

C E R T I F I C A T E



of Conformity
Low Voltage Directive 2006/95/EC

Registration No.: AN 50230743 0001

Report No.: 15053019 001

Holder: Zhejiang Chint Electrics Co., Ltd.
No.1,
Chint Road, Chint Industrial Zone,
North Baixiang
Yueqing, Zhejiang Province 325603
P.R. China

Product: Magnetic Contactor
(AC Contactors)

Identification: Type Designation: NC2-115 NC2-150 NC2-185 NC2-225
NC2-265 NC2-330 NC2-400 NC2-500
NC2-630
Serial No. : Engineering sample
Remark: Issued in conjunction with TÜV Rheinland license
R 50232989 0001-0009.

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the Licence Holder's disposal. This is to certify that the tested sample is in conformity with all revision of Annex I of Council Directive 2006/95/EC, in its latest amended version, referred to as the Low Voltage Directive. This certificate does not imply assessment of the series-production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to Annex III of the Directive.

Certification Body

Date 26.07.2012


Jie Zhang

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

CE The CE marking may be used if all relevant and effective EC Directives are complied with. CE

Certificate No. R 50232989 0001-0009 **Our Reference** 01-MR-15053019 001 **Appendix No.** 1

Constructional Data Form (CDF) for Electromechanical Contactor


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License holder: Zhejiang Chint Electrics Co., Ltd.

Address: No.1, Chint Road, Chint Industrial Zone, North Baixiang, Yueqing, Zhejiang Province 325603, P.R.China

Type or Model Number: NC2-115, NC2-150, NC2-185, NC2-225, NC2-265, NC2-330, NC2-400, NC2-500, NC2-630

Kind of device: AC Contactors

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Constructional Data Form (CDF) for Electromechanical Contactor

Type designation	NC2-115		NC2-150	
Ambient temperature	-5°C~+40°C		-5°C~+40°C	
Contact material	AgCdO		AgCdO	
Interrupting medium	Air		Air	
Number of poles	3-pole		3-pole	
Utilization category	AC-3		AC-3	
Rated operational voltage	400 V	- V	400 V	- V
Rated operational current	115 A	- A	150 A	- A
Insulation voltage	1000 V		1000 V	
Impulse withstand voltage	8,0 kV		8,0 kV	
Overvoltage category	III		III	
Conventional free air thermal current	200 A		200 A	
Conventional enclosed thermal current	- A		- A	
Frequency	<input checked="" type="checkbox"/> 50 Hz / <input type="checkbox"/> d.c.		<input checked="" type="checkbox"/> 50 Hz / <input type="checkbox"/> d.c.	
Conditional short-circuit current	Ir: 10 kA; Iq: 50,0 kA		Ir: 10 kA; Iq: 50,0 kA	
Co-ordination type	Type 1		Type 1	
Short circuit protective device	NGT1: aR 200 A--NC2-115;NGT1: aR 225 A--NC2-150;			
IP code	IP00 (to front parts)			
Pollution degree	3			
Rated duties	Continuous			
Intermittent duty class	Class 1200			
On-load factor	40%			
Suitability for isolation	//			

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Type designation	NC2-185		NC2-225	
Ambient temperature	-5°C~+40°C		-5°C~+40°C	
Contact material	AgCdO		AgCdO	
Interrupting medium	Air		Air	
Number of poles	3-pole		3-pole	
Utilization category	AC-3		AC-3	
Rated operational voltage	400 V	- V	400 V	- V
Rated operational current	185 A	- A	225 A	- A
Insulation voltage	1000 V		1000 V	
Impulse withstand voltage	8,0 kV		8,0 kV	
Overvoltage category	III		III	
Conventional free air thermal current	275 A		275 A	
Conventional enclosed thermal current	- A		- A	
Frequency	<input checked="" type="checkbox"/> 50 Hz / <input type="checkbox"/> d.c.		<input checked="" type="checkbox"/> 50 Hz / <input type="checkbox"/> d.c.	
Conditional short-circuit current	Ir: 10kA; Iq: 50,0 kA		Ir: 10kA; Iq: 50,0 kA	
Co-ordination type	Type 1		Type 1	
Short circuit protective device	NGT3: aR 315 A			
IP code	IP00 (to front parts)			
Pollution degree	3			
Rated duties	Continuous			
Intermittent duty class	Class 1200			
On-load factor	40%			
Suitability for isolation	//			

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Type designation	NC2-265		NC2-330	
Ambient temperature	-5°C~+40°C		-5°C~+40°C	
Contact material	AgCdO		AgCdO	
Interrupting medium	Air		Air	
Number of poles	3-pole		3-pole	
Utilization category	AC-3		AC-3	
Rated operational voltage	400 V	- V	400 V	- V
Rated operational current	265 A	- A	330 A	- A
Insulation voltage	1000 V		1000 V	
Impulse withstand voltage	8,0 kV		8,0 kV	
Overvoltage category	III		III	
Conventional free air thermal current	315 A		380 A	
Conventional enclosed thermal current	- A		- A	
Frequency	<input checked="" type="checkbox"/> 50 Hz / <input type="checkbox"/> d.c.		<input checked="" type="checkbox"/> 50 Hz / <input type="checkbox"/> d.c.	
Conditional short-circuit current	Ir: 10 kA; Iq: 50,0 kA		Ir: 18 kA; Iq: 50,0 kA	
Co-ordination type	Type 1		Type 1	
Short circuit protective device	NGT3: aR 355 A (NC2-225) , NGT3: aR 450 A (NC2-330)			
IP code	IP00 (to front parts)			
Pollution degree	3			
Rated duties	Continuous			
Intermittent duty class	Class 300			
On-load factor	40%			
Suitability for isolation	//			

