NO:2020.04

CHINT ELECTRICS

JZC4 Series
Contactor Relay

User Instruction

Standard: IEC/EN 60947-5-1

⚠ Safety Warning

1. Only professional technicians are allowed for installation and maintenance.
2. Installation in any damp, condensed-phase environment with inflammable and explosive gas is forbidden.
3. When the product is being installed or maintained, the power must be switched off.
4. You are prohibited from touching the conductive part when the product is operating.

1 Use Purpose and Range of Application

JZC4 series contactor relay (hereinsafter referred to as relay) is mainly used for connection, disconnection and amplification in relay control circuits, signal transmission circuits and isolated amplification circuits with frequency of AC 50Hz/60Hz, rated operating voltage up to 400V and DC voltage up to 250V.

2 Key Technical Parameters and Performance

Table 1 Environmental conditions

Environmental conditions	
Ambient temp. (℃)	-5℃~+40℃, average temperature should not exceed +35℃ within 24h
Hot and humid atmospheric conditions	Relative humidity should not exceed 50% at +40℃; up to 90% at +20℃;
Altitude	No influence below 2000m
Pollution class/installation category	Class 3/III

Table 2 Key technical parameters and performance index

Application category	AC-15	DC-13
Rated insulation voltage (V)	690	
Rated operating voltage (V)	380/400	220/250
Rated operating current (A)	0.95	0.15
Rated impulse withstand voltage (kV)	6	
Conventional free air thermal current (A)	10	
Rated control capacity	360VA	33W
Minimum load (reliable operation)	6VX10mA	

Continued Table 2

<table>
<tr><th colspan="3">Application category</th><th colspan="4">AC-15</th><th colspan="4">DC-13</th></tr>
<tr><td colspan="3">Electrical life (10^4 times)</td><td colspan="8">100</td></tr>
<tr><td colspan="3">Mechanical life (10^4 times)</td><td colspan="8">1000</td></tr>
<tr><td colspan="3">Operating frequency(times/h)</td><td colspan="8">1200</td></tr>
<tr><td colspan="3">Fuse model</td><td colspan="8">RT16-00/10</td></tr>
<tr><td rowspan="2">Coil power</td><td colspan="2">Pick-up (VA)</td><td colspan="8">70</td></tr>
<tr><td colspan="2">Hold (VA)</td><td colspan="8">9.5</td></tr>
<tr><td colspan="3">Operation range</td><td colspan="8">Pick-up voltage: (85%~110%)Us
Release voltage: (20%~75%)Us</td></tr>
<tr><td rowspan="3">Auxiliary contacts</td><td colspan="2">Basic parameters</td><td colspan="8">AC-15： Ue:AC380/400V Ie:0.95A
DC-13： Ue:DC220/250V Ie:0.15A Ith： 10A</td></tr>
<tr><td colspan="2" rowspan="2">Combination</td><td colspan="3">F4 two groups</td><td colspan="5">F4 four groups</td></tr>
<tr><td>F4-20</td><td>F4-11</td><td>F4-02</td><td>F4-40</td><td>F4-31</td><td>F4-22</td><td>F4-13</td><td>F4-04</td></tr>
<tr><td rowspan="4">Cold pressed terminals</td><td rowspan="4">Soft wire with cold pressed terminal
Soft wire without cold pressed terminal
Hard wire</td><td>Pieces</td><td colspan="8">1~2</td></tr>
<tr><td rowspan="3">mm^2</td><td colspan="8">1~4</td></tr>
<tr><td colspan="8">1~2.5</td></tr>
<tr><td colspan="8">1~4</td></tr>
</table>

