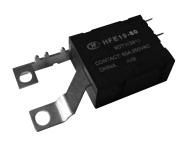
HFE19-80(391) MINIATURE HIGH POWER LATCHING RELAY



Features

- 80A switching capability
- Latching relay
- The relay can stand 2200A peak current for 10ms
- Intergarated one-piece installation solution, facilitate your installation requirement.
- 4kV dielectric strength (between coil and contact)
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (38.0 x 30.9 x 16.5) mm

CONTACT DATA	
Contact arrangement	1A, 1B
Contact resistence	Typ.:0.45mΩ max.(at 80A) ⁽¹⁾
Contact material	AgSnO ₂
Contact rating (Res. load)	80A 250VAC
Max. switching voltage	250VAC
Max. switching current	80A
Max. switching power	20000VA
Mechanical endurance	1 x 10⁵ops
Electrical endurance	5000ops

Notes: (1) Typical value: Sampling quantity for contact resistance shall not less than 20 pcs, take the average value from 5 continous measurements for each sample.

CHARACTERISTICS				
Insulation resistance		се	1000MΩ (at 500VDC)	
strength	Between coil & contacts		4000VAC 1min	
	Between open contacts		1500VAC 1min	
Creepage distance		e	8mm	
Operate time (at nomi. volt.)		omi. volt.)	20ms max.	
Release time (at nomi. volt.)		omi. volt.)	20ms max.	
Shock resistance		Functional	98m/s²	
		Destructive	980m/s²	
Vibration resistance		e	10Hz to 55Hz 1.5mm DA	
Humidity			5% to 85% RH	
Ambient temperature		ure	-40°C to 70°C	
Temperature rise			55K max.	
Termination			PCB	
Unit weight			Approx. 50g	
Construction			Dust protected	

COIL	
Coil power	Single coil latching: Approx. 1.0W
	Double coils latching: Approx. 2.0W

COIL DATA at 23°C

Single coil latching

Nominal Voltage VDC	Set / Reset Voltage VDC max.	Pulse Duration ms min.	Coil Resistance x (1±10%) Ω
5	4	100	25
6	4.8	100	36
9	7.2	100	80
12	9.6	100	145
24	19.2	100	575
48	38.4	100	2270

Double coils latching

Nominal Voltage VDC	Set / Reset Voltage VDC max.	Pulse Duration ms min.	Coil Resistance x (1±10%) Ω
5	4	100	12.5+12.5
6	4.8	100	18+18
9	7.2	100	40+40
12	9.6	100	72+72
24	19.2	100	285+285
48	38.4	100	1152+1152

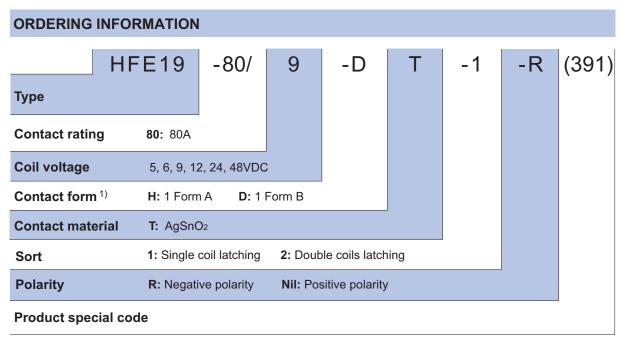
 $\textbf{Notes:} \ \ \textbf{When requiring other nominal voltage, special order allowed.}$



HONGFA RELAY

Notes: The data shown above are initial values.

ISO9001, ISO/TS16949, ISO14001, OHSAS18001, IECQ QC 080000 CERTIFIED

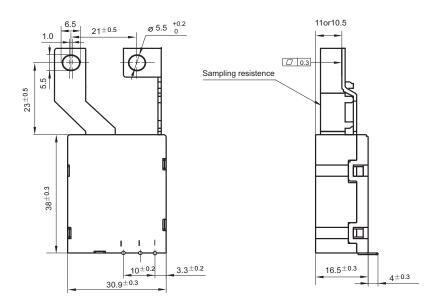


Notes: 1) H means that relay is on the "reset" status when delivery; D means that relay is on the "set" status when delivery. If no speical required by customer,we will keep the relay on the "set" status when delivery.

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

Outline Dimensions



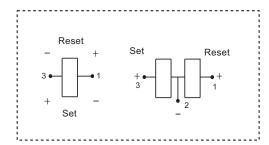
Remark: 1) During the installation, please pre-fix the screws onto the two install holes then fasten the screws to protect relays working reliablity from stress force during the installation.

- 2) 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.

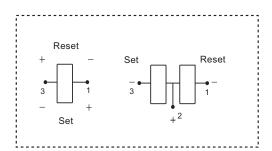
 3) The tolerance without indicating for PCB layout is always ±0.1mm.

Wiring Diagram

Positive polarity



Negative polarity



Notice

- 1. Relay is on the "reset" or "set" status when being released from stock, with the consideration of shock risen from transit and relay mounting, relay would be changed to "set" or "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 load's output terminals of the latching relay can not be tin-soldered nor be wrenched;
- 4. Please control the distance difference between the working areas of the meter connection terminals can not exceed 0.5mm;
- 5. Relays used for metering measuring applications are usually made with dust proof structure, while most relays could be made specially per customer's specific requirements. No longer than 6 months' storage time is recommended for this kind of relay, and please pay attention to the storage environment. To ensure contact reliability, we will keep contact status be closed when delivery if no special required by customer.

Disclaimer

This datasheet is for the customers' reference. All the specifications are subject to change without notice.

We could not evaluate all the performance and all the parameters for every possible application. Thus the user should be in a right position to choose the suitable product for their own application. If there is any query, please contact Hongfa for the technical service. However, it is the user's responsibility to determine which product should be used only.

© Xiamen Hongfa Electroacoustic Co., Ltd. All rights of Hongfa are reserved.