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Type designation	NC2-400	
Ambient temperature	-5°C~+40°C	
Contact material	AgCdO	
Interrupting medium	Air	
Number of poles	3-pole	
Utilization category	AC-3	
Rated operational voltage	400 V	- V
Rated operational current	400 A	- A
Insulation voltage	1000 V	
Impulse withstand voltage	8,0 kV	
Overvoltage category	III	
Conventional free air thermal current	450 A	
Conventional enclosed thermal current	- A	
Frequency	<input checked="" type="checkbox"/> 50 Hz / <input type="checkbox"/> d.c.	
Conditional short-circuit current	Ir: 18 kA; Iq: 50,0 kA	
Co-ordination type	Type 1	
Short circuit protective device	NGT3: aR 560 A	
IP code	IP00 (to front parts)	
Pollution degree	3	
Rated duties	Continuous	
Intermittent duty class	Class 300	
On-load factor	40%	
Suitability for isolation	//	

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Type designation	NC2-500	
Ambient temperature	-5°C~+40°C	
Contact material	AgCdO	
Interrupting medium	Air	
Number of poles	3-pole	
Utilization category	AC-3	
Rated operational voltage	400 V	- V
Rated operational current	500 A	- A
Insulation voltage	1000 V	
Impulse withstand voltage	8,0 kV	
Overvoltage category	III	
Conventional free air thermal current	630 A	
Conventional enclosed thermal current	- A	
Frequency	<input checked="" type="checkbox"/> 50 Hz / <input type="checkbox"/> d.c.	
Conditional short-circuit current	Ir: 18,0 kA; Iq: 50,0 kA	
Co-ordination type	Type 1	
Short circuit protective device	NGT3: aR 630	
IP code	IP00 (to front parts)	
Pollution degree	3	
Rated duties	Continuous	
Intermittent duty class	Class 300	
On-load factor	40%	
Suitability for isolation	//	

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Type designation	NC2-630	
Ambient temperature	-5°C~+40°C	
Contact material	AgCdO	
Interrupting medium	Air	
Number of poles	3-pole	
Utilization category	AC-3	
Rated operational voltage	400 V	- V
Rated operational current	630 A	- A
Insulation voltage	1000 V	
Impulse withstand voltage	8,0 kV	
Overvoltage category	III	
Conventional free air thermal current	800 A	
Conventional enclosed thermal current	- A	
Frequency	<input checked="" type="checkbox"/> 50 Hz / <input type="checkbox"/> d.c.	
Conditional short-circuit current	Ir: 18,0 kA; Iq: 50,0 kA	
Co-ordination type	Type 1	
Short circuit protective device	NGT3: aR 800 A	
IP code	IP00 (to front parts)	
Pollution degree	3	
Rated duties	Continuous	
Intermittent duty class	Class 300	
On-load factor	40%	
Suitability for isolation	//	

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Terminals /connection:

Type designation	NC2-115	
Terminal designation, main circuit	1/L1; 2/T1; 3/L2; 4/T2; 5/L3; 6/T3	
Terminal designation, auxiliary circuit	53NO; 54NO; 61NC; 62NC; 71NC; 72NC; 83NO; 84NO	
Terminal designation, control circuit	A1; A2	
Type of terminal, main circuit	Screw terminals	
Type of terminal, auxiliary circuit	Screw terminals	
Type of terminal, control circuit	Screw terminals	
Rated cross sectional area, main circuit	Metric mm ² X N ^o	AWG/kcmil X N ^o
Connectable cross-sections of copper conductors (Ie: 1 A...400 A)	Min. 70 X 1 (150...175 A) Max. 95 X1 (175...200 A)	Min. 00 AWG X 1 (150...175 A) Max. 000 AWG X 1 (175...200 A)
Connectable cross-sections of copper conductors (Ie: 400 A...800 A)	Min. - Max. -	Min. - Max. -
Copper bars (Ie: 400 A...3150 A)	Min. - Max. -	Min. - Max. -
Rated cross sectional area, aux. circuit	Min. 1,5 X 1 (8...12 A) Max. 2,5 X 1 (15...20 A)	Min. 16 AWG X 1 (8...12 A) Max. 12 AWG X 1 (15...20 A)
Rated cross sectional area, control circuit	Min. 1,5 X 1 (8...12 A) Max. 2,5 X 1 (15...20 A)	Min. 16 AWG X 1 (8...12 A) Max. 12 AWG X 1 (15...20 A)
Type of conductor	<input checked="" type="checkbox"/> Rigid <input checked="" type="checkbox"/> Flexible wire <input checked="" type="checkbox"/> copper bars	
Required preparation of the conductor	<input checked="" type="checkbox"/> Prepared <input type="checkbox"/> Unprepared	
Stripping length, main circuit (mm)	-	
Stripping length, auxiliary circuit (mm)	8	
Stripping length, control circuit (mm)	18	
Tightening torque, main circuit (Nm)	3	
Tightening torque, auxiliary circuit (Nm)	0.8	
Tightening torque, control circuit (Nm)	0.8	
Material/plating terminal, main circuit	Silver plated copper	
Material/plating terminal, auxiliary circuit	Zn plated steel	
Material/plating terminal, control circuit	Tin plated copper	
Material/plating of the screw	Zn plated steel	
Material/plating of the washer	Zn plated steel	

