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HONGFA RELAY LIGHTING CONTROL

Focusing on providing complete & reliable relay solutions to customers
in lighting control market

 **HONGFA**

■ ABOUT HONGFA

Satisfying our customer's needs with our decades of development, manufacturing, technical innovations, continuous improvements of our products



Vertically integrated manufacturing with mold design and fabrication capability



Advanced test facilities certified by VDE, UL, CNAS that works with many international standards including UL 508



Vertically integrated manufacturing with automation machine fabrication and automation relay assembly

Hongfa is the leading relay manufacturer in Chinese and is a major global relay manufacturer and supplier.

With the business philosophy -- "Persevere for Progress, Strive for Excellence" , we have set up 20 subsidiaries including 6 domestic production sites which boasting a total factory area of 3.5 million sq. ft. The products ranges from relays to low-voltage devices, switchgears, high-precision components, and automated equipments. Among them, relay is our core business that covers 160 series with up to 40,000 types of specifications. The annual production capacity is 1 billion pieces. Hongfa Relays are currently being exported to over 100 countries & regions and widely used in intelligent building, industries of energy, transportation, information, home appliance and medical care etc. Our localization sales network around the world helps to fulfill global market operation and technical service.

Hongfa's global brand recognition mission promotes the progress of science & technology and our leadership in global relay industry. Our customer focused mission can only be achieved with our technological advanced development.



PRODUCT INTRODUCTION

Hongfa focuses on providing complete & reliable relay solutions to customers in lighting control field.

These series of relays are compliant with UL508/IEC60669-1/IEC60669-2-1. There are multiple options with diversified contact arrangements and latching/non-latching options, that are suitable for different types of load (Tungsten lamp, Standard ballast & Electronic ballast).

Hongfa has successfully provide lighting control relay solutions to well-known companies in intelligent building, energy-saving socket and street light fields around the world.

■ For Incandescent Lamp Including halogen lamp

Type	Latching Relays												Non-latching Relays						
	HFE00	HFE7	HF163F-L	HF115F-L/1H	HF115F-L/S	HFE20V...T	HFE20V...D	HFE10-L	HFE10	HF115F-L/2H	HF105F	HFE30	HF40FD	HF40F-G	HF32FA-G	HF115F	HF115F-S	HF115F-1,2,3	
Contact Form	1 Form A, 1 Form A+1 Form B, 2 Form A	1 Form A	1 Form A	1 Form A	1 Form A	1 Form A	1 Form A	1 Form A	1 Form A	2 Form A	1 Form A+1 Form B	2 Form A	1 Form A	1 Form A	1 Form A	1 Form A	1 Form A	1 Form A, 2 Form A	
200W																			
500W																			
800W																			
1000W																			
1500W																			
2000W																			
2770W																			
3000W																			
3500W																			
5000W																			
Motor Load, including Low-voltage halogen lamps(Inductive transformers)	1/8HP	1/3HP	1/2HP	1HP		1.5HP	1.5HP	3HP	5HP	1/2HP	2HP	2HP	1/10HP	1/8HP		1HP		3HP	

■ For Standard Ballast

Including Fluorescent lamp(Uncorrected), Dulux lamps(Uncorrected), Mercury-vapour lamps(Uncorrected), Sodium vapour lamps(Uncorrected), etc.

Type	Latching Relays											Non-latching Relays							
	HFE00	HFE7	HF103P-L	HF115F-L/1H	HF115F-L/S	HFE20V...T	HFE20V...D	HFE10-L	HFE10	HF115F-L/2H	HF105F	HFE30	HF40FD	HF40F-G	HF32FA-G	HF115F	HF115F-S	HF115F-1-2-3	
Contact Form	1 Form A, 1 Form A+1 Form B, 2 Form A	1 Form A	1 Form A	1 Form A	1 Form A	1 Form A	1 Form A	1 Form A	1 Form A	2 Form A	1 Form A+1 Form B	2 Form A	1 Form A	1 Form A	1 Form A	1 Form A	1 Form A	1 Form A, 2 Form A	
2A																			
3A																			
4A																			
5A																			
6A																			
8A																			
12A																			
15A																			
20A																			

