

### Feature

- Unique magnetic arc extinguishing design with 1500V cut-off function.
- Unique contact structure with higher surge resistance and current tolerance.
- Environmentally friendly products (RoHS compliant).
- Load connection without polarity.
- Unique anti short circuit structure,Short circuit resistance:20A~40A:/; 60A~100A:≥4000A; 150A~1000A:≥8000A.
- High and low voltage withstand voltage above 4000V.
- The coil connections are all non-polar(60A~100A). The coil can be energy-saving, and the energy-saving coil is connected with polarity(150A~1000A).

#### Model and Meaning

C8 DC - 10	000 / 1000 - XX - H A C 5 - 3	
		<ul> <li>Coil characteristics: 3-PWM energy-saving type</li> <li>Main contact lead out form: 5-internal thread</li> <li>Form of coil lead out end: C-connector</li> <li>Auxiliary contact form: A:normally open; Q: QC lead out end</li> <li>Main contact form: H-normally open</li> <li>Coil Voltage</li> <li>Load Voltage</li> <li>Load Current</li> <li>Direct Current</li> <li>Product design serial number</li> </ul>

#### Environmental Characteristics

Ohash	Stability test	196m/s²(20G)
Shock	Strength test	490m/s²(50G)
Resistance	e to vibration	10Hz~200Hz,5G
Operating amb	vient temperature	-40°C ~+85°C
Operating an	nbient humidity	5%~85% RH
IP (	Grade	IP67(inner space)
Alt	itude	≪4000m

# YCC8DC series high-voltage DC contactor

Model	YCC8DC- 20	YCC8DC- 40	YCC8DC- 60	YCC8DC- 100	YCC8DC- 150	YCC8DC- 200	YCC8DC- 250	YCC8DC- 300	YCC8DC- 400	YCC8DC- 500	YCC8DC- 600	YCC8DC- 800	YCC8DC 1000
Structure							н						
Contact Material	Silver	ralloy					Silve	r copper	alloy				
Contact resistance		ōmΩ 1A)	≪0.5mΩ (@60A)	≪0.5mΩ (@100A)	≪0.3mΩ (@150A)	≪0.3mΩ (@200A)	≪0.3mΩ (@250A)	≪0.3mΩ (@300A)	≪0.2mΩ (@400A)	≪0.2mΩ (@500A)	≪0.2mΩ (@600A)	≤0.3mΩ (@800A)	≤0.15mΩ (@1000A
Contact pressure drop							/						
Rated Load	DC1000V 20A	DC1000V 40A	DC1500V 60A	DC1500V 100A	DC1500V 150A	DC1500V 200A	DC1500V 250A	DC1500V 300A	DC1500V 400A	DC1500V 500A	DC1500V 600A	DC1500V 800A	DC1500 1000A
0.111	20A/ 1000V 10000times	20A/1000V 10000times											
Switching electrical lifespan	20A/ 750V 20000times	20A/750V 20000times	60A/450V 50000times						/				
	40A/ 450V 1000times	40A/450V 1000times											
			60A,450V 70000times	100A,450V 50000times					Steady state	Steady state	Steady state	Steady state	Steady stat
Power on lifespan	20A,1500V 20000times	40A,450V 25000times	60A,750V 50000times	100A,750V 30000times	/	/	/	/	400A, C=1100	500A, C=1100	600A, C=1100	800A, C=1100 37.5V, 20000	800A, C=110
			60A,1500V 8000times	100A,1500V 5000times					times	times	times	times	times
Impact electrical life	1	1	/	/	150A/1500 µ F 20V, 100000 cycles	200A/1500 µ F 20V, 100000	20V, 100000	300A/1500 µ F 20V, 50000	1	/	1	1	1
olocilocilica					1500A/500V 50 times	cycles	cycles	cycles					
					20A,1500V 15000times	20A,1500V 15000times	20A,1500V 15000times	20A,1500V 15000times	400A,1500V 200times	500A,1500V 100times	600A,1500V 50times	800A,1000V 50times	1000A,750 50times
			100times	50times	80A,1500V 500times	80A,1500V 500times	80A,1500V 500times	80A,1500V 500times	400A,1000V 500times	500A,1000V 200times	600A,1000V 100times	750A,1500V	800A,1000 50times
Power outage lifespan	200A,300V 1times	200A,300V 1times	200A,450V 50times	200A,450V 50times	150A,1000V 1000times		250A,1000V 1000times	300A,1000V 500times	400A,750V 1000times	500A,750V 500times	600A,750V 200times	100times 1000A,1500V	750A,1500 100time:
			600A,450V	600A,450V	150A,1500V 100times	200A,1500V 100times	250A,1500V 100times	250A,1500V 100times	2000A,1000V 1times	2000A,1000V 1times	2000A,1000V 1times	1times	1000A,1500 1times
			1times	1times	1000A,1500V 1times	1000A,1500V 1times	1000A,1500V 1times	1000A,1500V 1times	1000A,1500V 1times	1000A,1500V 1times	1000A,1500V 1times	2000A,1000V 1times	2000A,1000 1times
Short-circuit Current	/	/	4000A ( 5ms) 1times	4000A ( 5ms) 1times	6000A ( 5ms) 1times	8000A ( 5ms) 1times	8000A(5ms) 1times	8000A ( 5ms) 1times	8000A ( 5ms) 1times	8000A ( 5ms) 1times	8000A(5ms) 1times	8000A ( 5ms) 1times	8000A(5m 1times
Rated current	20A	40A	60A	100A	150A	200A	250A	300A	400A	500A	600A	800A	1000A
Minimum load current							6V/1A						
Mechanical durability				2	00000 tim	nes (0.5 s	econds or	n and 0.5 s	seconds o	ff)			-