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Type designation	NC2-150	
Terminal designation, main circuit	1/L1; 2/T1; 3/L2; 4/T2; 5/L3; 6/T3	
Terminal designation, auxiliary circuit	53NO;54NO;61NC;62NC;71NC;72NC;83NO;84NO	
Terminal designation, control circuit	A1; A2	
Type of terminal, main circuit	Screw terminals	
Type of terminal, auxiliary circuit	Screw terminals	
Type of terminal, control circuit	Screw terminals	
Rated cross sectional area, main circuit	Metric mm ² X N ⁰	AWG/kcmil X N ⁰
Connectable cross-sections of copper conductors (Ie: 1 A...400 A)	Min. 70 X 1 (150..175 A) Max. 95 X1 (175...200 A)	Min. 70 X 1 (150..175 A) Max. 95 X1 (175...200 A)
Connectable cross-sections of copper conductors (Ie: 400 A...800 A)	Min. - Max. -	Min. - Max. -
Copper bars (Ie: 400 A...3150 A)	Min. - Max. -	Min. - Max. -
Rated cross sectional area, aux. circuit	Min. 1,5 X 1 (8...12 A) Max. 2,5 X 1 (15...20 A)	Min. 16 AWG X 1 (8...12 A) Max. 12 AWG X 1 (15...20 A)
Rated cross sectional area, control circuit	Min. 1,5 X 1 (8...12 A) Max. 2,5 X 1 (15...20 A)	Min. 16 AWG X 1 (8...12 A) Max. 12 AWG X 1 (15...20 A)
Type of conductor	<input checked="" type="checkbox"/> Rigid <input checked="" type="checkbox"/> Flexible wire <input checked="" type="checkbox"/> copper bars	
Required preparation of the conductor	<input checked="" type="checkbox"/> Prepared <input type="checkbox"/> Unprepared	
Stripping length, main circuit (mm)	-	
Stripping length, auxiliary circuit (mm)	8	
Stripping length, control circuit (mm)	18	
Tightening torque, main circuit (Nm)	6	
Tightening torque, auxiliary circuit (Nm)	0.8	
Tightening torque, control circuit (Nm)	0.8	
Material/plating terminal, main circuit	Silver plated copper	
Material/plating terminal, auxiliary circuit	Zn plated steel	
Material/plating terminal, control circuit	Tin plated copper	
Material/plating of the screw	Zn plated steel	
Material/plating of the washer	Zn plated steel	


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Type designation	NC2-185	
Terminal designation, main circuit	1/L1; 2/T1; 3/L2; 4/T2; 5/L3; 6/T3	
Terminal designation, auxiliary circuit	53NO;54NO;61NC;62NC;71NC;72NC;83NO;84NO	
Terminal designation, control circuit	A1; A2	
Type of terminal, main circuit	Screw terminals	
Type of terminal, auxiliary circuit	Screw terminals	
Type of terminal, control circuit	Screw terminals	
Rated cross sectional area, main circuit	Metric mm ² X N ⁰	AWG/kcmil X N ⁰
Connectable cross-sections of copper conductors (Ie: 1 A...400 A)	Min. 120 X 1l (225...250 A) Max. 150 X 1(250...275 A)	Min. 250 kcmil X 1 (225...250 A) Max. 300 kcmil X 1 (250...275 A)
Connectable cross-sections of copper conductors (Ie: 400 A...800 A)	Min. - Max. -	Min. - Max. -
Copper bars (Ie: 400 A...3150 A)	Min. - Max. -	Min. - Max. -
Rated cross sectional area, aux. circuit	Min. 1,5 X 1 (8...12 A) Max. 2,5 X 1 (15...20 A)	Min. 16 AWG X 1 (8...12 A) Max. 12 AWG X 1 (15...20 A)
Rated cross sectional area, control circuit	Min. 1,5 X 1 (8...12 A) Max. 2,5 X 1 (15...20 A)	Min. 16 AWG X 1 (8...12 A) Max. 12 AWG X 1 (15...20 A)
Type of conductor	<input checked="" type="checkbox"/> Rigid <input checked="" type="checkbox"/> Flexible wire <input checked="" type="checkbox"/> copper bars	
Required preparation of the conductor	<input checked="" type="checkbox"/> Prepared <input type="checkbox"/> Unprepared	
Stripping length, main circuit (mm)	-	
Stripping length, auxiliary circuit (mm)	8	
Stripping length, control circuit (mm)	18	
Tightening torque, main circuit (Nm)	6	
Tightening torque, auxiliary circuit (Nm)	0.8	
Tightening torque, control circuit (Nm)	0.8	
Material/plating terminal, main circuit	Silver plated copper	
Material/plating terminal, auxiliary circuit	Zn plated steel	
Material/plating terminal, control circuit	Tin plated copper	
Material/plating of the screw	Zn plated steel	
Material/plating of the washer	Zn plated steel	

