



MINIATURE POWER RELAYS

30A 1 POLE PCB & QC Terminals

**JQX-105F-2**

UL/CUR File No.: E134517



- 30A switching capabilities
- PCB coil terminals, ideal for heavy duty load
- Heavy load up to 7,200VA
- Open, Sealed & Unsealed type available
- Ambient Temp.

Class B: DC: -55 to +85 °C; AC: -55 to +60 °C

Class F: DC: -55 to +105 °C; AC: -55 to +85 °C

■ CONTACT DATA

Contact Form	1 FORM A		1 FORM B		1 FORM C	
	(NO)		(NC)		(NO)	
Initial Contact Resistance	50m Ω					
	(measured at 1A 24VDC)					
Contact Material	Silver Alloy					
UL Rating	30A 277VAC	15A 277VAC	20A 277VAC	10A 277VAC		
	30A 28VDC		20A 28VDC	10A 28VDC		
	2HP 250VAC		2HP 250VAC	1/4HP250VAC		
	1HP 125VAC		1HP 250VAC	1/2HP 125VAC		
JQX-105F-2 Rating	30A 240VAC	15A 240VAC	20A 240VAC	10A 240VAC		
	20A 28VDC	10A 28VDC	20A 28VDC	10A 28VDC		
JQX-105F-2L Rating	25A 240VAC	15A 240VAC	20A 240VAC	10A 240VAC		
	20A 28VDC	10A 28VDC	20A 28VDC	10A 28VDC		
Switching Capacity	7200VA/ 560W	3600VA/280W	4800VA / 560W	2400VA/ 280W		
Switching Current	Max 30A	Max 15A	Max 20A	Max 10A		
Switching Voltage	Max. 277VAC / 28VDC					
Electrical Life	1 × 10 <sup>5</sup> OPS min.					
Mechanical Life	1 × 10 <sup>7</sup> OPS min.					

■ SPECIFICATION

Insulation Resistance	1,000MΩ 5,00VDC
Dielectric Strength	
Between coil and Contacts:	2,500VAC 1minute
Between open contacts:	1,500VAC 1minute
Operate Time	15 ms
Release Time	10ms
Ambient Temperature	Class B: see above Class F: see above
Humidity	98 % +40 °C
Vibration Resistance	DA:1.5mm10 to 55Hz
Shock Resistance	98 m/s <sup>2</sup> Malfunction 980m/s <sup>2</sup> Mechanical
Dimension ( mm )	See Outline Dimensions
Weight	approx. 36 g
Termination	PCB and QC
Construction	Open, Sealed, Unsealed

■ COIL DATA

Coil Consumption	Coil Voltage	Coil Resistance
DC: 0.9W AC: 2VA	5 to110 VDC, 12 to 277VAC	see table below

■ TABLE

Nominal Voltage VDC	Pick-up Voltage	Drop-Out Voltage	Coil Resis. Ω±10%	Nominal Voltage	Pick-up Voltage	Drop-Out Voltage	Coil Resis. Ω±10%
5 VDC	3.75	0.5	27	18 VDC	13.50	1.8	380
6 VDC	4.50	0.6	40	24 VDC	18.00	2.4	660
9 VDC	6.75	0.9	97	48 VDC	36.00	4.8	2560
12 VDC	9.00	1.2	155	70 VDC	52.50	7.0	5500
15 VDC	11.25	1.5	256	110 VDC	82.50	11.0	13450

\* When requiring DC pull-in voltage <75% of nominal voltage, special order allowed.

■ TABLE

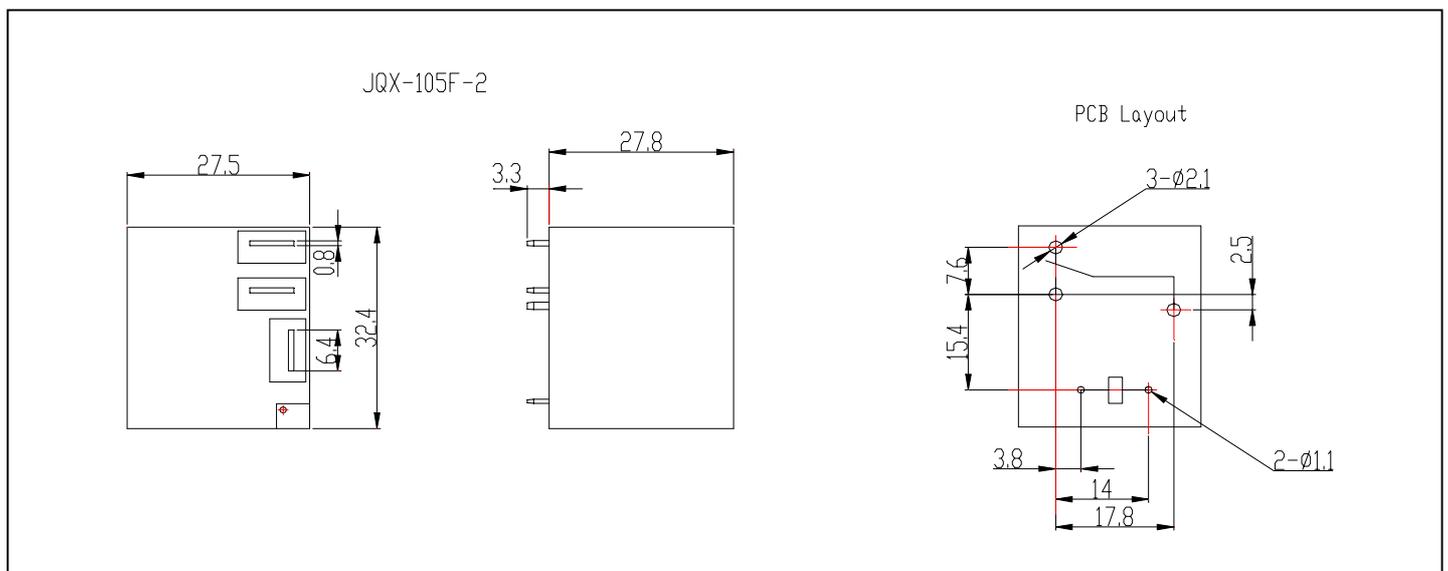
Nominal Voltage	Pick-up Voltage	Drop-Out Voltage	Coil Resis. $\Omega \pm 10\%$	Nominal Voltage	Pick-up Voltage	Drop-Out Voltage	Coil Resis. $\Omega \pm 10\%$
12 VAC	9.6	2.4	25	208 VAC	166.4	41	11000
24 VAC	19.2	4.8	100	240 VAC	192	48	13490
120 VAC	96.0	24.0	2500	277 VAC	220	54	15000

\* When requiring AC pull-in voltage <80% of nominal voltage, special order allowed.

■ ORDER DESIGNATION

<b>JQX-105F-2</b>	/	<b>018</b>	<b>D</b>	-	<b>1H</b>	<b>S</b>	<b>F</b>
Model		Coil Volt.	Coil Input		Contact Form	Structure	F: Class F
Without F: Open		DC: 5 to 110V	D:DC		1H: NO	NIL: Dust Cover	Nil: Class B
L: 25A		AC:12 to 277V	A:AC		1D: NC	S: Sealed	
NIL: 30A					1Z: SPDT		

■ OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT



■ USEFUL CURVES