	Model	YCC8DC- 20	YCC8DC- 40	YCC8DC- 60	YCC8DC- 100	YCC8DC- 150	YCC8DC 200	YCC8DC- 250	YCC8DC- 300	YCC8DC- 400	YCC8DC- 500	YCC8DC- 600	YCC8DC- 800	YCC8D0 1000				
	Between coils and contacts					Δ	bove 1	000M Ω	!									
Insulation Resistance	I Ketween same	/	/								/		Above 1000MΩ	/				
	Between main and auxiliary contacts	/	Above 1000MΩ		1					Above 1000MΩ								
	Between coils and contacts		AC4000V for 1 minute															
Resistance Voltage esistance E a a Wi impul Ac Rele	Between same pole contacts	/	/		AC4000V for 1 minute						1		for 1	/				
	Between main and auxiliary contactsand auxiliary contacts	/	AC4000V for 1 minute		1	Above 1000M Ω         /         Above 1000M Ω           Above 1000M Ω         /         Above 1000M Ω           1000M Ω         /         Above 1000M Ω           Above 1000M Ω         Above 1000M Ω         Above 1000M Ω           AC4000V for 1 minute         /         AC4000V for 1 minute												
	Vithstand JIse voltage		1	,	10kV (1	.2 x 50	µs)bet	ween co	oil and c	contact								
A	ction time						Below	30ms										
Re	elease time						Below	10ms										
Suc	tion rebound						Below	/ 5ms										
	ating ambient mperature			-4	0~+85°	C (with	out fre	ezing oı	r conde	ensatior	ר)							
Operati	ng environment humidity						5%~85%RH											

Auxiliary contact par	amete	rs											
Model	YCC8DC- 20	YCC8DC- 40	YCC8DC- 60	YCC8DC- 100	YCC8DC- 150	YCC8DC- 200	YCC8DC- 250	YCC8DC- 300	YCC8DC- 400	YCC8DC- 500	YCC8DC- 600	YCC8DC- 800	YCC8DC- 1000
Structure			1						А				
Contact Resistance		1	1					≤100	)mΩ (@	0.1A)			
Rated Load			1					D	C12V 0.1	IA			
<sup>!</sup> Switching electrical lifespan			/					DC12V 0	.1A 100	00times			

