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REVISIONS

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	GCF#524670 INITIAL RELEASE	NOV./05/2021	D. ZHANG

49.6

44.6

35±0.5

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CIRCUIT SCHEMATIC DIAGRAM

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DCNLH200XXXX

Rated Oper. Voltage: 20VDC

Rated Current: 200A

Rated Coil Voltage: 20VDC

MADE IN CHINA

2×M8 CONTACT STUD

23.4

123.5

2×6.3±0.2

18±0.4

2×6.3×0.8 COIL LUG PLATE

A (SEE TABLE 2)

B (SEE TABLE 2)

C (SEE TABLE 2)

43.1

12.7

16±0.3

25.4±0.3

8×M5-6H MOUNTING THREADED HOLE

TABLE 2

PRODUCT NUMBER	"A"	"B"	"C"
DCNLH200PD12	DCNLH200PD12	Rated Oper. Voltage: 96VDC	Rated Coil Voltage: 12VDC
DCNLH200PD24	DCNLH200PD24	Rated Oper. Voltage: 96VDC	Rated Coil Voltage: 24VDC
DCNLH200PD48	DCNLH200PD48	Rated Oper. Voltage: 96VDC	Rated Coil Voltage: 48VDC
DCNLH200NB12	DCNLH200NB12	Rated Oper. Voltage: 48VDC	Rated Coil Voltage: 12VDC
DCNLH200NB24	DCNLH200NB24	Rated Oper. Voltage: 48VDC	Rated Coil Voltage: 24VDC
DCNLH200NB48	DCNLH200NB48	Rated Oper. Voltage: 48VDC	Rated Coil Voltage: 48VDC

TECHNICAL PARAMETERS 1

ITEM		PARAMETER								
		DCNLH200PD12	DCNLH200PD24	DCNLH200PD48	DCNLH200NB12	DCNLH200NB24	DCNLH200NB48			
RATED COIL VOLTAGE		12V DC	24V DC	48V DC	12V DC	24V DC	48V DC			
HOLD POWER		MAX 55W	MAX 29W	MAX 27W	MAX 55W	MAX 29W	MAX 27W			
OPERATING VOLTAGE IN COLD STATE AT (20±5)°C	PICK-UP(V DC)	MAX 8.4	MAX 16.8	MAX 33.6	MAX 8.4	MAX 16.8	MAX 33.6			
	RELEASE(V DC)	MAX 8.4	MAX 16.8	MAX 33.6	MAX 8.4	MAX 16.8	MAX 33.6			
OPERATE TIME		MAX 40ms								
BOUNCE TIME		MAX 7ms								
CONTACT VOLTAGE DROP		≤50mV@100 A								
DIELECTRIC STRENGTH		1000V AC, 50Hz,1min., LEAKAGE CURRENT ≤1 mA								
INSULATION RESISTANCE		≥50MΩ@500VDC								
RATED CONTACT VOLTAGE		96V DC			48V DC					
MAXIMUM CONTACT VOLTAGE		110V DC			60V DC					
RATED CONTACT CURRENT		200A								
LIMIT BREAKING ABILITY		4le/5ms,1CYCLES								
ELECTRIC LIFE		6000 CYCLES								
MECHANICAL LIFE		100,000 CYCLES								

NOTES:

1. ALL SIZES ARE FOR REFERENCE ONLY.

2. MATERIALS AND FINISHING:

2.1 BASE: PHENOLPLASTIC, UL94V-0.

2.2 CONTACTS: SILVER ALLOY.

2.3 STUD: COPPER ROD.

2.4 COIL LUG PLATE: BRASS STRIP.

3. PRODUCT TECHNICAL PARAMETERS: SEE TABLE 1.

4. PRODUCT AND NAMEPLATE(THE CHARACTER CONTENT AT "A", "B" AND "C") CONFIGURATION SEE TABLE 2.

5. CONTACT ARRANGEMENT: SPST-NO.

6. PRODUCT COIL IS ACTIVATED BY POSITIVE AND NEGATIVE PULSE(SQUARE PULSE), 200ms≤t≤1s, THE PERMANENT MAGNET IN PRODUCT KEEPS THE STATE OF THE CONTACT, LONG TIME CONTINUOUS ENERGIZING IS NOT ALLOWED. AND POSITIVE PULSE MAKES THE CONTACT CLOSE, WHILE NEGATIVE PULSE MAKES THE CONTACT OPEN.

