HF3503 DELAYING RELAY

Features

- Solid base design, stable structure
- Use MCU control circuit to ensure stable performance and high precision
- Surface mounting technology, advanced craftwork
- Ingress protection: IP52

Typical Applications

Heating control、Start control、Fan Control

ELECTRICAL PARAMETER

Type	Nominal Voltage VDC	Operating Voltage VDC	Delay Time s	Rated Load A	Electrical endurance OPS	Voltage drop mV/5A max.
HF3503/12-G40A2	12	9 to16	2.0 ± 0.5	40	1 x10^5	150
HF3503/12-L15B9-B	12	9 to16	9.0 ± 2.0	15	1 x10^5	150
HF3503/12-G15B480	12	9 to16	480 ± 60	15	1 x10^5	150
HF3503/24-G20A5	24	18 to 32	5.0 ± 1.0	20	1 x10^5	150
HF3503/12-G15B600	12	9 to16	600 ± 60	15	1 x10^5	150
HF3503/24-G15A8-B	24	18 to 32	8.0 ± 1.5	15	1 x10^5	150
HF3503/12-G15A8-B	12	9 to16	8.0 ± 1.5	15	1 x10^5	150

When demand of time delay is different from above, please contact Hongfa for more technology support.

OTHER PARAMETERS

Ambient temperature		-40˚C to 85˚C
Vibration resistance	Sine	10Hz to 200Hz 49m/s^2
	Random	10Hz to 1000Hz 19.6m/s^2
Shock resistance		196m/s^2
Weight		Approx. 35g
Mechanical data		Cover retention:160N min.
		Terminal retention:100N min.

ORDERING INFORMATION

HF3503 / 12 -G 40 A 2 -B (XXX)

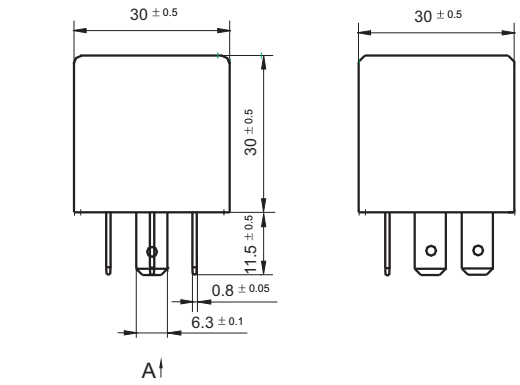
Type	Suffix (A-Z) is for specific extending application
Nominal voltage	**12**: 12VDC **24**: 24VDC
Trigger level	**G**: High electric level start up **L**: Low electric level start up
Electrical current specification	**15**: 15A **20**: 20A **40**: 40A
Delayed mode	**A**: On delay **B**: Off delay
Delayed time	**2**: 2s **10**: 10s
Packing style	**B**: With bracket **Nil**: Without bracket
Customer special code	

OUTLINE DIMENSIONS, WIRING DIAGRAM, LOGIC DIAGRAM

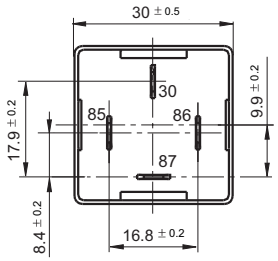
Unit: mm

Outline Dimensions

HF3503/□□-□□□□□(XXX)

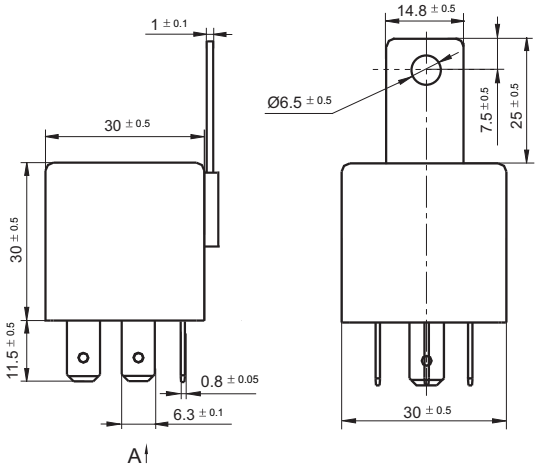


A direction

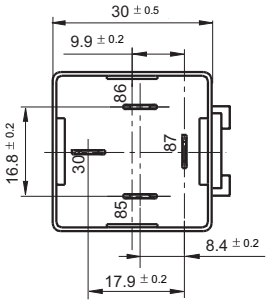


(Bottom view)

HF3503/□□-□□□□□-B(XXX)



A direction

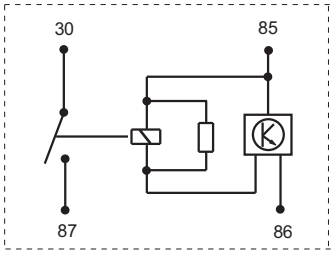


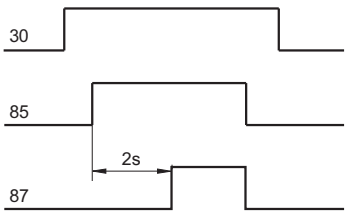
(Bottom view)

OUTLINE DIMENSIONS, WIRING DIAGRAM, LOGIC DIAGRAM

Unit: mm

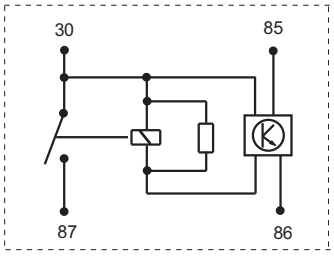
HF3503/12-G40A2(XXX)

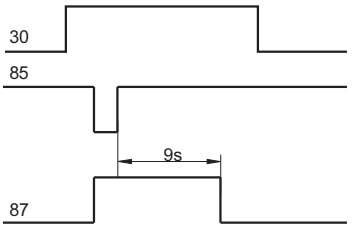




1) The terminal 30 is connected with positive electrode of power supply, terminal 87 is connected with load, the terminal 86 is connected with nature, the terminal 85 is connected with control signal. As shown in logic diagram, the terminal 30 and 87 will be connected when terminal 85 received a 12V start-up signal and delayed 2s±0.5s.