# YCC8DC series high-voltage DC contactor

Model	YCC8DC-20			YCC8DC-40			Y	CC8DC-6	60	YCC8DC-100		
Rated voltage (Vd. c.)	12	24	PWM type	12	24	PWM type	12	24	PWM type	12	24	PWM type
Action voltage (Vd. c.)	≤9	≤18	/	≤9	≤18	/	≤9	≤18	/	≤9	≤18	1
Working voltage (Vd. c.)	9~14	18~28	/	9~14	18~28	/	9~16	18~32	/	9~16	18~32	/
Release voltage (Vd. c.)	≥1	≥2	/	≥1	≥2	/	≥1	≥2	/	≥1	≥2	1
Coil resistance ( $\Omega$ ) (1 ± 7%)	55.4	221.6	/	48	192	/	27.7	111	/	27.7	111	/
Starting current (A)	0.22	0.11	/	0.25	0.125	/	0.43	0.22	/	0.43	0.22	/
Start time (ms)	/	/	/	/	/	/	/	/	/	/	1	/
Rated current (A)	0.22	0.11	/	0.25	0.125	/	0.43	0.22	/	0.43	0.22	/
Starting power consumption (W)	2.6	2.6	/	3	3	/	5.2	5.2	/	5.2	5.2	/
Steady state power consumption (W)	2.6	2.6	/	3	3	/	5.2	5.2	/	5.2	5.2	1

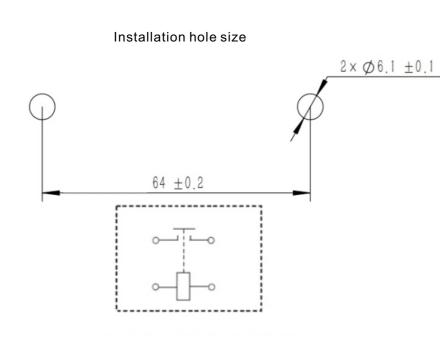
Coil Parameters															
Model	YC	C8DC-	150	YC	YCC8DC-200			YCC8DC-250			YCC8DC-300			C8DC-	400
Rated voltage (Vd. c.)	12	24	PWM type	12	24	PWM type	12	24	PWM type	12	24	PWM type	12/24	/	/
Action voltage (Vd. c.)	≤9	≤18	≤9	≤9	≤18	≤9	≤9	≤18	≤9	≤9	≤18	≤9	≤9	/	/
Working voltage (Vd. c.)	9~16	18~32	9~36	9~16	18~32	9~36	9~16	18~32	9~36	9~16	18~32	9~36	9~36	/	/
Release voltage (Vd. c.)	≥1	≥2	≥5	≥1	≥2	≥5	≥1	≥2	≥5	≥1	≥2	≥5	≥5	/	/
Coil resistance ( $\Omega$ ) (1 ± 7%)	24	96	3.1	24	96	3.1	24	96	3.1	24	96	3.1	3.1	/	/
Starting current (A)	0.5	0.25	3.8	0.5	0.25	3.8	0.5	0.25	3.8	0.5	0.25	3.8	3.8	/	/
Start time (ms)	1	1	≤150	1	1	≤150	/	/	≤150	/	/	≤150	≤150	/	/
Rated current (A)	0.5	0.25	0.2	0.5	0.25	0.2	0.5	0.25	0.2	0.5	0.25	0.2	0.33	/	/
Starting power consumption (W)	6	6	46	6	6	46	6	6	46	6	6	46	48	/	/
Steady state power consumption (W)	6	6	2.5	6	6	2.5	6	6	2.5	6	6	2.5	4	/	1

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Coil Parameters												
Model	YC	C8DC-5	00	YC	C8DC-6	00	YC	C8DC-8	00	YCC8DC-1000		
Rated voltage (Vd. c.)	12/24	/	/	12/24	/	/	12/24	/	/	12/24	/	1
Action voltage (Vd. c.)	≤9	/	/	≤9	/	/	≤9	/	/	≤9	/	1
Working voltage (Vd. c.)	9~36	/	1	9~36	/	/	9~36	/	/	9~36	/	1
Release voltage (Vd. c.)	≥5	/	/	≥5	/	/	≥5	/	/	≥5	/	/
Coil resistance ( $\Omega$ ) (1 ± 7%)	3.1	/	1	3.1	/	/	3.1	/	/	3.1	/	/
Starting current (A)	3.8	/	1	3.8	/	/	3.8	/	/	3.8	/	/
Start time (ms)	≤150	/	1	≤150	/	/	≤150	/	/	≤150	/	/
Rated current (A)	0.33	/	1	0.33	/	/	0.33	/	/	0.33	/	/
Starting power consumption (W)	48	/	1	48	/	/	48	/	/	48	/	/
Steady state power consumption (W)	4	/	1	4	/	/	4	/	/	4	/	/