7. CONNECTION STUD: M8 STUD, RECOMMENDED TORQUE: 8 N·m ~ 9 N·m.

8. MOUNTING: M5 BOLT, RECOMMENDED TORQUE: 4 N·m-5 N·m.

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PRODUCT NUMBER	"A"	"B"	"C"
DCNLH200PD12	DCNLH200PD12	Rated Oper. Voltage: 96VDC	Rated Coil Voltage: 12VDC
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DCNLH200PD48	DCNLH200PD48	Rated Oper. Voltage: 96VDC	Rated Coil Voltage: 48VDC
DCNLH200NB12	DCNLH200NB12	Rated Oper. Voltage: 48VDC	Rated Coil Voltage: 12VDC
DCNLH200NB24	DCNLH200NB24	Rated Oper. Voltage: 48VDC	Rated Coil Voltage: 24VDC
DCNLH200NB48	DCNLH200NB48	Rated Oper. Voltage: 48VDC	Rated Coil Voltage: 48VDC

TECHNICAL PARAMETERS 1

ITEM		PARAMETER								
		DCNLH200PD12	DCNLH200PD24	DCNLH200PD48	DCNLH200NB12	DCNLH200NB24	DCNLH200NB48			
RATED COIL VOLTAGE		12V DC	24V DC	48V DC	12V DC	24V DC	48V DC			
HOLD POWER		MAX 55W	MAX 29W	MAX 27W	MAX 55W	MAX 29W	MAX 27W			
OPERATING VOLTAGE IN COLD STATE AT (20±5)°C	PICK-UP(V DC)	MAX 8.4	MAX 16.8	MAX 33.6	MAX 8.4	MAX 16.8	MAX 33.6			
	RELEASE(V DC)	MAX 8.4	MAX 16.8	MAX 33.6	MAX 8.4	MAX 16.8	MAX 33.6			
OPERATE TIME		MAX 40ms								
BOUNCE TIME		MAX 7ms								
CONTACT VOLTAGE DROP		≤50mV@100 A								
DIELECTRIC STRENGTH		1000V AC, 50Hz,1min., LEAKAGE CURRENT ≤1 mA								
INSULATION RESISTANCE		≥50MΩ@500VDC								
RATED CONTACT VOLTAGE		96V DC			48V DC					
MAXIMUM CONTACT VOLTAGE		110V DC			60V DC					
RATED CONTACT CURRENT		200A								
LIMIT BREAKING ABILITY		4le/5ms,1CYCLES								
ELECTRIC LIFE		6000 CYCLES								
MECHANICAL LIFE		100,000 CYCLES								

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7. CONNECTION STUD: M8 STUD, RECOMMENDED TORQUE: 8 N·m ~ 9 N·m.

8. MOUNTING: M5 BOLT, RECOMMENDED TORQUE: 4 N·m-5 N·m.

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8×M5-6H MOUNTING THREADED HOLE

TABLE 2

PRODUCT NUMBER	"A"	"B"	"C"
DCNLH200PD12	DCNLH200PD12	Rated Oper. Voltage: 96VDC	Rated Coil Voltage: 12VDC
DCNLH200PD24	DCNLH200PD24	Rated Oper. Voltage: 96VDC	Rated Coil Voltage: 24VDC
DCNLH200PD48	DCNLH200PD48	Rated Oper. Voltage: 96VDC	Rated Coil Voltage: 48VDC
DCNLH200NB12	DCNLH200NB12	Rated Oper. Voltage: 48VDC	Rated Coil Voltage: 12VDC
DCNLH200NB24	DCNLH200NB24	Rated Oper. Voltage: 48VDC	Rated Coil Voltage: 24VDC
DCNLH200NB48	DCNLH200NB48	Rated Oper. Voltage: 48VDC	Rated Coil Voltage: 48VDC

TECHNICAL PARAMETERS 1

ITEM		PARAMETER								
		DCNLH200PD12	DCNLH200PD24	DCNLH200PD48	DCNLH200NB12	DCNLH200NB24	DCNLH200NB48			
RATED COIL VOLTAGE		12V DC	24V DC	48V DC	12V DC	24V DC	48V DC			
HOLD POWER		MAX 55W	MAX 29W	MAX 27W	MAX 55W	MAX 29W	MAX 27W			
OPERATING VOLTAGE IN COLD STATE AT (20±5)°C	PICK-UP(V DC)	MAX 8.4	MAX 16.8	MAX 33.6	MAX 8.4	MAX 16.8	MAX 33.6			
	RELEASE(V DC)	MAX 8.4	MAX 16.8	MAX 33.6	MAX 8.4	MAX 16.8	MAX 33.6			
OPERATE TIME		MAX 40ms								
BOUNCE TIME		MAX 7ms								
CONTACT VOLTAGE DROP		≤50mV@100 A								
DIELECTRIC STRENGTH		1000V AC, 50Hz,1min., LEAKAGE CURRENT ≤1 mA								
INSULATION RESISTANCE		≥50MΩ@500VDC								
RATED CONTACT VOLTAGE		96V DC			48V DC					
MAXIMUM CONTACT VOLTAGE		110V DC			60V DC					
RATED CONTACT CURRENT		200A								
LIMIT BREAKING ABILITY		4le/5ms,1CYCLES								
ELECTRIC LIFE		6000 CYCLES								
MECHANICAL LIFE		100,000 CYCLES								

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7. CONNECTION STUD: M8 STUD, RECOMMENDED TORQUE: 8 N·m ~ 9 N·m.

