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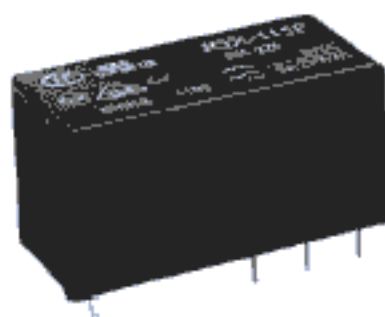
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File No.:CQC02001001951



Features

- Low height 15.7 mm
- 16A switching capability
- 5KV dielectric strength (between coil and contacts)
- Creepage distance: 10mm
- VDE0435/0631/0700, CTI250
- Sealed IP67 & flux proof types available
- Environmental friendly product available (RoHS compliant)
- Outline Dimensions: 29.0 x 12.7 x 15.7 mm

CONTACT DATA

Contact arrangement	1A, 1B, 1C	2A, 2B, 2C
Initial contact resistance Max.	50mΩ (at 1A 24VDC)	
Contact material	See ordering info.	
Contact rating (Res. load)	12A/16A 250VAC	8A 250VAC
Max. switching voltage	440VAC / 125VDC	
Max. switching current	12A / 16A	8A
Max. switching power	3000VA / 4000VA	2000VA
Mechanical life	1 x 10 ⁷ ops	
Electrical life	1 x 10 ⁵ ops	

CHARACTERISTICS

Initial insulation resistance	1000MΩ (at 500VDC)	
Dielectric strength	Between coil & contacts	5000VAC 1min.
	Between open contacts	1000VAC 1min.
	Between contact sets	2500VAC 1min.
Surge voltage (between coil & contacts)	10KV (1.2X50μs)	
Operate time (at nomi. volt.)	Max. 15ms	
Release time (at nomi. volt.)	Max. 8ms	
Temperature rise (at nomi. volt.)	55°C	
Shock resistance	Functional	100 m/s ²
	Destructive	1000m/s ²
Vibration resistance	10 to150 Hz 10g/5g	
Humidity	35 to 85% RH	
Ambient temperature	-40°C to +85°C	
Termination	PCB	
Unit weight	13.5g	
Construction	Sealed IP67, Flux proof	

COIL

Coil power	400mW
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COIL DATA

Nominal Voltage (VDC)	Pick-up Voltage (VDC)	Drop-out Voltage (VDC)	Max. Allowable Voltage (VDC) 20°C	Coil Resistance (Ω) 20°C
5	3.50	0.5	7.5	62 ± 10%
6	4.20	0.6	9.0	90 ± 10%
9	6.30	0.9	13.5	202 ± 10%
12	8.40	1.2	18	360 ± 10%
18	12.60	1.8	27	810 ± 10%
24	16.80	2.4	36	1440 ± 10%
48	33.60	4.8	72	5760 ± 15%
60	42.00	6.0	90	7500 ± 15%
110	77.00	11.0	165	25200 ± 15%

SAFETY APPROVAL RATINGS

FIMKO	8A 250VAC at 70 °C
	12A 250VAC at 70 °C
	16A 250VAC at 70 °C

SAFETY APPROVAL RATINGS

VDE

Contact material	Specifications	Ratings	Ambient Temperature
AgCdO	JQX-115F...2(H;Z)(S)4(G)(F)	8A 250VAC	at 70°C
	JQX-115F...1H(S)(1;2)(G)(F)	12A 250VAC	at 70°C
		10A 250VAC	at 70°C
	JQX-115F...1Z(S)(1;2)(G)(F)	12A 250VAC	at 70°C
	JQX-115F...1H(S)3(G)(F)	16A 250VAC	at 70°C
		10A 250VAC	at 70°C
		9A 250VAC COS ϕ = 0.4	at 70°C
JQX-115F...1Z(S)3(G)(F)	16A 250VAC	at 70°C	
	9A 250VAC COS ϕ = 0.4	at 70°C	
AgNi	JQX-115F...2(H;Z)(S)4B(G)(F)	5A 400VAC	at 85°C
		8A 250VAC	at 85°C
	JQX-115F...1(H;Z)(S)3B(G)(F)	9A 250VAC COS ϕ = 0.4	at 70°C
		16A 250VAC	at 85°C
	JQX-115F...1H(S)(1;2)B(G)(F)	12A 250VAC	at 85°C
10A 250VAC		at 85°C	
AgSnO ₂	JQX-115F...1(H;Z)(S)(1;2)A(G)(F)	12A 250VAC	at 85°C
	JQX-115F...1(H;Z)(S)3A(G)(F)	16A 250VAC	at 85°C
		9A 250VAC COS ϕ = 0.4	at 70°C
	JQX-115F...2(H;Z)(S)4A(G)(F)	8A 250VAC	at 85°C

