

COIL DATA

at 23°C

AC type (at 50Hz/60Hz)

Coil Code	Nominal Voltage VAC	Pick-up Voltage VAC max. ¹⁾		Drop-out Voltage VAC min. ¹⁾		Max. Voltage VDC ²⁾	Coil Resistance Ω
		50Hz	60Hz	50Hz	60Hz		
120A	120	88	96	22	24	132	950 x (1±10%)
208A	208	160	166.4	40	41.6	229	2841 x (1±10%)
240A	240	176	192	44	48	264	3800 x (1±10%)
277A	277	200	221.6	50	55.4	305	5485 x (1±10%)

Notes: 1) The data shown above are initial values.

2) * Maximum voltage refers to the maximum voltage which relay coil could endure in a short period of time.

SAFETY APPROVAL RATINGS

UL/CUL ¹⁾	NO	30A 277VAC 1HP 120VAC 2.5HP 240VAC 110 LRA/25.3 FLA 240VAC (DC type)
	NC	3A 277VAC
VDE ¹⁾ (AgSnO ₂)	NO	30A 250VAC 20A 250VAC
	NC	3A 250VAC

Notes: 1) UL certified loads are tested at 40°C. VDE certified loads are tested at 85°C (DC products) or 50°C (AC products).

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

ORDERING INFORMATION

Type	HF92F	-012D	-2C	2	2	F	(XXX)
Coil Code	XXX D: DC type(5,6,12,24,48,110VDC) XXX A5: AC type 50Hz(24,120,208,220,240,277VAC) XXX A6: AC type 60Hz(24,120,208,220,240,277VAC) XXX A: AC type 50Hz/60Hz(120,208,240,277VAC)						
Contact arrangement	2A: 2 Form A 2C: 2 Form C						
Termination ¹⁾	1: PCB 2, 3: QC						
Contact material	1: AgSnO ₂ 2: AgCdO						
Construction ²⁾	S: Plastic sealed F: Flux proofed						
Special code ³⁾	XXX: Customer special requirement Nil: Standard						

Notes: 1) For QC terminals, no soldering or washing is allowed. For PCB terminals, please refer to us for soldering condition and part specification for necessary washing or surface processing after it is soldered to PCB.

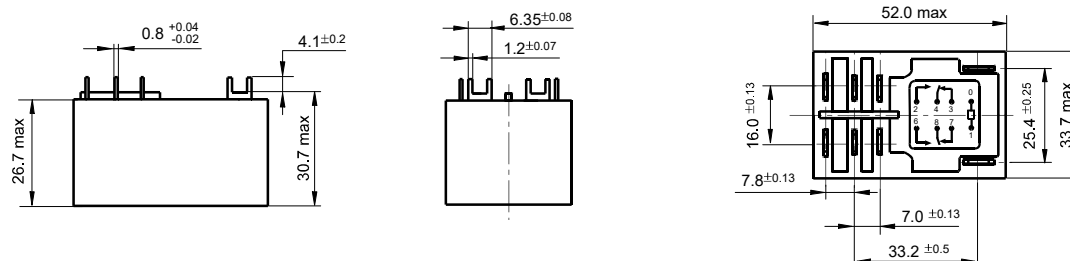
2) We recommend dust protected types for a clean environment (free from contaminations like H₂S, SO₂, NO₂, dust, etc.).

We suggest to choose plastic sealed types and validate it in real application for an unclean environment (with contaminations like H₂S, SO₂, NO₂, dust, etc.).

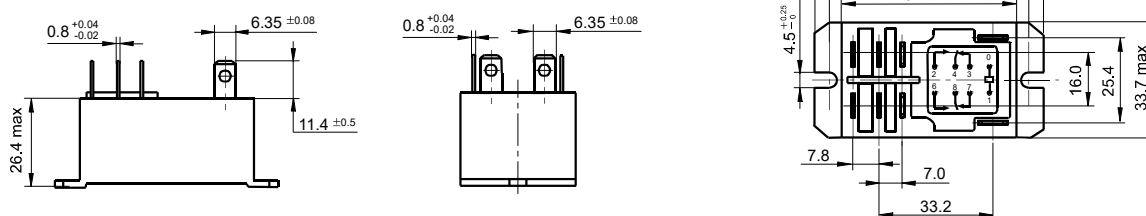
3) The customer special requirement express as special code after evaluating by Hongfa.

Outline Dimensions

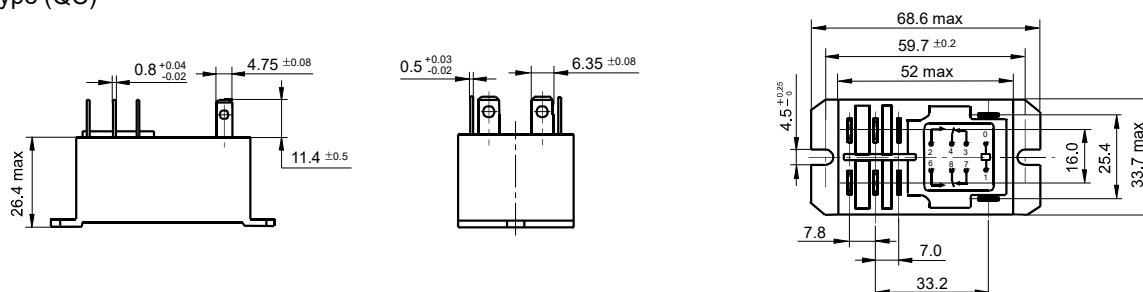
1 Type (PCB)



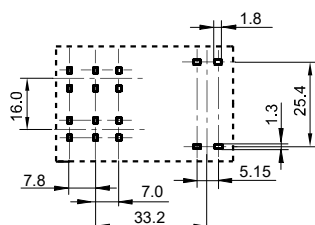
2 Type (QC)



3 Type (QC)

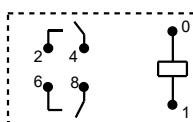


PCB Layout (Bottom view)

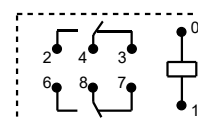


Wiring Diagram (Bottom view)

2 Form A

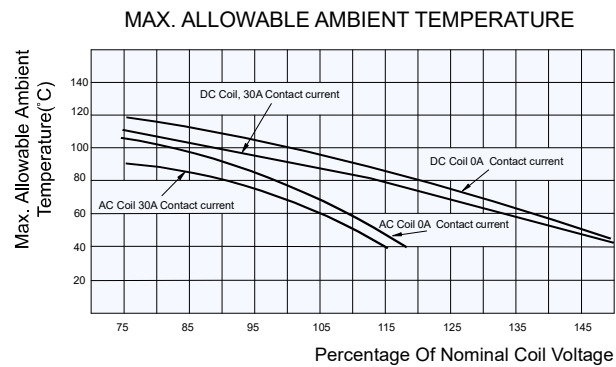


2 Form C



- Remark: 1) In case of no tolerance shown in outline dimension: outline dimension $\leq 1\text{mm}$, tolerance should be $\pm 0.2\text{mm}$; outline dimension $> 1\text{mm}$ and $\leq 5\text{mm}$, tolerance should be $\pm 0.3\text{mm}$; outline dimension $> 5\text{mm}$, tolerance should be $\pm 0.4\text{mm}$.
2) The tolerance without indicating for PCB layout is always $\pm 0.1\text{mm}$.

CHARACTERISTIC CURVES



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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