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Type designation	NC2-225	
Terminal designation, main circuit	1/L1; 2/T1; 3/L2; 4/T2; 5/L3; 6/T3	
Terminal designation, auxiliary circuit	53NO;54NO;61NC;62NC;71NC;72NC;83NO;84NO	
Terminal designation, control circuit	A1; A2	
Type of terminal, main circuit	Screw terminals	
Type of terminal, auxiliary circuit	Screw terminals	
Type of terminal, control circuit	Screw terminals	
Rated cross sectional area, main circuit	Metric mm ² X N ⁰	AWG/kcmil X N ⁰
Connectable cross-sections of copper conductors (Ie: 1 A...400 A)	Min. 120 X 1l (225...250 A) Max. 150 X 1(250...275 A)	Min. 250 kcmil X 1 (225...250 A) Max. 300 kcmil X 1 (250...275 A)
Connectable cross-sections of copper conductors (Ie: 400 A...800 A)	Min. - Max. -	Min. - Max. -
Copper bars (Ie: 400 A...3150 A)	Min. - Max. -	Min. - Max. -
Rated cross sectional area, aux. circuit	Min. 1,5 X 1 (8...12 A) Max. 2,5 X 1 (15...20 A)	Min. 16 AWG X 1 (8...12 A) Max. 12 AWG X 1 (15...20 A)
Rated cross sectional area, control circuit	Min. 1,5 X 1 (8...12 A) Max. 2,5 X 1 (15...20 A)	Min. 16 AWG X 1 (8...12 A) Max. 12 AWG X 1 (15...20 A)
Type of conductor	<input checked="" type="checkbox"/> Rigid <input checked="" type="checkbox"/> Flexible wire <input checked="" type="checkbox"/> copper bars	
Required preparation of the conductor	<input checked="" type="checkbox"/> Prepared <input type="checkbox"/> Unprepared	
Stripping length, main circuit (mm)	-	
Stripping length, auxiliary circuit (mm)	8	
Stripping length, control circuit (mm)	18	
Tightening torque, main circuit (Nm)	10	
Tightening torque, auxiliary circuit (Nm)	0.8	
Tightening torque, control circuit (Nm)	0.8	
Material/plating terminal, main circuit	Silver plated copper	
Material/plating terminal, auxiliary circuit	Zn plated steel	
Material/plating terminal, control circuit	Tin plated copper	
Material/plating of the screw	Zn plated steel	
Material/plating of the washer	Zn plated steel	

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Type designation	NC2-265	
Terminal designation, main circuit	1/L1; 2/T1; 3/L2; 4/T2; 5/L3; 6/T3	
Terminal designation, auxiliary circuit	53NO;54NO;61NC;62NC;71NC;72NC;83NO;84NO	
Terminal designation, control circuit	A1; A2	
Type of terminal, main circuit	Screw terminals	
Type of terminal, auxiliary circuit	Screw terminals	
Type of terminal, control circuit	Screw terminals	
Rated cross sectional area, main circuit	Metric mm ² X N ⁰	AWG/kcmil X N ⁰
Connectable cross-sections of copper conductors (Ie: 1 A...400 A)	Min. 185 X 1 (275...300 A) Max. 240 X 1 (350...400 A)	Min. 350 kcmil X 1 (275...300 A) Max. 500 kcmil X 1 (350...400 A)
Connectable cross-sections of copper conductors (Ie: 400 A...800 A)	Min. - Max. -	Min. - Max. -
Copper bars (Ie: 400 A...3150 A)	Min. - Max. -	Min. - Max. -
Rated cross sectional area, aux. circuit	Min. 1,5 X 1 (8...12 A) Max. 2,5 X 1 (15...20 A)	Min. 16 AWG X 1 (8...12 A) Max. 12 AWG X 1 (15...20 A)
Rated cross sectional area, control circuit	Min. 1,5 X 1 (8...12 A) Max. 2,5 X 1 (15...20 A)	Min. 16 AWG X 1 (8...12 A) Max. 12 AWG X 1 (15...20 A)
Type of conductor	<input checked="" type="checkbox"/> Rigid <input checked="" type="checkbox"/> Flexible wire <input checked="" type="checkbox"/> copper bars	
Required preparation of the conductor	<input checked="" type="checkbox"/> Prepared <input type="checkbox"/> Unprepared	
Stripping length, main circuit (mm)	-	
Stripping length, auxiliary circuit (mm)	8	
Stripping length, control circuit (mm)	18	
Tightening torque, main circuit (Nm)	10	
Tightening torque, auxiliary circuit (Nm)	0.8	
Tightening torque, control circuit (Nm)	0.8	
Material/plating terminal, main circuit	Silver plated copper	
Material/plating terminal, auxiliary circuit	Zn plated steel	
Material/plating terminal, control circuit	Tin plated copper	
Material/plating of the screw	Zn plated steel	
Material/plating of the washer	Zn plated steel	