### Product appearance, installation, and wiring diagram

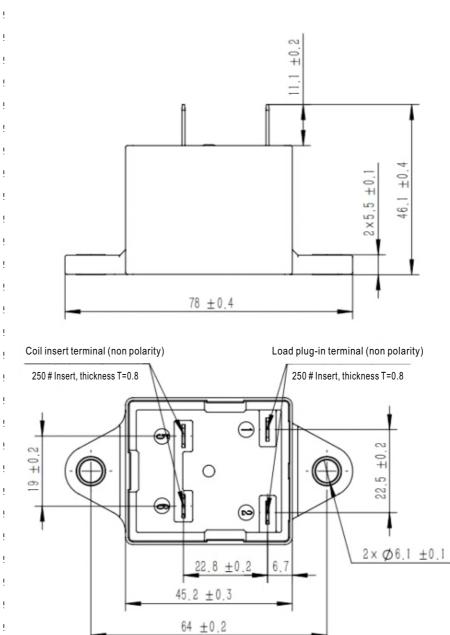
YCC8DC-20~40 Product appearance, installation, and wiring diagram

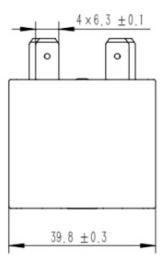


The load and coil are non-polar

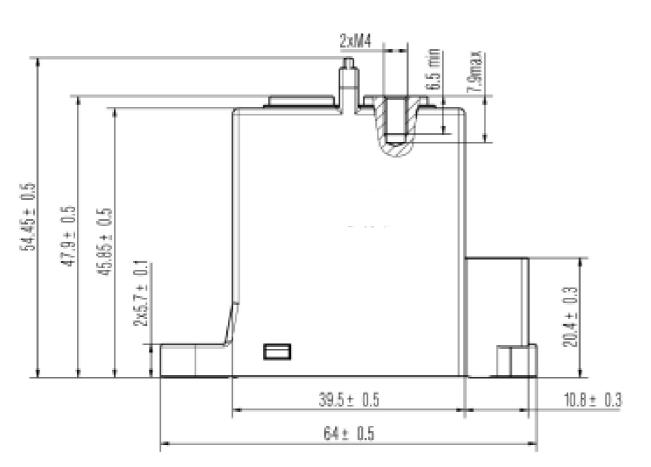
# YCC8DC series high-voltage DC contactor

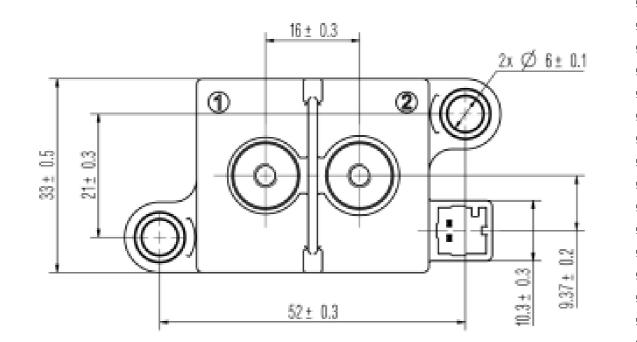
### YCC8DC-20~40 Product appearance, installation, and wiring diagram