3 Installation

3.1 See Figure 1 for relay outline and installation dimensions, See Figure 2 for installation diagram.

3.2 See Figure 3 for relay wiring diagram.

Unit: mm

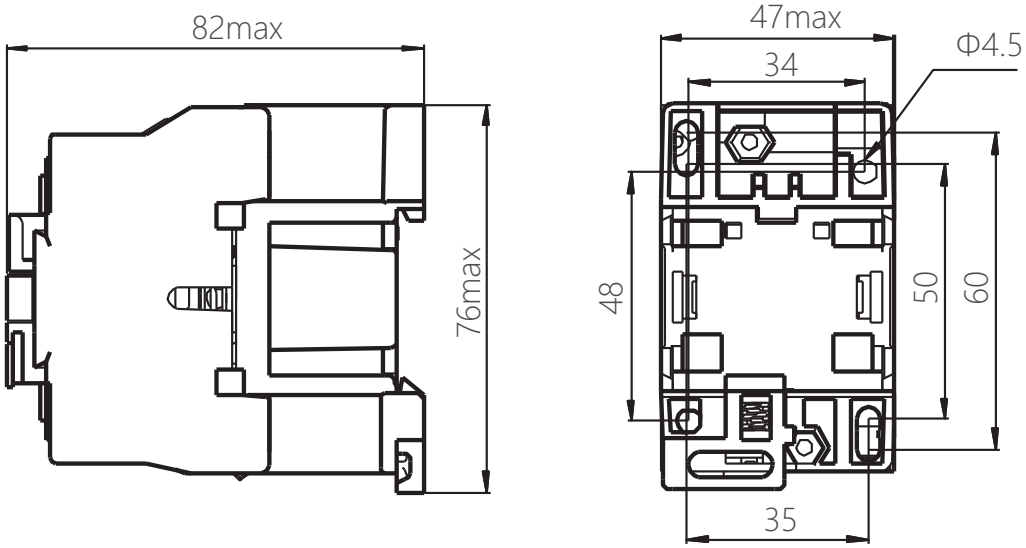


Figure 1 Overall and installation dimensions

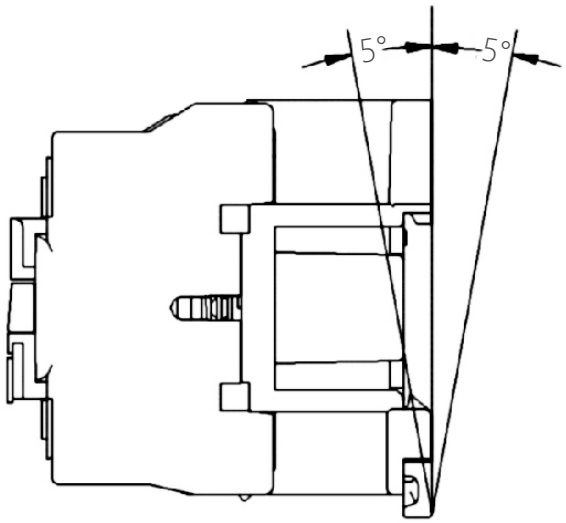
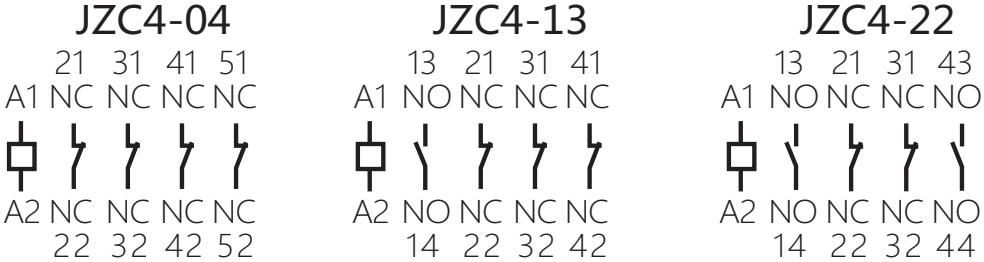


Figure 2 Relay installation diagram



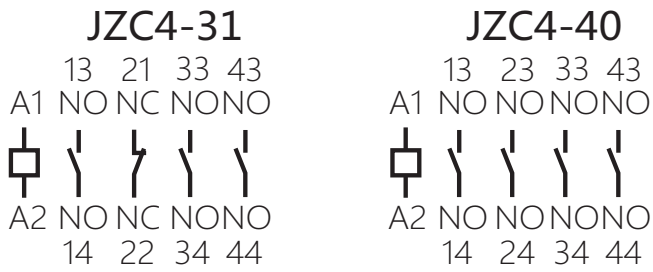


Figure 3 Marks of wiring terminals

4 Maintenance

Check if the relay can operate reliably every month. Method: Check if the relay incline 5° forward upon pick-up and incline 5° backward upon release.

Conduct maintenance every month.

Note: Do not disassemble, assemble and repair the product at will. Replace the product if it is found to be damaged.

Table 3 Analysis and Troubleshooting of Faults

Symptoms	Cause analysis	Troubleshooting method
The product does not operate or does not operate reliably.	Inconsistency between control power voltage and coil voltage.	Use control power supply that complies with coil voltage.
	Insufficient operation circuit power capacity or disconnection or wrong connection exists in the circuit.	Check the circuit to ensure correct connection.
	Coil burnt; mechanical movable parts jammed.	Replace the coil, remove foreign objects or replace the product.
Noise	There are foreign objects on the polar face of magnet yoke or armature.	Clean the polar face of the iron core.
	The voltage of control power supply is too low.	Use control power supply that complies with coil voltage.
The product does not release or release slowly.	Contact welding	Replace the product.
	There is oil or dust on the polar face of the iron core.	Clean the polar face of the iron core.

5 Environmental Protection

In order to protect the environment, the product or product parts should be disposed of according to the industrial waste treatment process, or be sent to the recycling station for assortment, dismantling and recycling according to local regulations.

CHINT

QC PASS

JZC4 Series
Contactor Relay
IEC/EN 60947-5-1

Check 45

Test date: Please see the packing

ZHEJIANG CHINT ELECTRICS CO.,LTD.

CHINT ELECTRICS

JZC4 Series
Contactor Relay
User Instruction

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