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Type designation	NC2-330	
Terminal designation, main circuit	1/L1; 2/T1; 3/L2; 4/T2; 5/L3; 6/T3	
Terminal designation, auxiliary circuit	53NO;54NO;61NC;62NC;71NC;72NC;83NO;84NO	
Terminal designation, control circuit	A1; A2	
Type of terminal, main circuit	Screw terminals	
Type of terminal, auxiliary circuit	Screw terminals	
Type of terminal, control circuit	Screw terminals	
Rated cross sectional area, main circuit	Metric mm ² X N ⁰	AWG/kcmil X N ⁰
Connectable cross-sections of copper conductors (Ie: 1 A...400 A)	Min. 185 X 1 (275...300 A) Max. 240 X 1 (350...400 A)	Min. 350 kcmil X 1 (275...300 A) Max. 500 kcmil X 1 (350...400 A)
Connectable cross-sections of copper conductors (Ie: 400 A...800 A)	Min. - Max. -	Min. - Max. -
Copper bars (Ie: 400 A...3150 A)	Min. - Max. -	Min. - Max. -
Rated cross sectional area, aux. circuit	Min. 1,5 X 1 (8...12 A) Max. 2,5 X 1 (12...15 A)	Min. 18 AWG X 1 (0...8 A) Max. 14 AWG X 1 (12...15 A)
Rated cross sectional area, control circuit	Min. 1,5 X 1 (8...12 A) Max. 2,5 X 1 (12...15 A)	Min. 18 AWG X 1 (0...8 A) Max. 14 AWG X 1 (12...15 A)
Type of conductor	<input checked="" type="checkbox"/> Rigid <input checked="" type="checkbox"/> Flexible wire <input checked="" type="checkbox"/> copper bars	
Required preparation of the conductor	<input checked="" type="checkbox"/> Prepared <input type="checkbox"/> Unprepared	
Stripping length, main circuit (mm)	-	
Stripping length, auxiliary circuit (mm)	8	
Stripping length, control circuit (mm)	18	
Tightening torque, main circuit (Nm)	10	
Tightening torque, auxiliary circuit (Nm)	0.8	
Tightening torque, control circuit (Nm)	0.8	
Material/plating terminal, main circuit	Silver plated copper	
Material/plating terminal, auxiliary circuit	Zn plated steel	
Material/plating terminal, control circuit	Tin plated copper	
Material/plating of the screw	Zn plated steel	
Material/plating of the washer	Zn plated steel	

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Type designation	NC2-400	
Terminal designation, main circuit	1/L1; 2/T1; 3/L2; 4/T2; 5/L3; 6/T3	
Terminal designation, auxiliary circuit	53NO;54NO;61NC;62NC;71NC;72NC;83NO;84NO	
Terminal designation, control circuit	A1; A2	
Type of terminal, main circuit	Screw terminals	
Type of terminal, auxiliary circuit	Screw terminals	
Type of terminal, control circuit	Screw terminals	
Rated cross sectional area, main circuit	Metric mm ² X N ⁰	AWG/kcmil X N ⁰
Connectable cross-sections of copper conductors (Ie: 1 A...400 A)	Min. 240 X 1 (350...400 A) Max. -	Min. 500 kcmil X 1 (350...400 A) Max. -
Connectable cross-sections of copper conductors (Ie: 400 A...800 A)	Min. - Max. 150 X 2 (400...500 A)	Min. - Max. 250 kcmil X 2 (400...500 A)
Copper bars (Ie: 400 A...3150 A)	Min. - Max. 30 X 5 X 2 (400...500 A)	Min. - Max. 1 X 0,25 inch X 2 (400...500 A)
Rated cross sectional area, aux. circuit	Min. 1,5 X 1 (8...12 A) Max. 2,5 X 1 (12...15 A)	Min. 18 AWG X 1 (0...8 A) Max. 14 AWG X 1 (12...15 A)
Rated cross sectional area, control circuit	Min. 1,5 X 1 (8...12 A) Max. 2,5 X 1 (12...15 A)	Min. 18 AWG X 1 (0...8 A) Max. 14 AWG X 1 (12...15 A)
Type of conductor	<input checked="" type="checkbox"/> Rigid <input checked="" type="checkbox"/> Flexible wire <input checked="" type="checkbox"/> copper bars	
Required preparation of the conductor	<input checked="" type="checkbox"/> Prepared <input type="checkbox"/> Unprepared	
Stripping length, main circuit (mm)	-	
Stripping length, auxiliary circuit (mm)	8	
Stripping length, control circuit (mm)	16	
Tightening torque, main circuit (Nm)	10	
Tightening torque, auxiliary circuit (Nm)	0.8	
Tightening torque, control circuit (Nm)	0.8	
Material/plating terminal, main circuit	Silver plated copper	
Material/plating terminal, auxiliary circuit	Zn plated steel	
Material/plating terminal, control circuit	Tin plated copper	
Material/plating of the screw	Zn plated steel	
Material/plating of the washer	Zn plated steel	