UL&CUR

Version 1 or 2 (AgCdO)	12A 277VAC
	1/2HP 250VAC
	1/3HP 125VAC
Version 1 or 2 (AgSnO ₂)	12A 277VAC
	B 300
	R300
Version 1 or 2 (AgNi)	12A 277VAC
Version 3 (AgCdO)	16A 277 VAC
	9A 250VAC at 105°C
	1HP 250VAC
	1/2HP 125VAC
	TV-5 125VAC
Version 3 (AgSnO ₂)	16A 277 VAC
	B 300
	R300
Version 3 (AgNi)	16A 277VAC
Version 4 (AgCdO)	10A 250VAC
	8A 277VAC
	1/2HP 250VAC
	1/4HP 125VAC
Version 4 (AgSnO ₂)	8A 277VAC
Version 4 (AgNi)	8A 277VAC

ORDERING INFORMATION

JQX-115F / 012 1H S 1 A F XXX

Type

Coil voltage 5, 6, 9, 12, 18, 24, 48, 60, 110VDC

Contact arrangement 1H: 1 Form A 1D: 1 Form B 1Z: 1 Form C
2H: 2 Form A 2D: 2 Form B 2Z: 2 Form C

Construction S: Sealed IP67 Nil: Flux proof

Version 1: 3.5mm 1 pole 12A 2: 5.0mm 1 pole 12A
3: 5.0mm 1 pole 16A 4: 5.0mm 2 pole 8A

Contact material A: AgSnO₂ B: AgNi G: AgCdO+ Au plated
BG: AgNi+Au plated Nil: AgCdO

Insulation standard F: Class F Nil: Class B

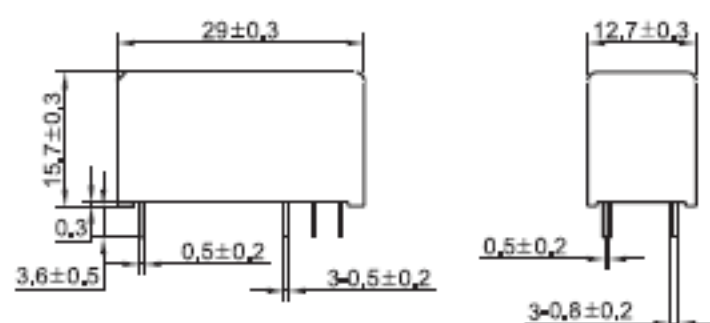
Customer special code e.g. 551 stands for RoHS compliant (Cadmium containing contacts)
(Only for special requirements) 555 stands for RoHS compliant (Cadmium-free contacts)

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

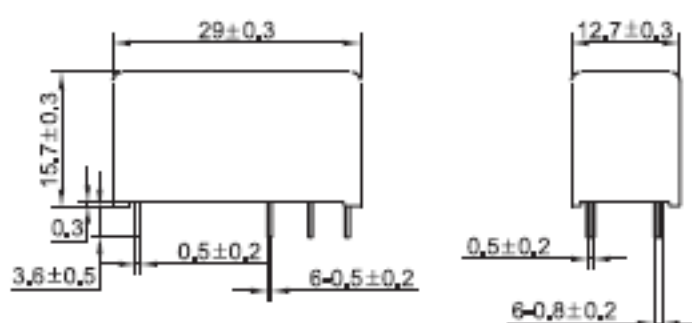
Unit: mm

Outline Dimensions

3.5mm Pinning (JQX-115F/□□□-□□-□-1-□□)

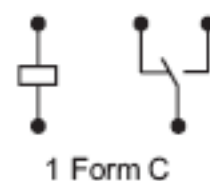
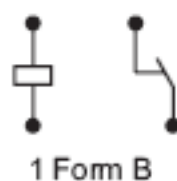
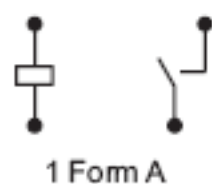


