

JQX-116F-1

MINIATURE HIGH POWER RELAY



File No.:E134517



File No.:R50031086



File No.:CQC02001001945



Features

- 30 A switching capabilities
- SPST and DPST configurations
- 4KV dielectric strength coil to contacts
- Heavy load up to 7500VA
- Class F insulation
- 3mm contact gap available

CONTACT DATA

Contact Arrangement	1A	2A
Initial Contact Resistance Max.	100mΩ (at1A 24VDC)	
Contact Material	Silver Alloy	
Contact Rating (Res. Load)	30A 250VAC 30A 28VDC	25A 250VAC 25A 28VDC
Max. switching voltage	277VAC/28VDC	
Max. switching current	30A	25A
Max. switching power	7500VA/840W	6250VA/700W
Mechanical life	1 x 10 ⁷ OPS	
Electrical life	1 x 10 ⁵ OPS	

CHARACTERISTICS

Initial Insulation Resistance		1000MΩ 500VDC
Dielectric Strength	Between coil and Contacts	4000VAC 1min.
	Between open contacts	2000VAC 1min.
Operate time (at nomi. Volt.)		Max. 30ms
Release time (at nomi. Volt.)		Max. 30ms
Shock Resistance	Functional	98 m/s ²
	Destructive	980 m/s ²
Vibration Resistance		DA: 1.5mm, 10 to 55Hz
Ambient temperature		-55°C to +70°C
Humidity		98%, +40°C
Termination		PCB & QC, Screw
Unit weight		Approx. 120g
Construction		Dust Cover

COIL

Coil power	DC:1.9W AC:2.7VA
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COIL DATA

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Coil Resistance Ω
3	2.25	0.3	4.7 ± 10%
6	4.50	0.6	18.8 ± 10%
12	9.00	1.2	75 ± 10%
24	18.0	2.4	300 ± 10%
48	36.0	4.8	1200 ± 10%
100	75.0	10.0	5200 ± 10%
110	82.5	12.0	6300 ± 10%
200	150	20.0	21000 ± 10%

Nominal Voltage VAC	Pick-up Voltage VAC	Drop-out Voltage VAC	Coil Resistance Ω
6	4.80	0.90	18.8 ± 10%
12	9.60	1.80	75 ± 10%
24	19.2	3.60	300 ± 10%
48	38.4	7.20	1200 ± 10%
120	96.0	18.0	5200 ± 10%
220	176	33.0	20800 ± 10%

SAFETY APPROVAL RATINGS

UL	AgSnO ₂	30A 277VAC 1.5HP 120VAC,3HP 240VAC 10A 120VAC
	AgCdO	30A 277VAC 1.5HP 120VAC,3HP 240VAC 10A 120VAC Tungsten TV-10 120VAC
TÜV		27A 240VAC cos phi=0.8
		25A 240VAC cos phi=0.4
		25A 240VAC cos phi=1



HONGFA RELAY
ISO9001、ISO/TS16949、ISO14001 CERTIFIED

VERSION: EN02-20040601

ORDERING INFORMATION

		JQX-116F-1 / 018		D	A	1H	T	F	W	C
Type										
Coil voltage		DC: 3 to 200VDC		AC: 6 to 220VAC						
Coil input		D: DC		A: AC						
Mounting		A: Mount		P: PCB		F: Flanged				
Contact arrangement		1H: 1 Form A		2H: 2 Form A						
Contact Material		T: AgSnO ₂		Nil: AgCdO						
Insulation System		Nil: Class B		F: Class F						
Contact Gap		W: 3.0mm		Nil: Standard Gap						
Capacitor		C: With Capacitor(for AC only)				Nil: Without Capacitor				

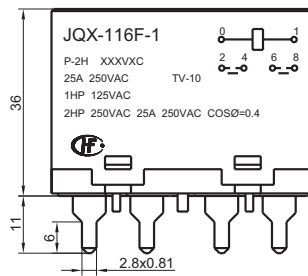
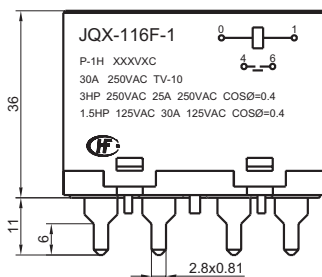
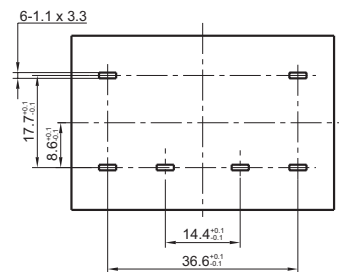
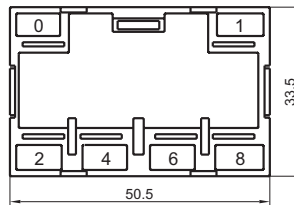
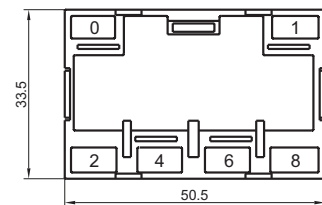
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Outline dimensions