YCC8DC-60~100 Product appearance, installation, and wiring diagram

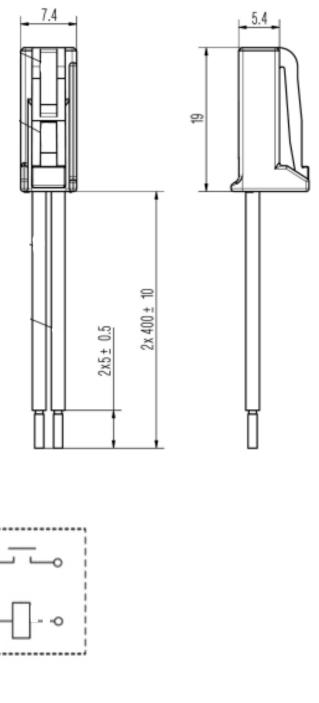


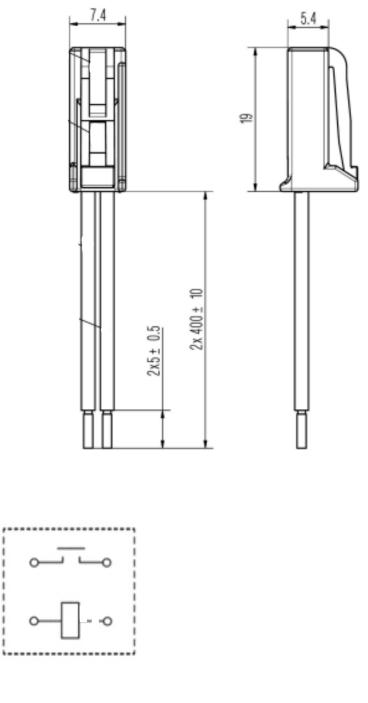


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YCC8DC series high-voltage DC contactor

YCC8DC-60~100 Product appearance, installation, and wiring diagram

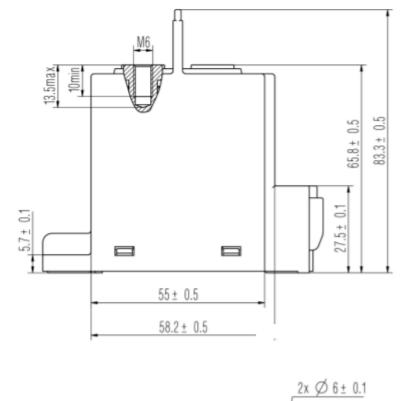


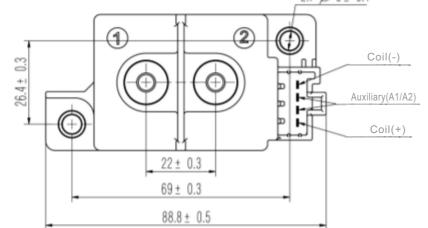


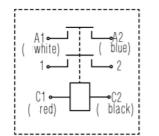
Note: No polarity on the load and coil

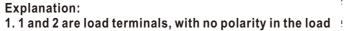


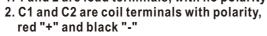
#### YCC8DC-150~300 Product appearance, installation, and wiring diagram











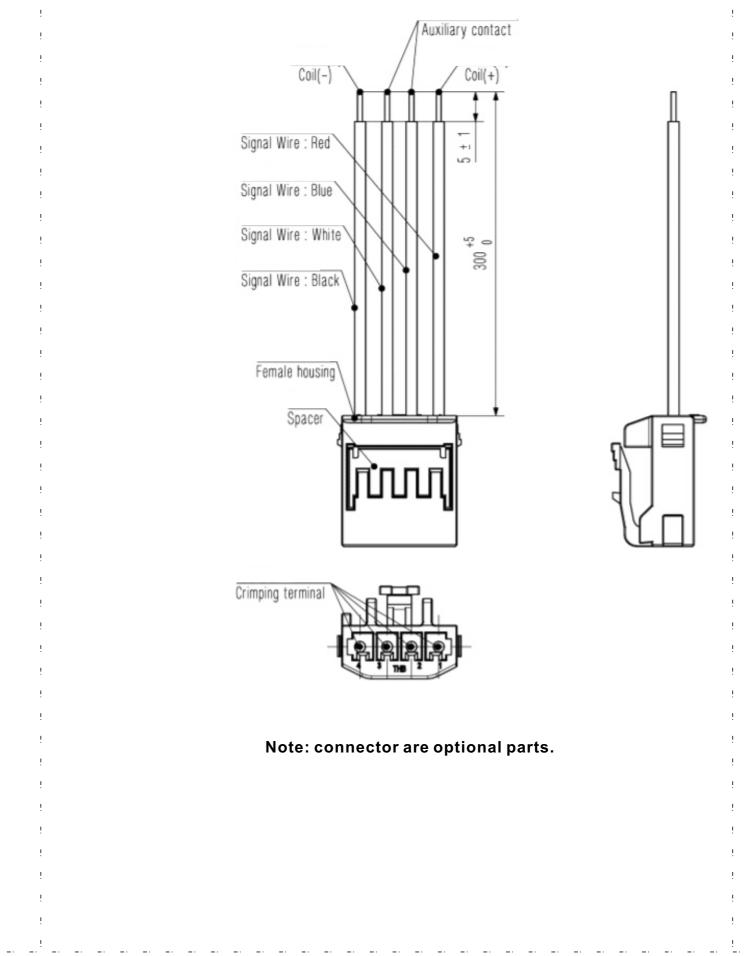
- 3. A1 and A2 are auxiliary contacts, and the auxiliary contacts have no polarity

