HF3606 WIPER CONTROLLER



Features

- Wiper operation (HS, LS, intermit) controls
- Motor stall protection
- Solid base design, stable structure
- Surface mounting technology, advanced craftwork

Typical Applications

Automotive wiper control

TYPE

Type	Nominal voltage	Operating voltage range	Nominal motor load	Dimensions
HF3606/ 12-G	12VDC	9VDC to 16VDC	50W	(30 × 30 × 40)mm
HF3606/ 12-L	12VDC	9VDC to 16VDC	50W	(30 × 30 × 40)mm

CHARACTERISTICS

Wiping time	3.5s + 2.5s
Intermittent time	4s ± 0.6s（at 0Ω）
	12s ± 1s（at 10kΩ）
Electrical endurance	1×10^5 OPS (Norminal motor load)
Ambient temperature	-40˚C to 85˚C

Vibration resistance	sine	10Hz ~ 200Hz 49m/s^2
	random	10Hz ~ 1000Hz 19.6m/s^2
Shock resistance		196m/s^2
Weight		Approx. 36g
Mechanical data		Cover retention: 160N min.
		Terminal retention: 28N min.（2.8mm）
		100N min.（6.3mm）

ORDERING INFORMATION

	HF3606 /	12	-G	-B	(XXX)
Type					
Ntominal voltage	**12**: 12VDC				
Trigger level	**G**: High level start-up	**L**: Low level start-up			
Packing style	**B**: With bracket	**Nil**: Without bracket			
Special code[1)]	**XXX:** Customer special requirement	**Nil:** Standard			

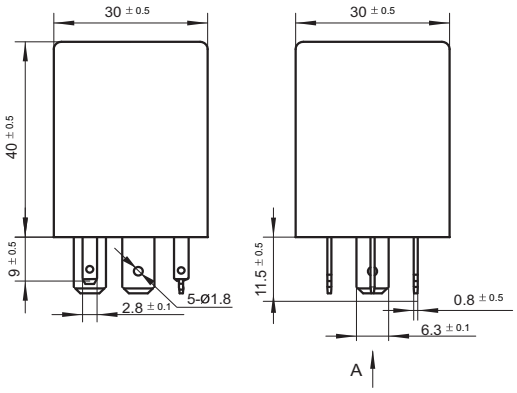
Notes: 1) The customer special requirement express as special code after evaluating by Hongfa.

OUTLINE DIMENSIONS, TERMINAL FUNCITON AND WIRING DIAGRAM

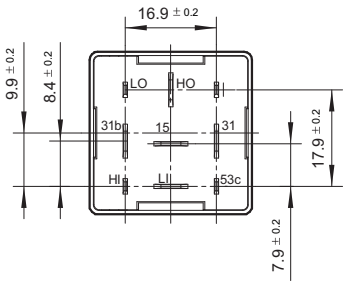
Unit: mm

Outline Dimensions

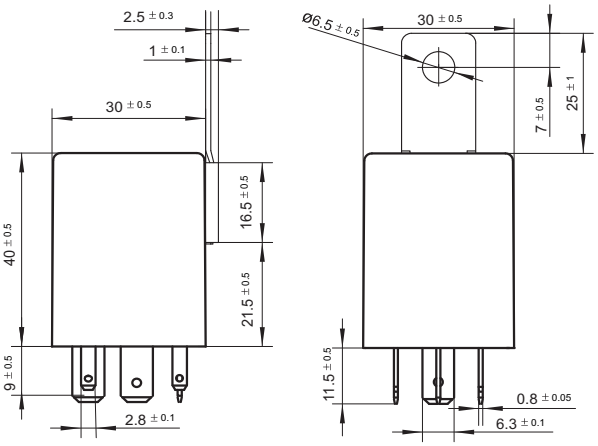
HF3606/12-☐(XXX)



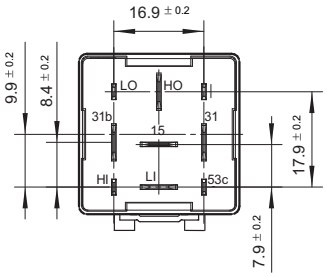
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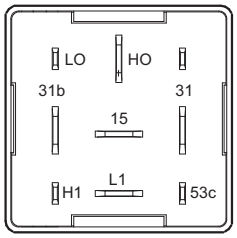
HF3606/12-☐-B(XXX)



A direction



Terminal function

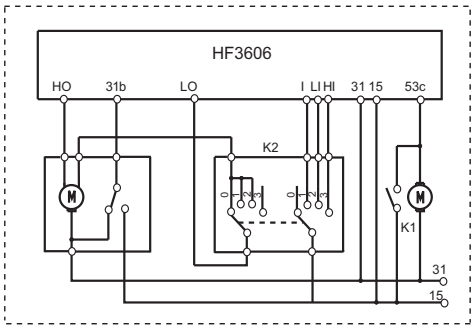


HI: Wiper HS conrol signal
LI: Wiper LS control signal
53c: Washing control signal
31b: Wiper parking signal
15: Power supply positivea
31: Power supply negative
HO: Wiper motor HS control
LO: Wiper motor LS control
I: Wiper intermittent control signal

OUTLINE DIMENSIONS, TERMINAL FUNCITON AND WIRING DIAGRAM

Unit: mm

WIRING DIAGRAM



1) As shown on left circuit, the terminal 15 is connected with positive electrode of power supply, terminal 31 is connected with negative electrode of power supply, the terminal I,LO,LI and HI are connected with combined switch, the terminal 31b is connected with wiper motor switch, the terminal 53c is connected with washing bump switch.
2) Intermit wiping, when combined switch K2 is at position 1, the terminal I will receive 12V voltage, the internal relay will start function, the terminal LO and 15 will be connected, the wiper motor will start to work, when terminal 31b receive feeback signal from 0V, the internal relay will release and the terminal LO and 15 will be opend, the wiper motor will stop. The above process will repeat after 4.0s±0.4s.
3) Low speed wiping, when combined switch K2 is at position 2, the terminal LI will receive 12V voltage, the internal relay will start function, the terminal LO and 15 will be connected, the wiper motor will start to work at low speed.
4) High speed wiping, when combined switch K2 is at position 3, the terminal HI will receive 12V voltage, the internal relay will start function, the terminal HO and 15 will be connected, the wiper motor will start to work at high speed.
5) Washing wiping, when K1 is closed, the terminal 53c will receive 12V voltage, the internal relay will start to function, the terminal LO and 15 will be connected, the wiper motor will start to work, when K1 is opened and delayed for 3.5s + 2.5s, the internal relay will release and the wiper motor will stop and will remain at stop position.

Disclaimer

The specification is for reference only. See to "Terminology and Guidelines" for more information. Specifications subject to change without notice.
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.

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