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Type designation	NC2-500	
Terminal designation, main circuit	1/L1; 2/T1; 3/L2; 4/T2; 5/L3; 6/T3	
Terminal designation, auxiliary circuit	53NO;54NO;61NC;62NC;71NC;72NC;83NO;84NO	
Terminal designation, control circuit	A1; A2	
Type of terminal, main circuit	Screw terminals	
Type of terminal, auxiliary circuit	Screw terminals	
Type of terminal, control circuit	Screw terminals	
Rated cross sectional area, main circuit	Metric mm ² X N ⁰	AWG/kcmil X N ⁰
Connectable cross-sections of copper conductors (Ie: 1 A...400 A)	Min. - Max. -	Min. - Max. -
Connectable cross-sections of copper conductors (Ie: 400 A...800 A)	Min. 150 X 2 (400...500 A) Max. 185 X 2 (500...630 A)	Min. 250 kcmil X 2 (400...500 A) Max. 350 kcmil X 2 (500...630 A)
Copper bars (Ie: 400 A...3150 A)	Min. 30 X 5 X 2 (400...500 A) Max. 40 X 5 X 2 (500...630 A)	Min. 1 X 0,25 inch X 2 (400...500 A) Max. 1,25 X 0,25 inch X 2 (500...630 A)
Rated cross sectional area, aux. circuit	Min. 1,5 X 1 (8...12 A) Max. 2,5 X 1 (12...15 A)	Min. 18 AWG X 1 (0...8 A) Max. 14 AWG X 1 (12...15 A)
Rated cross sectional area, control circuit	Min. 1,5 X 1 (8...12 A) Max. 2,5 X 1 (12...15 A)	Min. 18 AWG X 1 (0...8 A) Max. 14 AWG X 1 (12...15 A)
Type of conductor	<input checked="" type="checkbox"/> Rigid <input checked="" type="checkbox"/> Flexible wire <input checked="" type="checkbox"/> copper bars	
Required preparation of the conductor	<input checked="" type="checkbox"/> Prepared <input type="checkbox"/> Unprepared	
Stripping length, main circuit (mm)	-	
Stripping length, auxiliary circuit (mm)	8	
Stripping length, control circuit (mm)	16	
Tightening torque, main circuit (Nm)	10	
Tightening torque, auxiliary circuit (Nm)	0.8	
Tightening torque, control circuit (Nm)	0.8	
Material/plating terminal, main circuit	Silver plated copper	
Material/plating terminal, auxiliary circuit	Zn plated steel	
Material/plating terminal, control circuit	Tin plated copper	
Material/plating of the screw	Zn plated steel	
Material/plating of the washer	Zn plated steel	

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Type designation	NC2-630	
Terminal designation, main circuit	1/L1; 2/T1; 3/L2; 4/T2; 5/L3; 6/T3	
Terminal designation, auxiliary circuit	53NO;54NO;61NC;62NC;71NC;72NC;83NO;84NO	
Terminal designation, control circuit	A1; A2	
Type of terminal, main circuit	Screw terminals	
Type of terminal, auxiliary circuit	Screw terminals	
Type of terminal, control circuit	Screw terminals	
Rated cross sectional area, main circuit	Metric mm ² X N ⁰	AWG/kcmil X N ⁰
Connectable cross-sections of copper conductors (Ie: 1 A...400 A)	Min. - Max. -	Min. - Max. -
Connectable cross-sections of copper conductors (Ie: 400 A...800 A)	Min. 185 X 2 (500...630 A) Max. 240 X 2 (630...800 A)	Min. 350 kcmil X 2 (500...630 A) Max. 300 kcmil X 3 (630...800 A)
Copper bars (Ie: 400 A...3150 A)	Min. 40 X 5 X 2 (500...630 A) Max. 50 X 5 X 2 (630...800 A)	Min. 1,25 X 0,25 inch X 2 (500...630 A) Max. 1,5 X 0,25 inch X 2 (630...800 A)
Rated cross sectional area, aux. circuit	Min. 1,5 X 1 (8...12 A) Max. 2,5 X 1 (12...15 A)	Min. 18 AWG X 1 (0...8 A) Max. 14 AWG X 1 (12...15 A)
Rated cross sectional area, control circuit	Min. 1,5 X 1 (8...12 A) Max. 2,5 X 1 (12...15 A)	Min. 18 AWG X 1 (0...8 A) Max. 14 AWG X 1 (12...15 A)
Type of conductor	<input checked="" type="checkbox"/> Rigid <input checked="" type="checkbox"/> Flexible wire <input checked="" type="checkbox"/> copper bars	
Required preparation of the conductor	<input checked="" type="checkbox"/> Prepared <input type="checkbox"/> Unprepared	
Stripping length, main circuit (mm)	-	
Stripping length, auxiliary circuit (mm)	8	
Stripping length, control circuit (mm)	16	
Tightening torque, main circuit (Nm)	14	
Tightening torque, auxiliary circuit (Nm)	0.8	
Tightening torque, control circuit (Nm)	0.8	
Material/plating terminal, main circuit	Silver plated copper	
Material/plating terminal, auxiliary circuit	Zn plated steel	
Material/plating terminal, control circuit	Tin plated copper	
Material/plating of the screw	Zn plated steel	
Material/plating of the washer	Zn plated steel	

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Control circuit (coil): NC2-115, NC2-150

Insulation class	Class B
Kind of current/rated frequency	50/60Hz
Rated control circuit voltage	AC 110V
Rated control supply voltage	AC 110V
Coil resistance / turns / diameter	6,38 ohm / 599 (+/-6) / 0,53 mm