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43± 0.5

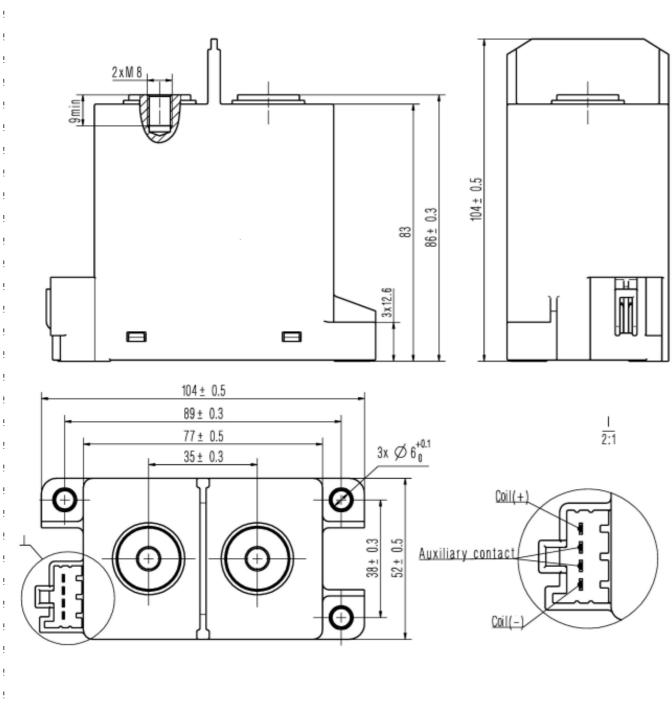
## YCC8DC series high-voltage DC contactor

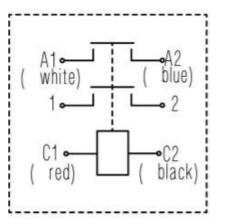
YCC8DC-150~300 Product appearance, installation, and wiring diagram





YCC8DC-400~600 Product appearance, installation, and wiring diagram





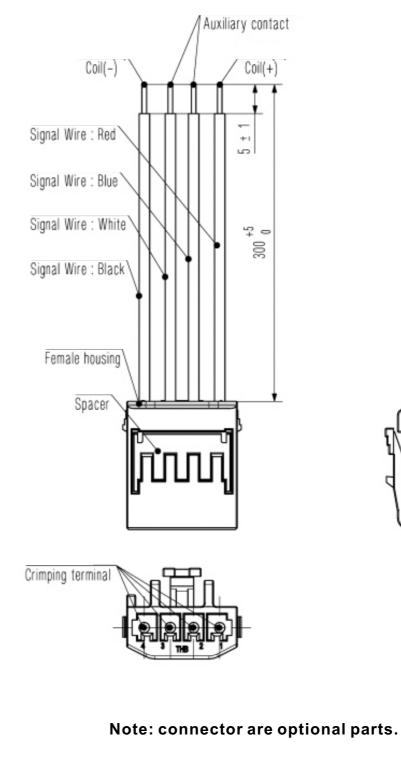
#### Explanation:

