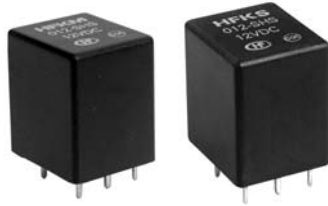


# HFKM/HFKS

# AUTOMOTIVE RELAY



### Features

- Switching capacity up to 20A
- Six different contact arrangements
- PCB mounting
- Open and sealed types are available
- Two terminals size for HFKM & HFKS

### Typical Applications

Lamp control circuits, Indicator control circuits, Window motors management  
Sunroof motors, Immobilizers, Central door lock, Low temperature start

### CONTACT DATA

Arrangement	1A	1B	1C		1U	1V	1W	
			NO	NC			NO	NC
Max. <sup>(1)</sup> Make Current	60A	12A	60A	12A	2X40A	2X8A	2X30A	2X5A
Max. switching current	20A	10A	20A	10A	2X20A	2X7A	2X15A	2X5A
Max. switching voltage	75VDC							
Continuous Current	15A	10A	15A	10A	2X10A	2X7A	2X7A	2X5A
Max. switching power	200W							
Min. Load	0.5A 6VDC							
Contact Material	AgSnO <sub>2</sub> , AgNi							
Initial Resistance	100mΩ (1A 6VDC)							
Mechanical life	1 x 10 <sup>7</sup> OPS							
Electrical life	2x 10 <sup>5</sup> OPS							

Note(1): Inrush current for lamp load

### CHARACTERISTICS

Initial Insulation Resistance	100MΩ, 500VDC
Dielectric Strength	500VAC
Operate time (at nomi. Volt.)	Typ. 3ms
Release time (at nomi. Volt.)	Typ. 1.5ms
Vibration Resistance	DA: 1.5mm, 10 to 55Hz
Shock Resistance	10g, 11ms
Ambient temperature	-40°C to +85°C
Unit weight	Open:8g, Sealed IP67:12g

### COIL

Coil power	1.1W
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### COIL DATA

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. allowable Voltage * (at 20°C)VDC	Coil Resistance Ω
	A,B,C,U,V	B, V		
6	3.75	0.35	9.0	28 ± 10%
12	7.5	0.7	19.6	130 ± 10%
24	15	1.4	39.3	520 ± 10%

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. allowable Voltage * (at 20°C)VDC	Coil Resistance Ω
	W	A,C,U,W		
6	4.5	0.7	9.0	28 ± 10%
12	9.0	1.4	19.6	130 ± 10%
24	18	2.8	39.3	520 ± 10%

Note (1): \* Max allowable coil voltage is stated at ambient temperature with 10A load on the relay contacts.



HONGFA RELAY  
ISO9001、ISO/TS16949、ISO14001 CERTIFIED

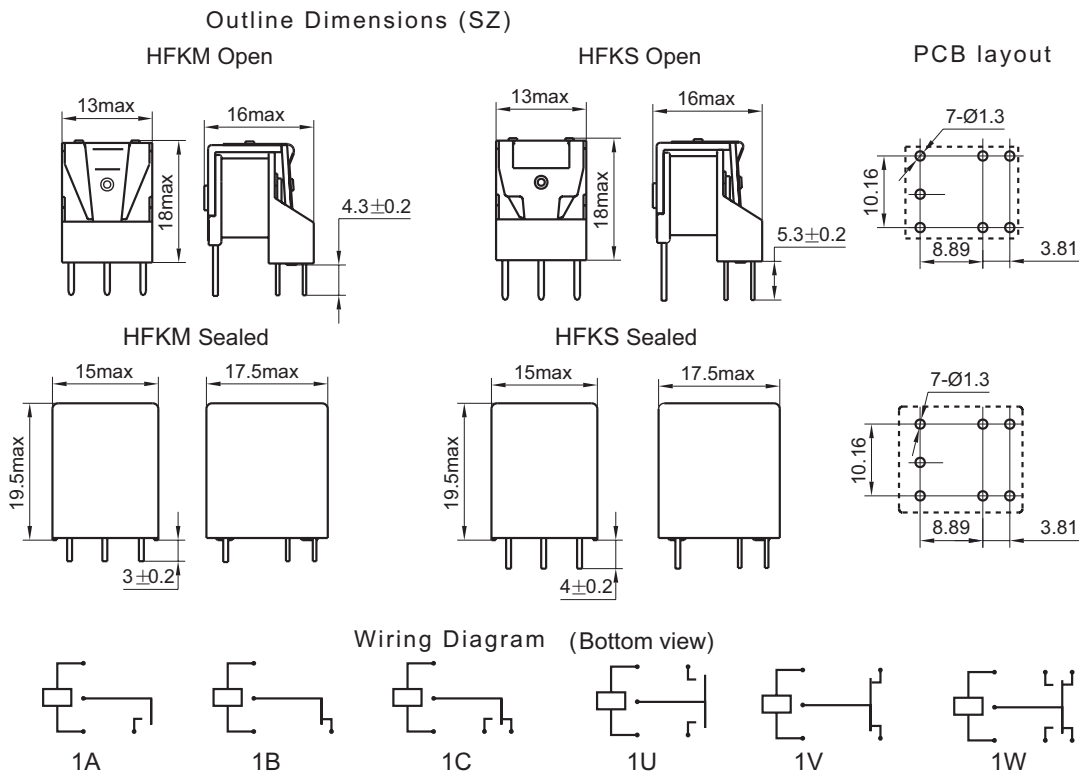
VERSION: EN02-20040601

## ORDERING INFORMATION

Type	HFKM / HFKS /	012	1H	S	T	XXX
Coil voltage	6, 12, 24VDC					
Contact arrangement	1H: 1 Form A    1D: 1 Form B    1Z: 1 Form C SH: 1 Form U    SD: 1 Form V    SZ: 1 Form W					
Structure	S: Sealed IP67    Nil: Open					
Contact Material	T: AgSnO <sub>2</sub> Nil: AgNi					

Customer special request code:

## OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT



## CHARACTERISTICS CURVE