Insulation class	Class B
Kind of current/rated frequency	50/60Hz
Rated control circuit voltage	AC 127V
Rated control supply voltage	AC 127V
Coil resistance / turns / diameter	9,14 ohm / 691 (+/-7) / 0,49 mm

Insulation class	Class B
Kind of current/rated frequency	50/60Hz
Rated control circuit voltage	AC 220V
Rated control supply voltage	AC 220V
Coil resistance / turns / diameter	28,1 ohm / 998 (+/-10) / 0,37 mm

Insulation class	Class B
Kind of current/rated frequency	50/60Hz
Rated control circuit voltage	AC 380V
Rated control supply voltage	AC 380V
Coil resistance / turns / diameter	86,9 ohm / 2068 (+/-20) / 0,28 mm

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Control circuit (coil): NC2-185, NC2-225

Insulation class	Class B
Kind of current/rated frequency	50/60Hz
Rated control circuit voltage	AC 110V
Rated control supply voltage	AC 110V
Coil resistance / turns / diameter	4,18 ohm / 500 (+/-5) / 0,53 mm

Insulation class	Class B
Kind of current/rated frequency	50/60Hz
Rated control circuit voltage	AC 127V
Rated control supply voltage	AC 127V
Coil resistance / turns / diameter	5,35 ohm / 566 (+/-6) / 0,47 mm

Insulation class	Class B
Kind of current/rated frequency	50/60Hz
Rated control circuit voltage	AC 220V
Rated control supply voltage	AC 220V
Coil resistance / turns / diameter	16,5 ohm / 980 (+/-9) / 0,35 mm

Insulation class	Class B
Kind of current/rated frequency	50/60Hz
Rated control circuit voltage	AC 380V
Rated control supply voltage	AC 380V
Coil resistance / turns / diameter	51,3 ohm / 1692 (+/-17) / 0,27 mm

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Control circuit (coil): NC2-225

Insulation class	Class B
Kind of current/rated frequency	50/60Hz
Rated control circuit voltage	AC 110V
Rated control supply voltage	AC 110V
Coil resistance / turns / diameter	2,56 ohm / 340 (+/-3) / 0,77 mm

Insulation class	Class B
Kind of current/rated frequency	50/60Hz
Rated control circuit voltage	AC 127V
Rated control supply voltage	AC 127V
Coil resistance / turns / diameter	9,55 ohm / 680 (+/-6) / 0,56 mm

Insulation class	Class B
Kind of current/rated frequency	50/60Hz
Rated control circuit voltage	AC 220V
Rated control supply voltage	AC 220V
Coil resistance / turns / diameter	29,3 ohm / 1175 (+/-11) / 0,42 mm

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Control circuit (coil): NC2-330

Insulation class	Class B
Kind of current/rated frequency	50/60Hz
Rated control circuit voltage	AC 110V
Rated control supply voltage	AC 110V
Coil resistance / turns / diameter	20 ohm / 595 (+/-6) / 0,51 mm (starting solenoid)
Coil resistance / turns / diameter	440 ohm / 2600 (+/-26) / 0,18 mm (maintain solenoid)

Insulation class	Class B
Kind of current/rated frequency	50/60Hz
Rated control circuit voltage	AC 127V
Rated control supply voltage	AC 127V
Coil resistance / turns / diameter	23 ohm / 745 (+/-7) / 0,49 mm (starting solenoid)
Coil resistance / turns / diameter	540 ohm / 3250 (+/-33) / 0,16 mm (maintain solenoid)

Insulation class	Class B
Kind of current/rated frequency	50/60Hz
Rated control circuit voltage	AC 220V
Rated control supply voltage	AC 220V
Coil resistance / turns / diameter	60 ohm / 1390 (+/-14) / 0,35 mm (starting solenoid)
Coil resistance / turns / diameter	1500 ohm / 5320 (+/-54) / 0,125 mm (maintain solenoid)

Insulation class	Class B
Kind of current/rated frequency	50/60Hz
Rated control circuit voltage	AC 380V
Rated control supply voltage	AC 380V
Coil resistance / turns / diameter	220 ohm / 2300 (+/-23) / 0,27 mm (starting solenoid)
Coil resistance / turns / diameter	4600 ohm / 9780 (+/-98) / 0,09 mm (maintain solenoid)

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Control circuit (coil): NC2-400

Insulation class	Class B
Kind of current/rated frequency	50/60Hz
Rated control circuit voltage	AC 110V
Rated control supply voltage	AC 110V
Coil resistance / turns / diameter	9 ohm / 640 (+/-7) / 0,60 mm (starting solenoid)
Coil resistance / turns / diameter	220 ohm / 3250 (+/-33) / 0,25 mm (maintain solenoid)

Insulation class	Class B
Kind of current/rated frequency	50/60Hz
Rated control circuit voltage	AC 127V
Rated control supply voltage	AC 127V
Coil resistance / turns / diameter	13 ohm / 750 (+/-7) / 0,56 mm (starting solenoid)
Coil resistance / turns / diameter	280 ohm / 3750 (+/-33) / 0,23 mm (maintain solenoid)