PCB Layout

JQX-116F-1/□□□-□-P-1H-□

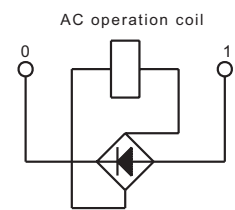
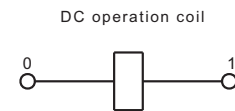
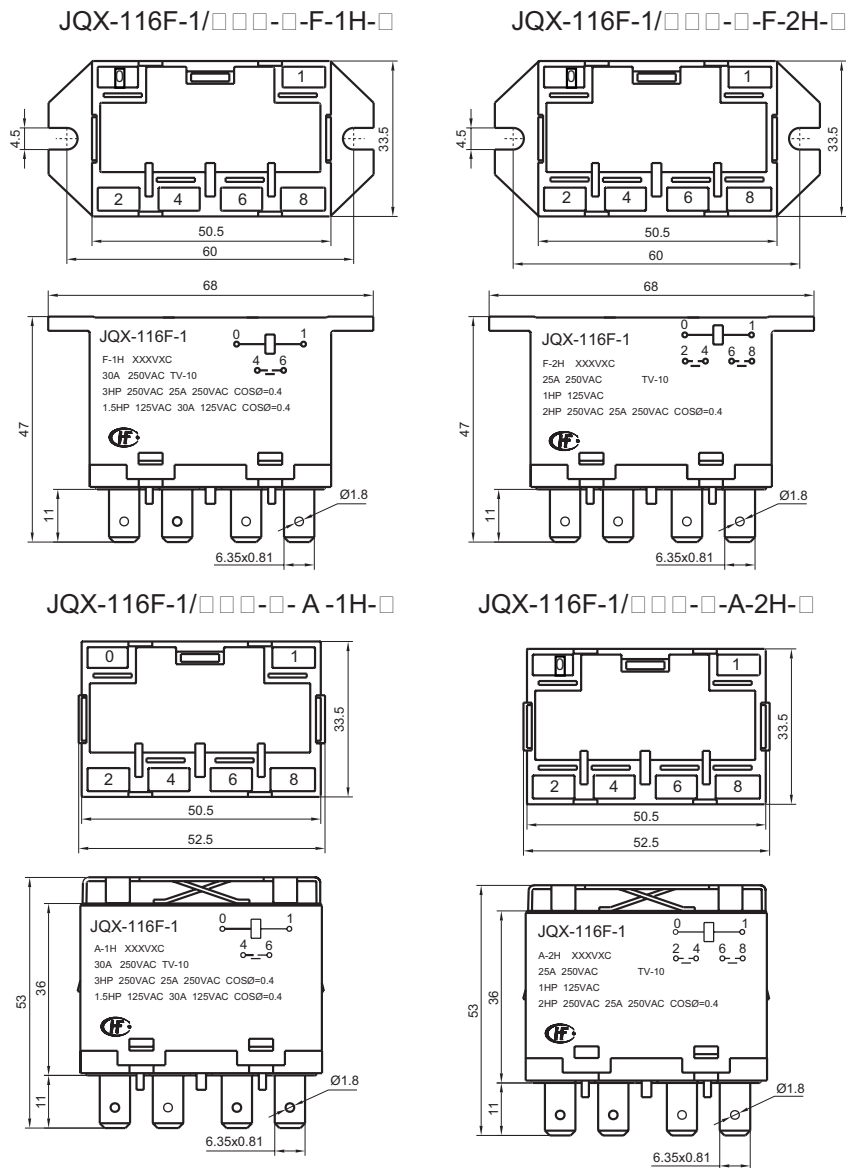
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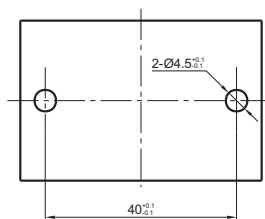
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Outline Dimensions

Wiring Diagram



Mounting holes



CHARACTERISTICS CURVE

