

# HFV7

# AUTOMOTIVE RELAY



### Typical Applications

Rear window defogger, Battery disconnection, Air-conditioning, ABS, Starter generator, Fog lamp & headlight control, Power distribution, Fuel pump control, Traction control system, Cooling fan (multi-speed)

### Features

- 70A switching capability
- Ambient temp. up to 125°C
- SPST contact
- Sealed IP67 and covered structure
- With transient suppression resistor

### CONTACT DATA

Contact Arrangement	1 A
Max. switching current	70A
Max. switching voltage	50VDC
Max. continuous current	70A(23°C) 50A(125°C)
Contact Rating (Res.load)	70A 14VDC
Max. switching power	980W
Contact Material	AgNi, AgSnO <sub>2</sub>
Initial contact resistance	50mΩ (1A 24VDC)
Electrical life	1 x 10 <sup>5</sup> ops(70A 14VDC, 23°C)
Mechanical life	1x 10 <sup>7</sup> ops

### COIL

Coil power	1.6 W, 2.2W
Coil Voltage	6VDC, 12VDC, 24VDC

### COIL DATA

#### Standard

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Coil Resistance Ω	Max. coil Voltage VDC 85°C	Parallel Resistor Ω
6	3.2	0.6	22.5	9	180
12	7.2	1.2	90	18	680
24	14.4	2.4	360	34	2700

### CHARACTERISTICS

Insulation resistance	100MΩ
Dielectric Strength	500VAC 1 min
Operate time	Max. 10ms
Release time	Max. 7ms
Vibration Resistance	10-500Hz 180m/s <sup>2</sup> (18g)
Shock resistance	300 m/s <sup>2</sup> (30g)
Ambient temp.	-40°C to +125°C
Weight	Approx.40g
Termination	Plug-in
Construction	Sealed IP67& Dust cover

#### High Power Consumption

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Coil Resistance Ω	Max. coil Voltage VDC 85°C	Parallel Resistor Ω
6	3.2	0.6	18	7.0	180
12	7.2	1.2	72	14	680
24	14.4	2.4	288	28	2700



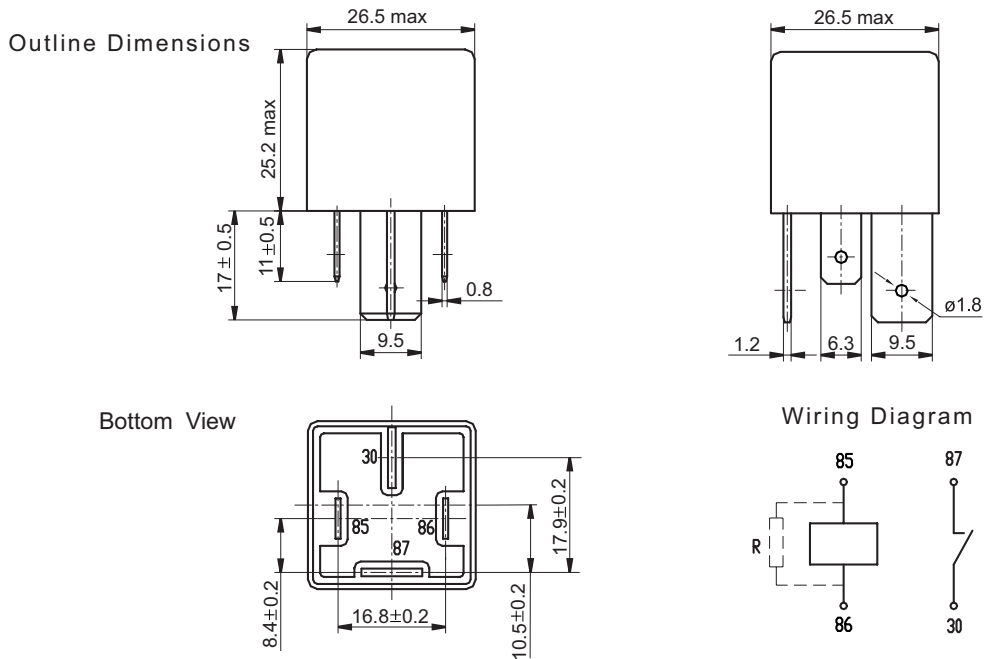
HONGFA RELAY  
ISO9001、ISO/TS16949、ISO14001 CERTIFIED

VERSION: EN02-20040601

## ORDERING INFORMATION

Type	HFV7 /	012	H	S	P	T	R	XXX
Coil voltage	6,12, 24VDC							
Contact arrangement	H:1 Form A							
Structure	S: Sealed IP67	Nil: Dust cover						
Coil power	Nil: Standard	P: High power consumption						
Contact Material	T: AgSnO <sub>2</sub>	3: AgNi						
Transient Suppression Resistor	R: With resistor	Nil: Without resistor						
Customer special request code								

## OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT



## CHARACTERISTICS CURVE