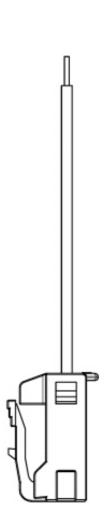
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- 1. 1 and 2 are load terminals, with no polarity in the load
   2. C1 and C2 are coil terminals with polarity, red "+" and black "-"
- 3. A1 and A2 are auxiliary contacts, and the auxiliary contacts have no polarity

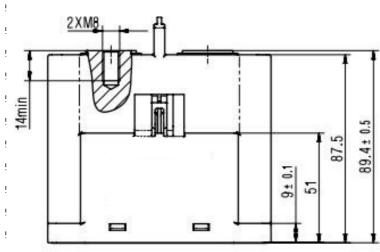
## YCC8DC series high-voltage DC contactor

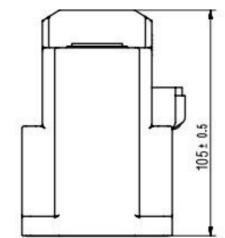
#### YCC8DC-400~600 Product appearance, installation, and wiring diagram

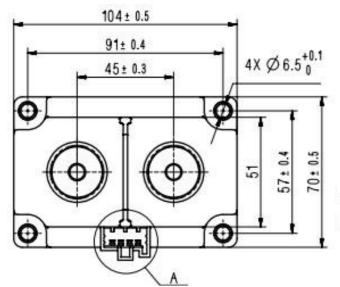




YCC8DC-800~1000 Product appearance, installation, and wiring diagram

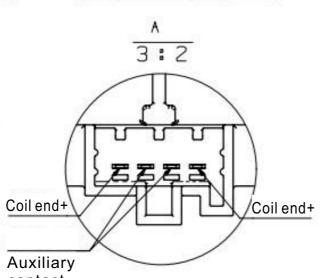




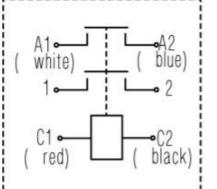


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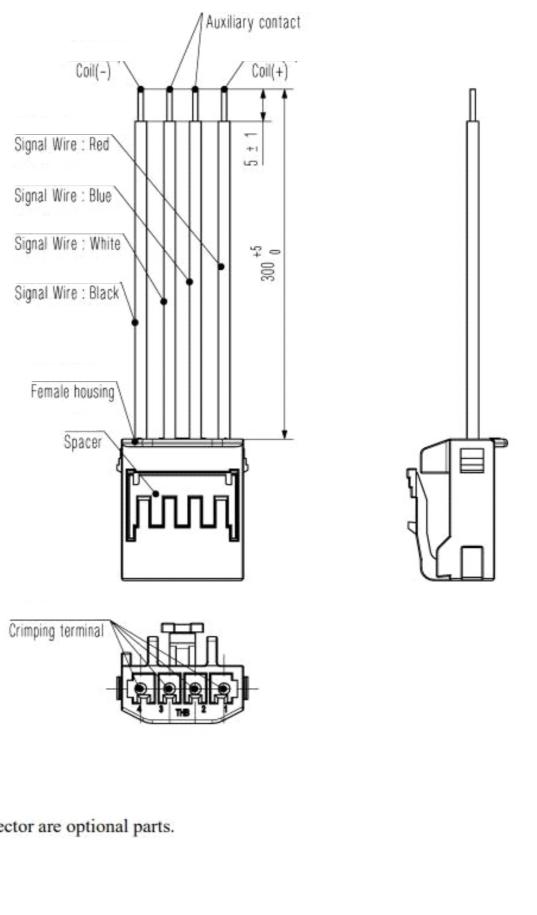
#### Explanation:

1. 1 and 2 are load terminals, with no polarity in the load 2. C1 and C2 are coil terminals with polarity, red "+" and black "-"

3. A1 and A2 are auxiliary contacts, and the auxiliary contacts have no polarity

## YCC8DC series high-voltage DC contactor

YCC8DC-800~1000 Product appearance, installation, and wiring diagram



Note: connector are optional parts.