HF3503/12-L15B9-B(XXX)





1) The terminal 30 is connected with positive electrode of power supply, terminal 87 is connected with load, the terminal 86 is connected with nature, the terminal 85 is connected with control signal. As shown in logic diagram, the terminal 30 and 87 will be connected when terminal 85 received a low level start-up signal, the terminal 30 and 87 will be opened when 85 terminal start-up signal disappeared and delayed 9s±2s.

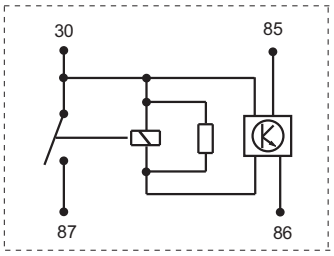
OUTLINE DIMENSIONS, WIRING DIAGRAM, LOGIC DIAGRAM

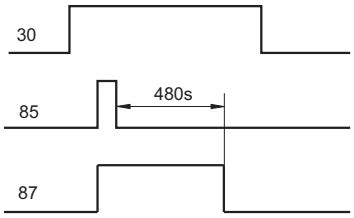
Unit: mm

Wiring Diagram

Logic Diagram

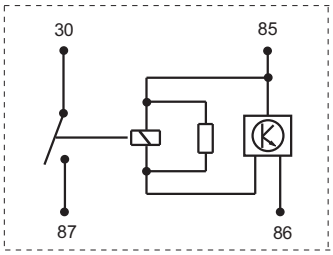
HF3503/12-G15B480(XXX)

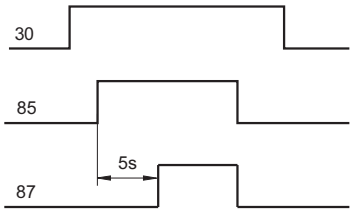




1) The terminal 30 is connected with positive electrode of power supply, terminal 87 is connected with load, the terminal 86 is connected with nature, the terminal 85 is connected with control signal. As shown in logic diagram, the terminal 87 and 30 will be connected when terminal 85 received a 12V start-up signal, the terminal 87 and 30 will be opened when terminal 85 start-up signal disappeared and delayed 480s±60s.

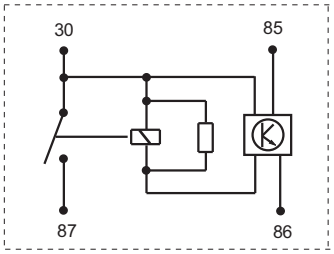
HF3503/24-G20A5(XXX)

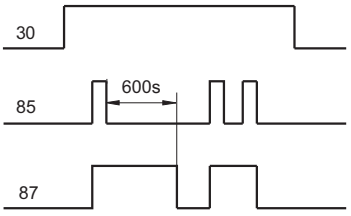




1) The terminal 30 is connected with positive electrode of power supply, terminal 87 is connected with load, the terminal 86 is connected with nature, the terminal 85 is connected with control signal. As shown in logic diagram, the terminal 30 and 87 will be connected when terminal 85 received a 24V start-up signal and delayed 5s±1s.

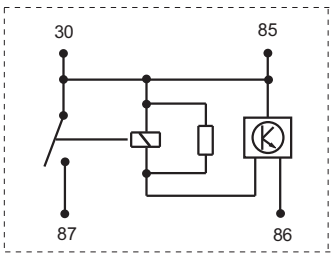
HF3503/12-G15B600(XXX)

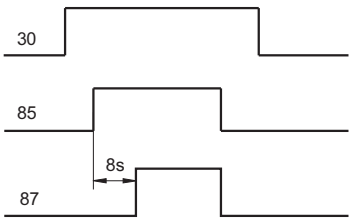




1) The terminal 30 is connected with positive electrode of power supply, terminal 87 is connected with load, the terminal 86 is connected with nature, the terminal 85 is connected with control signal. As shown in logic diagram, the terminal 87 and 30 will be connected when terminal 85 received a 12V start-up signal, the terminal 87 and 30 will be opened when terminal 85 start-up signal disappeared and delayed 600s±60s. During the delay period after connection, the terminal 87 and 30 will be opened when terminal 85 receive start-up signal.

HF3503/24-G15A8-B(XXX)
HF3503/12-G15A8-B(XXX)





1) The terminal 30 is connected with positive electrode of power supply, terminal 87 is connected with load, the terminal 86 is connected with nature, the terminal 85 is connected with control signal. As shown in logic diagram, the terminal 87 and 30 will be connected when terminal 85 received a start-up signal and delayed for 8s±1.5s.

Disclaimer

This datasheet is for the customers' reference. All the specifications are subject to change without notice.Before referring to this datasheet, please make sure that you have read and understood "Explanation to Terminology and Guidelines of Automotive Relay & Module" in our catalogue of Automotive Relay & Module.

In case there is specific criterion (such as mission profile, technical specification, PPAP etc.) checked and agreed by and between customer and Hongfa, this specific criterion should be taken as standard regarding any requirement on Hongfa product.

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.