5mm Pinning (JQX-115F/□□□-□□-□-2/3/4-□□)

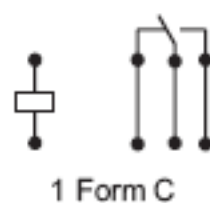
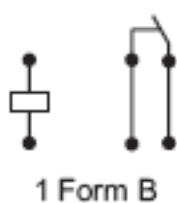
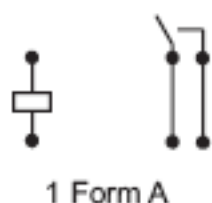


Wiring Diagram (Bottom view)

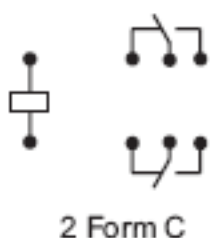
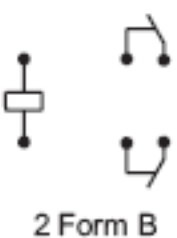
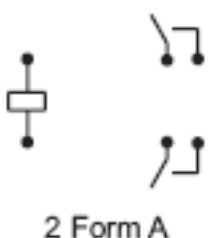
JQX-115F/□□□-□□-□-1/2-□□, 3.5/5mm Pinning, 1 Pole, 12A



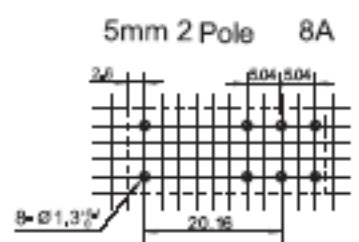
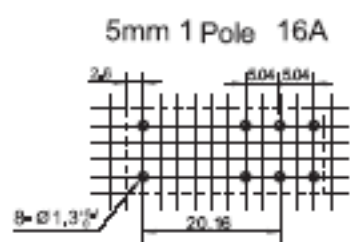
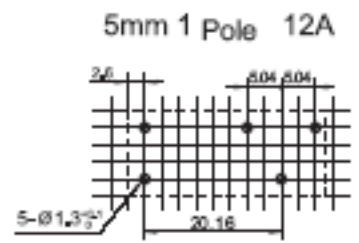
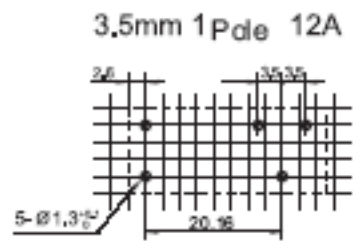
JQX-115F/□□□-□□-□-3-□□, 5mm Pinning, 1 Pole, 16A



JQX-115F/□□□-□□-□-4-□□, 5mm Pinning, 2 Pole, 8A

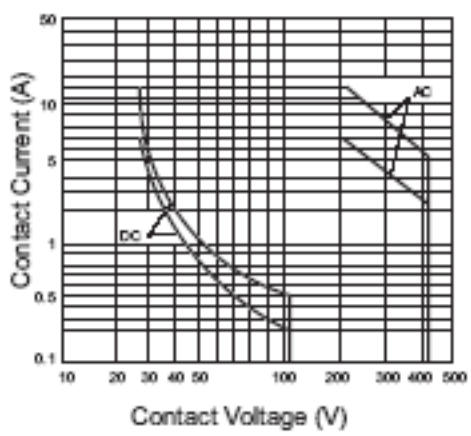


PCB Layout (T=2.52±0.02mm)

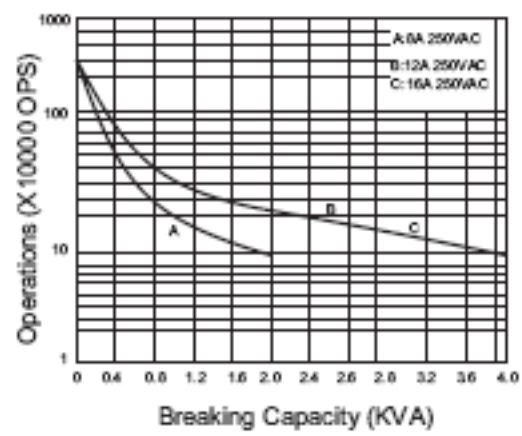


CHARACTERISTIC CURVES

MAXIMUM SWITCHING POWER



LIFE CURVE



COIL OPERATING RANGE(DC)