Insulation class	Class B
Kind of current/rated frequency	50/60Hz
Rated control circuit voltage	AC 220V
Rated control supply voltage	AC 220V
Coil resistance / turns / diameter	38 ohm / 1300 (+/-13) / 0,42 mm (starting solenoid)
Coil resistance / turns / diameter	900 ohm / 6630 (+/-67) / 0,17 mm (maintain solenoid)

Insulation class	Class B
Kind of current/rated frequency	50/60Hz
Rated control circuit voltage	AC 380V
Rated control supply voltage	AC 380V
Coil resistance / turns / diameter	125 ohm / 2300 (+/-23) / 0,31 mm (starting solenoid)
Coil resistance / turns / diameter	2500 ohm / 11300 (+/-115) / 0,13 mm (maintain solenoid)

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Control circuit (coil): NC2-500

Insulation class	Class B
Kind of current/rated frequency	50/60Hz
Rated control circuit voltage	AC 110V
Rated control supply voltage	AC 110V
Coil resistance / turns / diameter	10 ohm / 580 (+/-6) / 0,63 mm (starting solenoid)
Coil resistance / turns / diameter	260 ohm / 3010 (+/-31) / 0,25 mm (maintain solenoid)

Insulation class	Class B
Kind of current/rated frequency	50/60Hz
Rated control circuit voltage	AC 127V
Rated control supply voltage	AC 127V
Coil resistance / turns / diameter	12 ohm / 680 (+/-7) / 0,60 mm (starting solenoid)
Coil resistance / turns / diameter	315 ohm / 3460 (+/-35) / 0,23 mm (maintain solenoid)

Insulation class	Class B
Kind of current/rated frequency	50/60Hz
Rated control circuit voltage	AC 220V
Rated control supply voltage	AC 220V
Coil resistance / turns / diameter	36 ohm / 1180 (+/-12) / 0,45 mm (starting solenoid)
Coil resistance / turns / diameter	900 ohm / 5600 (+/-56) / 0,18 mm (maintain solenoid)

Insulation class	Class B
Kind of current/rated frequency	50/60Hz
Rated control circuit voltage	AC 380V
Rated control supply voltage	AC 380V
Coil resistance / turns / diameter	102 ohm / 2020 (+/-21) / 0,33 mm (starting solenoid)
Coil resistance / turns / diameter	1960 ohm / 9387 (+/-94) / 0,14 mm (maintain solenoid)

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Control circuit (coil): NC2-630

Insulation class	Class B
Kind of current/rated frequency	50/60Hz
Rated control circuit voltage	AC 110V
Rated control supply voltage	AC 110V
Coil resistance / turns / diameter	5 ohm / 440 (+/-5) / 0,71 mm (starting solenoid)
Coil resistance / turns / diameter	270 ohm / 2378 (+/-24) / 0,20 mm (maintain solenoid)

Insulation class	Class B
Kind of current/rated frequency	50/60Hz
Rated control circuit voltage	AC 127V
Rated control supply voltage	AC 127V
Coil resistance / turns / diameter	8 ohm / 544 (+/-5) / 0,64 mm (starting solenoid)
Coil resistance / turns / diameter	205 ohm / 3200 (+/-32) / 0,18 mm (maintain solenoid)

Insulation class	Class B
Kind of current/rated frequency	50/60Hz
Rated control circuit voltage	AC 220V
Rated control supply voltage	AC 220V
Coil resistance / turns / diameter	25 ohm / 980 (+/-9) / 0,47 mm (starting solenoid)
Coil resistance / turns / diameter	1250 ohm / 5470 (+/-54) / 0,14 mm (maintain solenoid)

Insulation class	Class B
Kind of current/rated frequency	50/60Hz
Rated control circuit voltage	AC 380V
Rated control supply voltage	AC 380V
Coil resistance / turns / diameter	68 ohm / 1650 (+/-16) / 0,37 mm (starting solenoid)
Coil resistance / turns / diameter	4193 ohm / 9450 (+/-94) / 0,1 mm (maintain solenoid)

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Auxiliary circuit:

Type designation	F4	F4
Contact material	AgNi10	AgNi10
Contact form	Form X; Form Y	Form X; Form Y
Utilization category	AC-15 (60947-5-1)	DC-13 (60947-5-1)
Operational voltage	400 V	230 V
Operational current	0,95 A	0,15 A
Insulation voltage	690 V	690 V
Conventional thermal current	10 A	10 A
Conditional short-circuit current	1000 A	1000 A
Short circuit protective device	NT00: aR 10 A	NT00: aR 10 A

Plastic insulating parts:

Part name	Material name / Manufacturer	PTI (V)	Flame class	Material Group
Base	BMC / Zhejiang Sonthern Plastic Co.,Ltd	600 V	94V-0	IIIa
(alternative)	BMC / Zhejiang Yueqing SMC & BMC Manufacture Factory	600 V	94V-0	IIIa
Bobbin	A3X2G5 / BASF	350 V	94V-0	IIIa
Cover	PA6 / Zhejiang Juner High Polymer Materials Co. Ltd.	225 V	94V-0	IIIa
(alternative)	K222-KGV4/DSM ENGINEERING PLASTICS B V	550 V	94V-0	IIIa

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