■ For Electronic Ballast

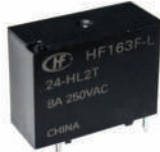
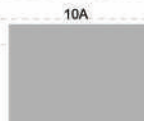
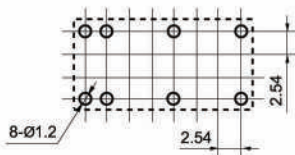
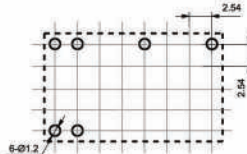
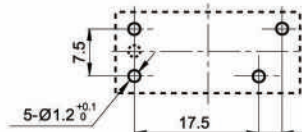
Including Fluorescent lamp(Parallel compensated), Low-voltage halogen lamps(Electronic transformer), Dulux lamps(Parallel compensated), Mercury-vapour lamps(Parallel compensated), Sodium vapour lamps(Parallel compensated), etc.

Type	Latching Relays									Non-latching Relays		
	HFE7	HF115F-L/1H	HF115F-L/S	HFE20V...T	HFE20V...D	HFE10-L	HFE10	HF105F	HFE30	HF115F	HF115F-S	HF115F-1-2-3
Contact Form	1 Form A	1 Form A	1 Form A	1 Form A	1 Form A	1 Form A	1 Form A	1 Form A+1 Form B	2 Form A	1 Form A	1 Form A	1 Form A, 2 Form A
3A	✓											
5A		✓								✓		
6A		✓										
8A									✓			
12A					✓							
16A			✓			✓		✓			✓	✓
20A			✓				✓					

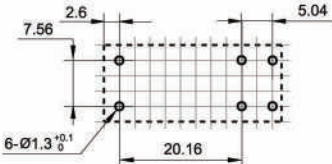
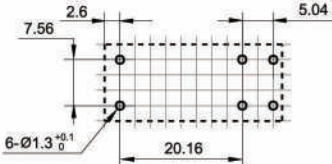
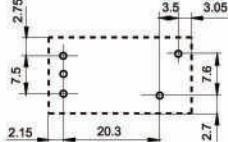
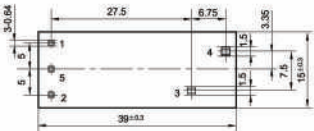
Notes: The above-mentioned spec. is for your reference only. Please select the spec. according to the actual application conditions. For any further details or assistance, please feel free to contact us.

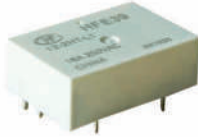
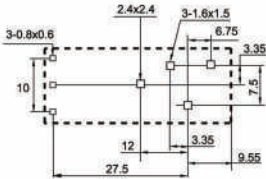
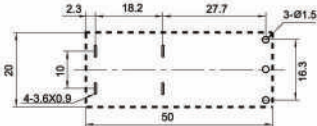
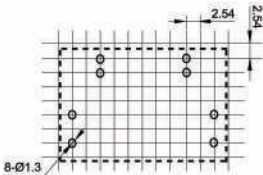
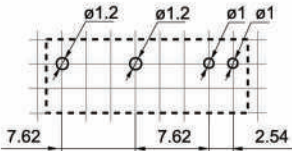
Lighting Control Relay Selection Guide

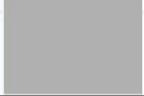
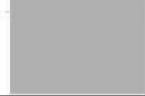
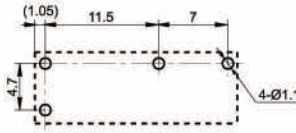
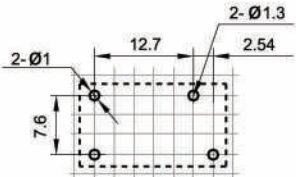
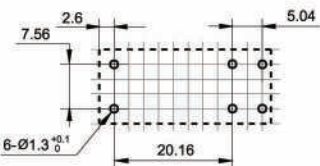
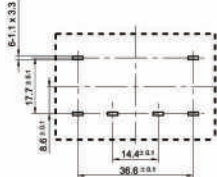
Latching Relays

