



Dust Covered
 26.5×21×22.3



Open Type
 24×19×20

JQC-4(4120)

Features

- Small size, heavy contact load, capable of standing strong current of 40A at 14VDC.
- PC board mounting.
- Suitable for automatic control facilities and automobile application etc.
- Both European 11mm footprint and American 8mm footprint available.

Contact Data

Contact Arrangement	1A, 1B, 1C		
Contact Material	AgNi	Ag·SnO ₂	Ag·CdO Ag·SnO ₂ ·In ₂ O ₃
Contact Rating (resistive)	NO: 40A/14VDC; NC: 30A/14VDC, 20A/120VAC, 15A/28VDC		
Max. Switching Power	360W	1800VA	
Max. Switching Voltage	75VDC	380VAC	Max. Switching Current:40A
Contact Resistance or Voltage drop	≤30mΩ		Item 3.12 of IEC255-7
Operation life	Electrical	10 ⁵	Item 3.30 of IEC255-7
	Mechanical	10 ⁷	Item 3.31 of IEC255-7

Coil Parameter

Coil voltage VDC		Coil resistance Ω±10%	Pickup voltage VDC(max) (70%of rated voltage)	release voltage VDC(min) (10% of rated voltage)	Coil power consumption W	Operate Time ms	Release Time ms
Rated	Max.						
6	7.8	19	4.20	0.6	1.9	≤5	≤3
9	11.7	42.6	6.30	0.9			
12	15.6	90	8.40	1.2	1.6	≤5	≤3
18	23.4	202.5	12.6	1.8			
24	31.2	360	16.8	2.4			

CAUTION: 1.The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.

2.Pickup and release voltage are for test purposes only and are not to be used as design criteria.

Operation condition

Insulation Resistance	100MΩ min (at 500VDC)	Item 7 of IEC255-5
Dielectric Strength		
Between contacts	50Hz 500V	Item 6 of IEC255-5
Between contact and coil	50Hz 750V	Item 6 of IEC255-5
Shock resistance	200m/s ² 11ms	IEC68-2-27 Test Ea method 1
Vibration resistance	10~40Hz double amplitude 1.27mm	IEC68-2-6 Test Fc
Terminals strength	10N	IEC68-2-21 Test Ua1
Solderability	230℃ ±2℃ 10 ±0.5s	IEC68-2-20 Test Ta method 1
Ambient Temperature	-40~110℃	
Relative Humidity	85% (at 40℃)	IEC68-2-3Test Ca
Mass	19g (Open type) 21g	

Qualification inspection:

Perform the qualification test as specified in the table IV of IEC255-19-1 and minimum sample size 24.

Ordering Information					
JQC-4	C	Z	30	DC12V	1.6
Coil power consumption: 1.6:1.6W, 1.9:1.9W					
Coil rated DC Voltage 6V, 9V, 12V, 18V, 24V					
Contact current 15:15A, 30:30A, 40:40A					
S: Sealed type, Z: Dust Cover, O: Open type					
Contact Arrangement A:1A, B:1B, C:1C					
Part number: JQC-4(4120)					

Dimensions (Unit: mm)		mm	inch
<p>Open type</p> <p>Dust cover type</p> <p>Dimensions</p> <p>USA</p> <p>European</p> <p>Mounting (Bottom views)</p> <p>Wiring diagram(Bottom views)</p> <p>1A</p> <p>1B</p> <p>1C</p>		0.4	0.016
		0.8	0.031
		1.0	0.039
		1.3	0.051
		1.4	0.055
		2.0	0.079
		2.1	0.083
		2.2	0.087
		2.28	0.090
		2.5	0.098
		2.6	0.106
		3.3	0.130
		3.5	0.138
		3.78	0.149
		4.0	0.157
		4.5	0.173
	5.35	0.210	
	5.9	0.232	
	9.09	0.358	
	10.1	0.398	
	12.2	0.480	
	13.2	0.520	
	14.8	0.583	
	15.9	0.626	
	19	0.748	
	20	0.787	
	22.3	0.878	
	24	0.945	
	26.5	1.043	

NOTES 1).Dimensions are in millimeter.

2).Inch equivalents are given for general information only.

Reference Data			
<p>Operation Time</p>	<p>Coil Temp Rise</p>	<p>Life expectancy</p>	<p>Contact switching capacity</p>