



Product Service

CERTIFICATE

No. B 108738 0003 Rev. 05

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.: 64105213049206

Valid until: 2030-06-08

Date, 2025-06-10

(Martin Ma)

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Model(s):

EVQ600 series, EVQ500 series, EVQ400 series, EVQX300 series:

Description the rule of the designation of the DC contactor:

EVQ 600 E 12 D 01 A 001

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):

EVQ500 with 5 series, EVQ400 with 5 series, EVQ350 with 5 series, EVQ300 with 5 series, EVQ250 with 5 series, EVQ200 with 5 series, EVQ150 with 5 series:

Description the rule of the designation of the DC contactor:

EVQ 500 Y C 12 D 01 A 5 001
I II III IV V VI VII VIII IX X

I – Basic series designation

EVQ: EVQ series

II –Rated operational current only for the rating with rated voltage of 100VDC:

150: 150A

200: 200A

250: 250A

300: 300A

350: 350A

400: 400A

500: 500A

III – Product appearance

Blank: Square shell

Y: Circular gray shell

X: Circular Orange and beige shell

IV – Contact Configuration

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

B: Single pole normally open main contact without polarity, and with change-over 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.

V – Supply voltage of control part

12: 12VDC

24: 24VDC

48: 48VDC

1: 12-36VDC

VI – The terminal type of control part

D: wire terminal

E: wire connected with quick connect terminal

VII – The terminal of main contact

Blank: Male thread screw terminal

01: Female thread screw terminal

VIII –The mounting type of the contactor

A: Botom mounting

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- IX – The number type of enclosure
5: standard dimension type
- X – Special client code
001-999: range of code number(optional)

For EVQ100 series, EVQ50 series:

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 operational 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: Botom mounting

S: Side mounting

VIII – Special client code

001-999: range of code number (optional)

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Parameters:

Main circuit	
Utilization Category:	DC-1
Number of Poles:	1
Overvoltage Category:	II
Type of insulation between coil(s) and contacts	Basic insulation only for EVQ600 series, EVQ500 series, EVQ400 series, EVQX300 series, EVQ100 series, EVQ50 series N/A for EVQ500 with 5 series, EVQ400 with 5 series, EVQ350 with 5 series, EVQ300 with 5 series, EVQ250 with 5 series, EVQ200 with 5 series, EVQ150 with 5 series
Pollution Degree:	2 specified by manufacturer for EVQ600 series, EVQ500 series, EVQ400 series, EVQX300 series, EVQ500 with 5 series, EVQ400 with 5 series, EVQ350 with 5 series, EVQ300 with 5 series, EVQ250 with 5 series, EVQ200 with 5 series, EVQ150 with 5 series 3 (internal 2) for EVQ100 series, EVQ50 series
Rated conditional short-circuit current I _q :	See table 1
Rated prospective short-circuit current "I _r " (kA)	Same as I _q
Type of co-ordination	Type 2
Auxiliary circuit	
Number of circuits:	1 NO or 1NC or 1CO
Utilization category: (AC, DC, current and voltage):	DC-12 1A 30VDC for EVQ500 with 5 series, EVQ400 with 5 series, EVQ350 with 5 series, EVQ300 with 5 series, EVQ250 with 5 series, EVQ200 with 5 series, EVQ150 with 5 series, EVQ100 series, EVQ50 series DC-13 2A 30VDC for EVQ600 series, EVQ500 series, EVQ400 series, EVQX300 series
Control circuit	
Rated control supply voltage U _s :	12/24/12-36VDC for EVQ600 series, EVQ500 series, EVQ400 series, EVQX300 series 12/24/48/12-36VDC for EVQ500 with 5 series, EVQ400 with 5 series, EVQ350 with 5 series, EVQ300 with 5 series, EVQ250 with 5 series, EVQ200 with 5 series, EVQ150 with 5 series 12/24/48VDC for EVQ100 series, EVQ50 series

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Remark:

Table 1: Detail information for different models

Series	Rated insulation voltage U_i (V)	Rated operational voltage U_e (VDC)	Rated impulse withstand voltage U_{imp} (kV)	Rated operational current I_e (A)	Conventional free air thermal current I_{th} (A)	Rated conditional short-circuit current I_q
EVQ600	1500	750	8	200	600	10kA specified by manufacturer
EVQ500	1500	750	8	200	500	
EVQ400	1500	750	8	200	400	
EVQX300	1500	750	8	200	300	
EVQ500 with 5	250	100	2.5	500	500	18kA for rated current 500A, 3kA for rated current 15A specified by manufacturer
	1500	1500	8	15	15	
EVQ400 with 5	250	100	2.5	500	500	
	1500	1500	8	15	15	
EVQ350 with 5	250	100	2.5	500	500	
	1500	1500	8	15	15	
EVQ300 with 5	250	100	2.5	500	500	
	1500	1500	8	15	15	
EVQ250 with 5	250	100	2.5	500	500	
	1500	1500	8	15	15	
EVQ200 with 5	250	100	2.5	500	500	
	1500	1500	8	15	15	
EVQ150 with 5	250	100	2.5	500	500	
	1500	1500	8	15	15	
EVQ100	700	630	6	60	135	5kA specified by manufacturer
EVQ50	700	630	6	50	135	

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The below contact rating specified by manufacturer for EVQ100 series, EVQ50 series, EVQ600 series, EVQ500 series, EVQ400 series and EVQX300 series:

Item of test	Utilization category	Rated voltage	Rated current	Time constant	Number of operating cycles
For EVQ100 series, 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*
The numbers with "*" in this table stand for the numbers specified by manufacturer.					

The below resistive load specified by manufacturer for EVQ500 with 5 series, EVQ400 with 5 series, EVQ350 with 5 series, EVQ300 with 5 series, EVQ250 with 5 series, EVQ200 with 5 series, EVQ150 with 5 series:

Test voltage	Test current	Type of load	Cycles	On/Off time	Ambient Temp.
1000VDC	300A	Resistive load	500breaks	1s/9s	85°C

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