8. MOUNTING: M5 BOLT, RECOMMENDED TORQUE: 4 N·m-5 N·m.

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Rated Oper. Voltage: 20VDC

Rated Current: 200A

Rated Coil Voltage: 20VDC

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8×M5-6H MOUNTING THREADED HOLE

TABLE 2

PRODUCT NUMBER	"A"	"B"	"C"
DCNLH200PD12	DCNLH200PD12	Rated Oper. Voltage: 96VDC	Rated Coil Voltage: 12VDC
DCNLH200PD24	DCNLH200PD24	Rated Oper. Voltage: 96VDC	Rated Coil Voltage: 24VDC
DCNLH200PD48	DCNLH200PD48	Rated Oper. Voltage: 96VDC	Rated Coil Voltage: 48VDC
DCNLH200NB12	DCNLH200NB12	Rated Oper. Voltage: 48VDC	Rated Coil Voltage: 12VDC
DCNLH200NB24	DCNLH200NB24	Rated Oper. Voltage: 48VDC	Rated Coil Voltage: 24VDC
DCNLH200NB48	DCNLH200NB48	Rated Oper. Voltage: 48VDC	Rated Coil Voltage: 48VDC

TECHNICAL PARAMETERS 1

ITEM		PARAMETER								
		DCNLH200PD12	DCNLH200PD24	DCNLH200PD48	DCNLH200NB12	DCNLH200NB24	DCNLH200NB48			
RATED COIL VOLTAGE		12V DC	24V DC	48V DC	12V DC	24V DC	48V DC			
HOLD POWER		MAX 55W	MAX 29W	MAX 27W	MAX 55W	MAX 29W	MAX 27W			
OPERATING VOLTAGE IN COLD STATE AT (20±5)°C	PICK-UP(V DC)	MAX 8.4	MAX 16.8	MAX 33.6	MAX 8.4	MAX 16.8	MAX 33.6			
	RELEASE(V DC)	MAX 8.4	MAX 16.8	MAX 33.6	MAX 8.4	MAX 16.8	MAX 33.6			
OPERATE TIME		MAX 40ms								
BOUNCE TIME		MAX 7ms								
CONTACT VOLTAGE DROP		≤50mV@100 A								
DIELECTRIC STRENGTH		1000V AC, 50Hz,1min., LEAKAGE CURRENT ≤1 mA								
INSULATION RESISTANCE		≥50MΩ@500VDC								
RATED CONTACT VOLTAGE		96V DC			48V DC					
MAXIMUM CONTACT VOLTAGE		110V DC			60V DC					
RATED CONTACT CURRENT		200A								
LIMIT BREAKING ABILITY		4le/5ms,1CYCLES								
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Rated Current: 200A

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8×M5-6H MOUNTING THREADED HOLE

TABLE 2

PRODUCT NUMBER	"A"	"B"	"C"
DCNLH200PD12	DCNLH200PD12	Rated Oper. Voltage: 96VDC	Rated Coil Voltage: 12VDC
DCNLH200PD24	DCNLH200PD24	Rated Oper. Voltage: 96VDC	Rated Coil Voltage: 24VDC
DCNLH200PD48	DCNLH200PD48	Rated Oper. Voltage: 96VDC	Rated Coil Voltage: 48VDC
DCNLH200NB12	DCNLH200NB12	Rated Oper. Voltage: 48VDC	Rated Coil Voltage: 12VDC
DCNLH200NB24	DCNLH200NB24	Rated Oper. Voltage: 48VDC	Rated Coil Voltage: 24VDC
DCNLH200NB48	DCNLH200NB48	Rated Oper. Voltage: 48VDC	Rated Coil Voltage: 48VDC

TECHNICAL PARAMETERS 1

ITEM		PARAMETER					
		DCNLH200PD12	DCNLH200PD24	DCNLH200PD48	DCNLH200NB12	DCNLH200NB24	DCNLH200NB48
RATED COIL VOLTAGE		12V DC	24V DC	48V DC	12V DC	24V DC	48V DC
HOLD POWER		MAX 55W	MAX 29W	MAX 27W	MAX 55W	MAX 29W	