| The type: | 1Z type: | 2A 30VDC 40 °C | 1A 30VDC 70 °C | 1A 125VAC 40 °C | 1A 30VDC 70 °C | 1A 30VDC 90 °C

Notes: 1) All values unspecified are at room temperature

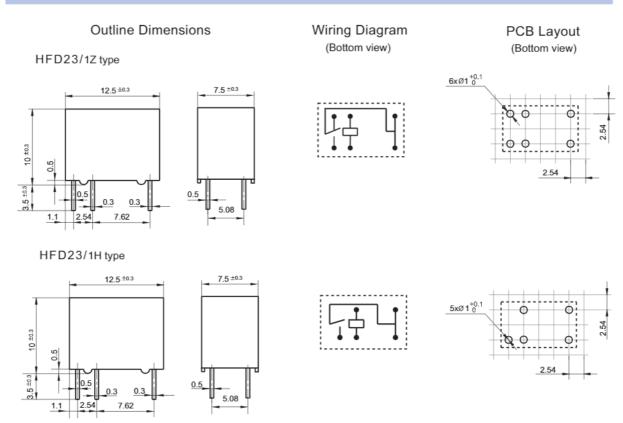
2) Only typical loads are listed above. Other load specifications can be available upon request.

ORDERING INFORMATION 012 HFD23 **-1**Z (XXX) S Type Coil voltage 1.5, 2.4, 3, 4.5, 5, 6, 9, 12, 24VDC Contact arrangement 1H: 1 Form A 1Z: 1 Form C Coil power S: Sensitive type P: Standard type Special code²⁾ XXX: Customer special requirement Nil: Standard 866: High temperature type

Notes: 1) Contact is recommended for suitable condition and specifications if water cleaning or surface process is involved in assembling relays on PCB.

- 2) The customer special requirement express as special code after evaluating by Hongfa.
- 3) The high temperature type indicates the maximum ambient temperature 90°C and the high temperature type is 866. It is only suitable for sensitive specifications.
- 4)Standard tube packing length is 265mm. Any special requirement needed, please contact us for more details.
- 5) For products that should meet the explosion-proof requirements of "IEC 60079 series", please note [Ex] after the specification while placing orders. Not all products have explosion-proof certification, so please contact us if necessary, in order to select the suitable products.

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

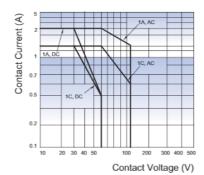


Remark: 1) In case of no tolerance shown in outline dimension: outline dimension ≤1mm, tolerance should be ±0.2mm; outline dimension >1mm and ≤5mm, tolerance should be ±0.3mm; outline dimension >5mm, tolerance should be ±0.4mm.

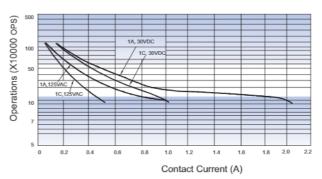
- 2) The tolerance without indicating for PCB layout is always ±0.1mm.
- 3) The width of the gridding is 2.54mm.

CHARACTERISTIC CURVES

MAXIMUM SWITCHING POWER



ENDURANCE CURVE



Test conditions:

Resistive load, Room temp., 1s on 9s off.

Notice

- 1) To avoid using relays under strong magnetic field which will change the parameters of relays such as pick-up voltage and drop-out voltage.
- 2) Energizing coil with rated voltage is basic for normal operation of a relay, please make sure the energized voltage to relay coil have reached the rated voltage. Regarding latching relay, in order to maintain the "set" or "reset" status, impulse width of the rated voltage applied to coil should be more than 5 times of "set" or "reset" time.
- 3) For a monosteady state relay, after the relay is reliably operated, if it needs to be kept under pressure, make sure that the effective value of the voltage is not less than 60 % of the rated voltage:
- 4) The relay may be damaged because of falling or when shocking conditions exceed the requirement.
- 5) Please use wave soldering or manual soldering for straight-in relay. If you need reflow welding, please confirm the feasibility with us.
- 6)Contact is recommended for suitable condition and specifications if water cleaning or surface process is involved in assembling relays on PCB.
- 7)Regarding the plastic sealed relay, we should leave it cooling naturally untill below 40°C after welding, then clean it and deal with coating, remarkably the temperature of solvents should also be controlled below 40°C. Please avoid cleaning the relay by ultrasonic, avoid using the solvents like gasoline, Freon, and so on, which would affect the configuration of relay or influence the environment.
- 8) When applied with continuous current, the heat from relay coil will age its isolation. Thus, please do not ground connected the coil to reduce electrical errosion if possible. And please provide protection circuit to avoid broken wire and losses.
- 9)Please make sure that there are no silicon-based substances (such as silicon rubber, silicone oil, silicon-based coating agents, silicon fillers, etc.) around the relay, because it will generate silicon-containing volatile gas, which may cause poor contact in case of silicon-containing volatile gas sticking on contact
- 10) About preferable condition of operation, storage and transportation, please refer to "Explanation to terminology and guidetines of relay".

Disclaimer

The specification is for reference only. See to "Terminology and Guidelines" for more information. Specifications 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.

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