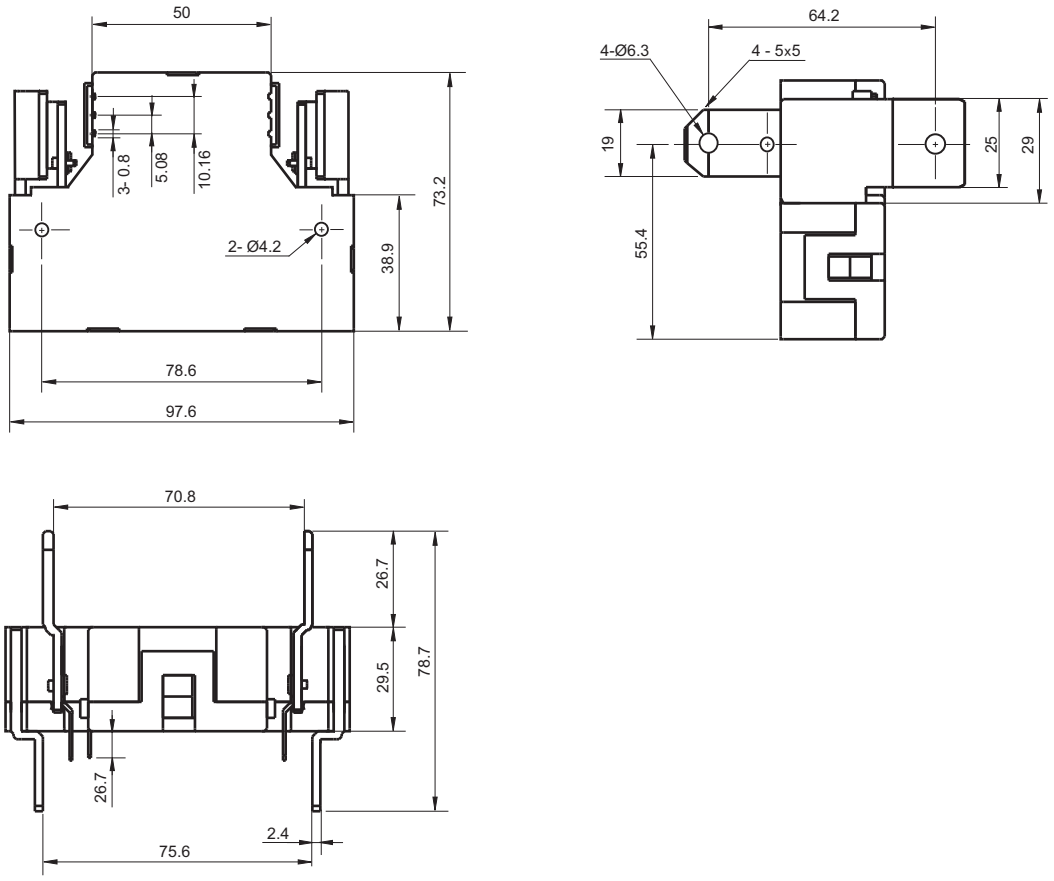
ORDERING INFORMATION

	HFE17	-A /	12	-2H	T	2	R	(XXX)
Type								
Version	**A:** Type A contact terminal							
Coil voltage	12, 24, 48VDC							
Contact form	**2A:** 2 Form A							
Contact material	**T:** $AgSnO_2$		**5:** $AgSnO_2In_2O_3$					
Coil Sort	**1:** Single coil latching		**2:** 2 coils latching					
Polarity	**R:** Negative polarity		**Nil:** Positive polarity					
Customer special code								

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

Outline Dimensions



Remark: 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 dimension >5mm, tolerance should be ±0.4mm.

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

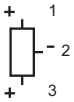
Unit: mm

Coil Wring Diagram

1 coil latching

1(+) 3(-) reset
3(+) 1(-) set

2 coil latching



1(+) 2(-) reset
3(+) 2(-) set

Remark: The coil polarity of Reverse polarity and Standard polarity is opposite.