



Product Service

CERTIFICATE

No. B 108738 0003 Rev. 03

Holder of Certificate: Suzhou AnLaiQiang Electronic Technology Co.,LTD

North of the 4th floor of plant 4 #, No. 599, Taishan Road
Suzhou New District
215000 Suzhou City
PEOPLE'S REPUBLIC OF CHINA

Certification Mark:



Product: Contactors

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the Testing, Certification, Validation and Verification Regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 64105213049204

Valid until: 2029-07-09

Date, 2024-07-10

(Martin Ma)

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Model(s):

**EVQ300 series, EVQ250 series,
EVQ200 series, EVQ150 series**

Remark:

Description the rule of the designation of the DC contactor:

EVQ 200 E 12 D 01 A 001
I II III IV V VI VII VIII

I – Basic series designation

EVQ: EVQ series

II –Rated current

150: 150A

200: 200A

250: 250A

300: 300A

III – Contact Configuration

C: Single pole normally open main contact with polarity

D: Single pole normally open main contact with polarity,
and with single pole normally open auxiliary contact.

E: Single pole normally open main contact without polarity

G: Single pole normally open main contact without polarity,
and with single pole normally open auxiliary contact.

IV – Supply voltage of control part

12: 12VDC

24: 24VDC

48: 48VDC

1: 12-36VDC

V – The terminal type of control part

D: wire terminal

E: wire connected with quick connect terminal

VI – The terminal of main contact

Blank: Male thread screw terminal

01: Female thread screw terminal

VII –The mounting type of the contactor

A: Botom mounting

S: Side mounting

VIII – Special client code

001-999: range of code number (optional)

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Model(s):

**EVQ600 series, EVQ500 series,
EVQ400 series, EVQX300 series**

Remark:

Description the rule of the designation of the DC contactor:

<u>EVQ</u>	<u>600</u>	<u>E</u>	<u>12</u>	<u>D</u>	<u>01</u>	<u>A</u>	<u>001</u>
I	II	III	IV	V	VI	VII	VIII

I – Basic series designation

EVQ: EVQ series

II - Conventional free air thermal current

X300: 300A

400: 400A

500: 500A

600: 600A

III – Contact Configuration

C: Single pole normally open main contact with polarity

D: Single pole normally open main contact with polarity,
and with single pole normally open auxiliary contact.

E: Single pole normally open main contact without polarity

G: Single pole normally open main contact without polarity,
and with single pole normally open auxiliary contact.

IV – Supply voltage of control part

12: 12VDC

24: 24VDC

1: 12-36VDC

V – The terminal type of control part

D: wire terminal

E: wire connected with quick connect terminal

VI – The terminal of main contact

Blank: Male thread screw terminal

01: Female thread screw terminal

VII –The mounting type of the contactor

A: Botom mounting

S: Side mounting

VIII – Special client code

001-999: range of code number (optional)



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Model(s):

EVQ100 series, EVQ50 series

Remark:

Description the rule of the designation of the DC contactor:

EVQ 100 E 12 D 03 A 001
 I II III IV V VI VII VIII

I – Basic series designation

EVQ: EVQ series

II - Rated current

100: 60A

50: 50A

III – Contact Configuration

C: Single pole normally open main contact with polarity

D: Single pole normally open main contact with polarity, and with single pole normally open auxiliary contact.

E: Single pole normally open main contact without polarity

G: Single pole normally open main contact without polarity, and with single pole normally open auxiliary contact.

IV – Supply voltage of control part

12: 12VDC

24: 24VDC

48: 48VDC

V – The terminal type of control part

D: wire terminal

E: wire connected with quick connect terminal

VI – The terminal of main contact

Blank: Female thread screw terminal

03: Male thread screw terminal

VII – The mounting type of the contactor

A: Bottom mounting

S: Side mounting

VIII – Special client code

001-999: range of code number (optional)

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Parameters:

Main circuit	
Rated Operational Voltage:	See table 1
Rated Operational Current:	See table 1
Conventional Free Air Thermal Current:	See table 1
Utilization Category:	DC-1
Rated Insulation Voltage:	See table 1
Rated Impulse Withstand Voltage:	See table 1
Number of Poles:	1
Overvoltage Category:	II
Pollution Degree:	2 specified by applicant for EVQ600 series, EVQ500 series, EVQ400 series, EVQX300 series, EVQ300 series, EVQ250 series, EVQ200 series, EVQ150 series; 3 (internal 2) for EVQ100 series and EVQ50 series
Type of insulation between control circuit and contact circuit:	Basic insulation
Auxiliary circuit	
Number of circuits:	1
Utilization category: (AC, DC, current and voltage):	For EVQ300 series, EVQ250 series, EVQ200 series, EVQ150 series, EVQ100 series, EVQ50 series: DC-12, 1A 30VDC; For EVQ600 series, EVQ500 series, EVQ400 series, EVQX300 series: DC-13, 2A 30VDC;

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Table 1: Detail information for different models

Model	Rated insulation voltage U_i	Rated operational voltage U_e	Rated impulse withstand voltage U_{imp}	Rated operational current I_e	Conventional free air thermal current I_{th}
EVQ600 series	1500V	750VDC	8kV	200A	600A
EVQ500 series	1500V	750VDC	8kV	200A	500A
EVQ400 series	1500V	750VDC	8kV	200A	400A
EVQX300 series	1500V	750VDC	8kV	200A	300A
EVQ300 series	1000V	200VDC	6kV	300A	400A
EVQ250 series	1000V	200VDC	6kV	250A	400A
EVQ200 series	1000V	200VDC	6kV	200A	400A
EVQ150 series	1000V	200VDC	6kV	150A	400A
EVQ100 series	700V	630VDC	6kV	60A	135A
EVQ50 series	700V	630VDC	6kV	50A	135A

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Table 2: Test ratings for main contacts specified by manufacturer

Item of test	Utilization category	Rated voltage	Rated current	Time constant	Number of operating cycles
For EVQ100 series and EVQ50 series					
Verification of rated making and breaking capacities	DC-1	700VDC	25A	1.05ms	50
Verification of conventional operational performance	DC-1	700VDC	25A	1.11ms	2000*
For EVQ600 series, EVQ500 series, EVQ400 series, EVQX300 series					
Verification of rated making and breaking capacities	DC-1	1000VDC	150A	1.07ms	50
	DC-1	1200VDC	120A	1.05ms	50
	DC-1	1500VDC	100A	1.04ms	50
Verification of conventional operational performance	DC-1	1000VDC	150A	1.07ms	2000*
	DC-1	1200VDC	120A	1.05ms	2000*
	DC-1	1500VDC	100A	1.04ms	2000*
For EVQ300 series, EVQ250 series, EVQ200 series, EVQ150 series					
Verification of rated making and breaking capacities	DC-1	750VDC	100A	1.06ms	50
	DC-1	1000VDC	50A	1.04ms	50
Verification of rated making and breaking capacities	DC-1	750VDC	100A	1.06ms	2000*
	DC-1	1000VDC	50A	1.04ms	2000*
Remark: The numbers with "*" in this table stand for the numbers specified by manufacturer.					

Tested according to: EN 60947-1:2007/A2:2014
 EN IEC 60947-1:2021
 EN IEC 60947-4-1:2019
 EN 60947-5-1:2017