


**MINIATURE POWER
RELAYS**
30A 1 POLE PC BOARD TYPE
JQX-105F-1

UL/CUR File No. : E134517

- 30A switching capabilities
- PCB coil terminals, ideal for heavy duty load
- 4KV dielectric coil to contacts
- 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)	(NC)
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-1 Rating	30A 240VAC	15A 240VAC	20A 240VAC	10A 240VAC
	20A 28VDC	10A 28VDC	20A 28VDC	10A 28VDC
JQX-105F- 1L 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 ⁵ OPS min.			
Mechanical Life	1 × 10 ⁷ OPS min.			

■ SPECIFICATION

Insulation Resistance	1000MΩ
	500VDC
Dielectric Strength coil and Contacts:	2500VAC 1minute
	T:4000VAC 1minute
Between open contacts:	1500VAC 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 ² Malfunction
	980m/s ² Mechanical
Dimension (mm)	See Outline
	Dimensions
Weight	approx. 36 g
Termination	PCB
Construction	Open, Sealed Unsealed

■ COIL DATA

Coil Consumption	Coil Voltage	Coil Resistance
DC: 0.9W AC: 2VA	5 to 110 VDC 12 to 277VAC	see table below

■ TABLE

Nominal Voltage	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

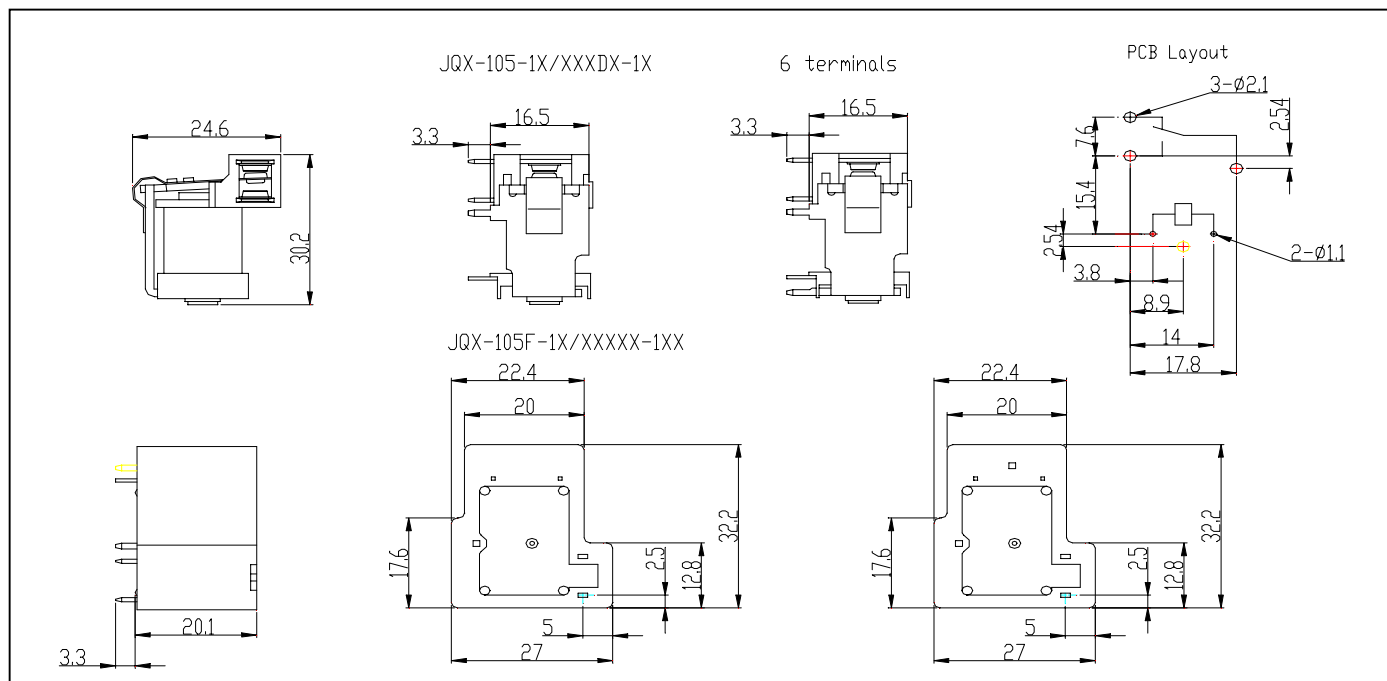
Nominal Voltage	Pick-up Voltage	Drop-Out Voltage	Coil Resis. $\Omega \pm 10\%$	Nominal Voltage	Pick-up Voltage	Drop-Out Voltage	Coil Resis. $\Omega \pm 10\%$
12 VAC	9.6	2.4	25	208 VAC	166.4	41	11000
24 VAC	19.2	4.8	100	240 VAC	192	48	13490
120 VAC	96.0	24.0	2500	277 VAC	220	54	15000

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

■ ORDER DESIGNATION

JQX-105F-1L	/	018		D		T	-	1H		S		F
Model		Coil Volt.		Coil Input		Mounting & Termination		Contact Form		Structure		F: Class F
Without F: Open		DC: 5 to 110V		D: DC		6: 6 Terminals; Nil: 5 Terminals		1H: NO		NIL: Dust Cover		Nil: Class B
L: 25A		AC:12 to 277V		A: AC		T: Dielectric Strength Between Coil And		1D: NC		S: Sealed		
NIL: 30A						Contact: 4000VAC Nil: 2500VAC		1Z: SPDT				

■ OUTLINE DIMENSIONS ,WIRING DIAGRAM AND PC BOARD LAYOUT



■ USEFUL CURVES