Type	HFE60		HFE7	HF163F-L
Appearance				
Dimensions(L x W x H) mm	17.6 x 10.1 x 12.3		20.0 x 15.0 x 10.2	24.0 x 10.0 x 18.8
Contact Ratings				
Contact Form	1A	2A, 1A+1B	1A	1A
Contact Material	AgSnO ₂		AgSnO ₂	AgSnO ₂
Rated Switching Current (Resistive load)				
Incandescent Lamp	500W 277VAC		1000W 277VAC	800W 277VAC
Standard Ballast	3A 277VAC		6A 277VAC	4A 277VAC
Electronic Ballast	—		3A 120VAC	—
Motor Load	1/6HP 250VAC		1/3HP 250VAC	1/2HP 250VAC
Coil Ratings				
Rated Voltage	3VDC to 24VDC		3VDC to 24VDC	3VDC to 24VDC
Nominal Operating Power	0.15W, 0.3W		0.2W, 0.28W, 0.42W, 0.3W	0.2W, 0.4W
Specifications				
Insulation Resistance	1000MΩ		1000MΩ	1000MΩ
Dielectric Strength (Between coil and contacts)	3000VAC		4000VAC	5000VAC
Ambient Temperature	-40°C to 85°C		-40°C to 70°C	-40°C to 85°C
Operate / Release Time max.	10ms / 10ms		10ms / 10ms	15ms / 15ms
Mechanical Endurance min.	1 x 10 ⁷ OPS		1 x 10 ⁷ OPS	1 x 10 ⁶ OPS
Electrical Endurance min. (Rated resistive load)	3 x 10 ⁴ OPS		1 x 10 ⁵ OPS	5 x 10 ⁴ OPS
Layout (Bottom view)				
Approved Standards	UL/CUL TÜV		UL/CUL VDE	UL/CUL VDE (Being approved in June)

Notes: * Hongfa offers an optimal solution for all switching tasks in lighting controlled system. For specific supply system voltage such as 347VAC or 480VAC, please contact us.

HF115F-L		HF115F-LS	HFE20/...T, ...Q	HFE10-L*
				
29.0 x 12.7 x 15.7		29.0 x 12.7 x 15.7	29.0 x 12.7 x 15.7	39.0 x 15.0 x 29.3
1A	2A	1A	1A	1A
AgSnO ₂		W+AgSnO ₂	HFE20/...T: AgSnO ₂ HFE20/...D: W+AgSnO ₂	AgSnO ₂
16A	8A	16A	16A	40A
1500W 277VAC	500W 277VAC	3500W 277VAC	HFE20/...T: 2000W 277VAC HFE20/...D: 3000W 277VAC	5000W 277VAC
8A 277VAC	3A 277VAC	5A 120VAC	8A 277VAC	20A 277VAC / 16A 347VAC
5A 120VAC	—	16A 277VAC	HFE20/...T: 6A 120VAC HFE20/...D: 12A 277VAC	16A 277VAC
1HP 250VAC	1/2HP 250VAC	—	1.5HP 250VAC	3HP 250VAC
3VDC to 24VDC		3VDC to 24VDC	3VDC to 24VDC	6VDC to 48VDC
0.4W, 0.6W		0.4W, 0.6W	0.4W, 0.6W	1.5W, 3.0W
1000MΩ		1000MΩ	1000MΩ	1000MΩ
5000VAC		5000VAC	4400VAC	4000VAC
-40°C to 85°C		-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
10ms / 10ms		10ms / 10ms	15ms / 15ms	15ms / 15ms
5 x 10 ⁶ OPS	2 x 10 ⁶ OPS	5 x 10 ⁶ OPS	1 x 10 ⁶ OPS	1 x 10 ⁶ OPS
5 x 10 ⁴ OPS	1 x 10 ⁵ OPS	1 x 10 ⁴ OPS	1 x 10 ⁵ OPS	3 x 10 ⁴ OPS
				
