

JQX-105F-4

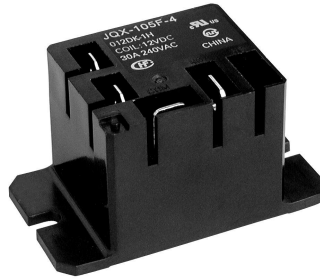
MINIATURE HIGH POWER RELAY



File No.:E134517



File No.:CH0023315-2002A



Features

- 30A switching capabilities
- 2.5KV dielectric coil to contacts
- Heavy load up to 7,200VA
- Class B, Class F insulation available

CONTACT DATA

Contact Arrangement	1A	1B	1C (NO)	1C (NC)
Initial Contact Resistance	50mΩ (at 1A 24VDC)			
Contact Material	AgCdO			
Max. Switching Capacity	7200VA/560W	3600VA/280W	4800VA/560W	2400VA/280W
Max. Switching Voltage	277VAC/28VDC			
Max. Switching Current	30A	15A	20A	10A
UL/CUR rating	30A 277VAC 30A 28VDC 2HP 250VAC 1HP 125VAC	15A 277VAC	20A 277VAC 20A 28VDC 2HP 250VAC 1HP 125VAC	10A 277VAC 10A 28VDC 1/4HP 250VAC 1/2HP 125VAC
JQX-105F-4 Rating	30A 240VAC 20A 28VDC	15A 240VAC 10A 28VDC	20A 240VAC 20A 28VDC	10A 240VAC 10A 28VDC
JQX-105F-4L Rating	25A 240VAC 20A 28VDC	15A 240VAC 10A 28VDC	20A 240VAC 20A 28VDC	10A 240VAC 10A 28VDC
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	2500VAC 1min.
	Between open contacts	1500VAC 1min.
Operate time (at nomi. Volt.)		15ms
Release time (at nomi. Volt.)		10ms
Ambient temperature	Class B	DC:-55°C to 85°C AC:-55°C to 60°C
	Class F	DC:-55°C to 105°C AC:-55°C to 85°C
Shock Resistance	Functional	98 m/s ²
	Destructive	980 m/s ²
Vibration Resistance		DA: 1.5mm, 10 to 55Hz
Humidity		98%, +40°C
Termination		PCB & QC
Unit weight		Approx. 36g
Construction		Sealed & Dust Cover

COIL

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

COIL DATA

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Coil Resistance Ω
5	3.75	0.5	27 ± 10%
6	4.50	0.6	40 ± 10%
9	6.75	0.9	97 ± 10%
12	9.00	1.2	155 ± 10%
15	11.25	1.5	256 ± 10%
18	13.50	1.8	380 ± 10%
24	18.00	2.4	660 ± 10%
48	36.00	4.8	2560 ± 10%
70	52.50	7.0	5500 ± 10%
110	82.50	11	13450 ± 10%

Nominal Voltage VAC	Pick-up Voltage VAC	Drop-out Voltage VAC	Coil Resistance Ω
12	9.6	2.4	25 ± 10%
24	19.2	4.8	100 ± 10%
120	96.0	24.0	2500 ± 10%
208	166.4	41	11000 ± 10%
220/240	192	48	13490 ± 10%
277	220	54	15000 ± 10%

Note: When require pick-up voltage < 80% of nominal voltage, special order allowed.



ORDERING INFORMATION

JQX-105F-4 / 018

D

K

1H

S

F

Type JQX-105F-4: 30A JQX-105-4L: 25A

Coil voltage DC:5 to 110VDC AC:12 to 277VAC

Coil Input D: DC A: AC

Coil terminal width K: 4.8mm Nil: 2.8mm

Contact arrangement 1H:1A(SPST-NO) 1D:1B(SPST-NC) 1Z:1C(SPDT)

Structure S: Sealed Nil: Cover

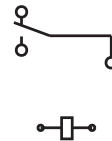
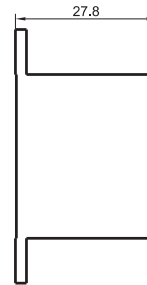
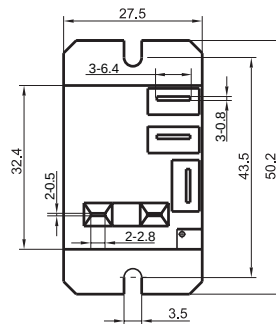
Insulation Standard F: Class F Nil: Class B

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

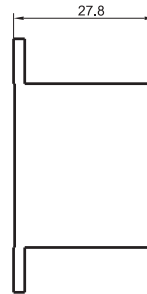
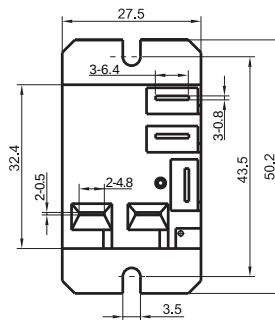
Outline Dimensions

Wiring Diagram

JQX-105F-4/ - - - -
2.8mm Coil terminal width

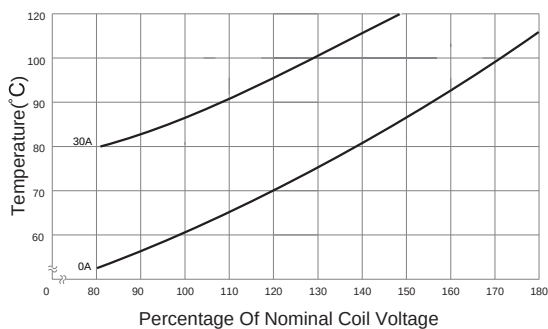


JQX-105F-4/ - -K- - -
4.8mm Coil terminal width



CHARACTERISTICS CURVE

COIL TEMPERATURE RISE



MAXIMUM SWITCHING POWER