UL/CUL VDE			UL/CUL VDE	UL/CUL VDE (Being approved in May)

			Non-Latching Relays
HFE10*	HF166F*	HFE39	HF49FD
			
39.0 x 15.0 x 30.2	50.0 x 27.0 x 20.0	20.0 x 30.0 x 10.2	20.0 x 5.0 x 12.5
1A AgSnO ₂	1A+1B AgSnO ₂	2A, 2B, 1A+1B AgSnO ₂	1A AgSnO ₂
50A	25A	20A	5A
5000W 277VAC	2000W 277VAC	3000W 277VAC	200W 120VAC
20A 277VAC / 15A 347VAC	15A 277VAC	12A 277VAC	2A 277VAC
20A 277VAC	16A 120VAC	8A 277VAC	—
5HP 250VAC	2HP 250VAC	2HP 250VAC	1/10HP 250VAC
6VDC to 48VDC	5VDC to 48VDC	3VDC to 48VDC	5VDC to 24VDC
1.5W, 3.0W	1.2W, 2.4W	1W, 2W	0.12W to 0.18W
1000MΩ	1000MΩ	1000MΩ	1000MΩ
4000VAC	5000VAC	4000VAC	3000VAC
-40°C to 70°C	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
15ms / 15ms	20ms / 20ms	15ms / 15ms	10ms / 5ms
1 x 10 ⁶ OPS	6 x 10 ⁵ OPS	1 x 10 ⁶ OPS	2 x 10 ⁷ OPS
3 x 10 ⁴ OPS	3 x 10 ⁴ OPS	1 x 10 ⁵ OPS	1 x 10 ⁵ OPS
			
UL/CUL	UL/CUL TÜV		UL/CUL TÜV

HF46F-G	HF32FA-G	HF115F/HF115F-S	HF116F-1,-2,-3*	
				
20.5 x 7.2 x 15.3	17.6 x 10.1 x 12.3	29.0 x 12.7 x 15.7	50.5 x 33.5 x 48.0 (HF116F-1)	
1A	1A	1A	1A	2A
AgSnO ₂	AgSnO ₂	HF115F: AgSnO ₂ HF115F-S: W+AgSnO ₂	AgSnO ₂	
				
500W 277VAC	1000W 277VAC	HF115F: 1500W 277VAC HF115F-S: 3500W 277VAC	2770W 277VAC	
3A 277VAC	5A 277VAC	HF115F: 8A 277VAC HF115F-S: 5A 120VAC	12A 277VAC	
—	—	HF115F: 5A 120VAC HF115F-S: 16A 277VAC	16A 120VAC	
1/6HP 250VAC	—	HF115F: 1HP 250VAC	3HP 250VAC	
3VDC to 24VDC	3VDC to 48VDC	5VDC to 110VDC	3VDC to 110VDC	
0.2W	0.23W, 0.45W	0.4W	1.9W	
1000MΩ	1000MΩ	1000MΩ	1000MΩ	
4000VAC	5000VAC	5000VAC	4000VAC	
-40°C to 85°C	-40°C to 85°C	-40°C to 85°C	-55°C to 70°C	
10ms / 10ms	8ms / 4ms	15ms / 8ms	30ms / 30ms	
5 x 10 ⁶ OPS	1 x 10 ⁶ OPS	1 x 10 ⁷ OPS	1 x 10 ⁷ OPS	
6 x 10 ⁴ OPS	1 x 10 ⁴ OPS	1 x 10 ⁵ OPS	1 x 10 ⁵ OPS	
				
UL/CUL VDE	UL/CUL VDE	UL/CUL VDE	UL/CUL TÜV	





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