



CQM5 Series
New Energy Power Distribution Products
PRODUCT CATALOG

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CQM5HU Series

Molded Case Circuit Breaker



Product Features

- Up to AC1140V
Suitable for high-voltage AC distribution applications up to AC1140V.
- Wide Current Range
Rated current range from 63A to 630A with 320A and 630A frame sizes.
- Overload & Short-Circuit Protection
Provides reliable protection against overload and short-circuit faults.
- Isolation Function
Designed with an isolation function for circuit safety and maintenance.
- Flexible Operation
Supports direct handle operation and optional manual operating mechanism.

Type designation



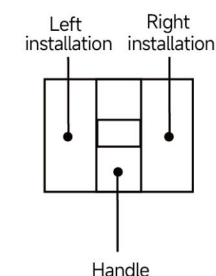
No.	Code	Description
①	CQ	Company Code
②	M	Molded Case Circuit Breaker
③	5	Design Code
④	HU	Derivative Code
⑤	320 / 630	Frame Size
⑥	M / —	Breaking Capacity Code: M = Standard Type; "—" for 630
⑦	3	Number of Poles: 3P
⑧	2/3	Release Code: 2 = Magnetic Only; 3 = Thermal-Magnetic
⑨	□	Internal Accessory Code: See Accessory Code Reference
⑩	□	Operating Mode: Direct Handle / CS1-A Manual Operating Mechanism / CD2 Motor Operating Mechanism
⑪	□	Rated Current
⑫	□	Rated Voltage: AC800V / AC1140V
⑬	□	Accessory Voltage / Specification

Operating Conditions

Operating Altitude	≤ 2500 m
Ambient Temperature	−35°C to +70°C
Derating	Required above +40°C
Storage Temperature	−40°C to +75°C
Relative Humidity	≤ 50% at +40°C; up to 90% at +20°C
Pollution Degree	3
Protection Degree	IP20
Installation	Vertical or horizontal
Vertical Installation Inclination	≤ 5°

Accessory List

Model number	CQM5HU-320	CQM5HU-630
Accessory code		
0	None	
10	Shunt Release	
20	Dual Auxiliary Contact	
21	Single Auxiliary Contact	
40	Shunt Release + Dual Auxiliary Contact	
41	Shunt Release + Single Auxiliary Contact	
60	Two Sets of Dual Auxiliary Contacts	
61	Two Sets of Single Auxiliary Contacts	
62	Dual Auxiliary Contact + Single Auxiliary Contact	
8	Alarm Contact	
18	Shunt Release + Alarm Contact	
28	Dual Auxiliary Contact + Alarm Contact	
48	Shunt Release + Auxiliary Alarm Contact	
58	Auxiliary Alarm Contact	
68	Dual Auxiliary Contact + Auxiliary Alarm Contact	



- Shunt release
- Dual-auxiliary contact
- Auxiliary alarm contact
- Single auxiliary contact
- Alarm contact

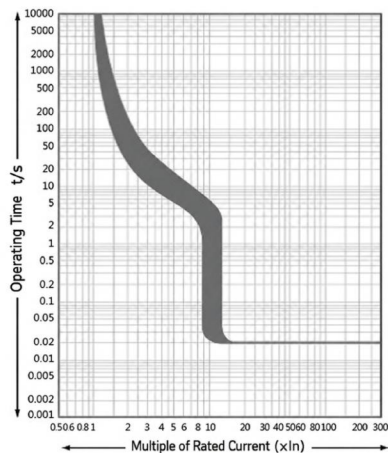
Technical Specifications

Parameter	CQM5HU-320	CQM5HU-630
Frame Size (A)	320	630
Rated Current In (A)	63, 80, 100, 125, 140, 160, 180, 200, 225, 250, 280, 315, 320	250, 315, 350, 400, 500, 630
Number of Poles	3P	3P
Rated Operational Voltage Ue (V)	AC800 / AC1140	AC800 / AC1140
Rated Insulation Voltage Ui (V)	1250	1250
Rated Impulse Withstand Voltage Uimp (kV)	12	12
Breaking Capacity Class	M	—
Ics = 100% Icu @ AC800V (kA)	50	65
Ics = 100% Icu @ AC1140V (kA)	15	20
Electrical Operations @ AC800V	1,500	1,000
Electrical Operations @ AC1140V	1,000	800
Mechanical Operations	15,000	15,000
Ambient Temperature	-35°C to +70°C*	-35°C to +70°C*
Normal Operating Altitude	≤ 2500 m	≤ 2500 m
Relative Humidity	≤50% at +40°C; up to 90% at +20°C	≤50% at +40°C; up to 90% at +20°C
Pollution Degree	3	3
Installation Category	III (Main Circuit) / II (Other)	III
Degree of Protection	IP20	IP20
Terminal Screw	M8	M10
Terminal Tightening Torque	12 N·m	35 N·m
Mounting Screw	M4	M4 / M3
Mounting Tightening Torque	1.5 N·m	1.5 / 0.8 N·m
Dimensions (L × W × H) mm	264 × 120 × 103	275 × 110 × 170
Standards	IEC 60947-2, GB/T 14048.2	IEC 60947-2, GB/T 14048.2
Certification	CCC、CE、TÜV、CB	CCC

Recommended Conductor Cross-Section

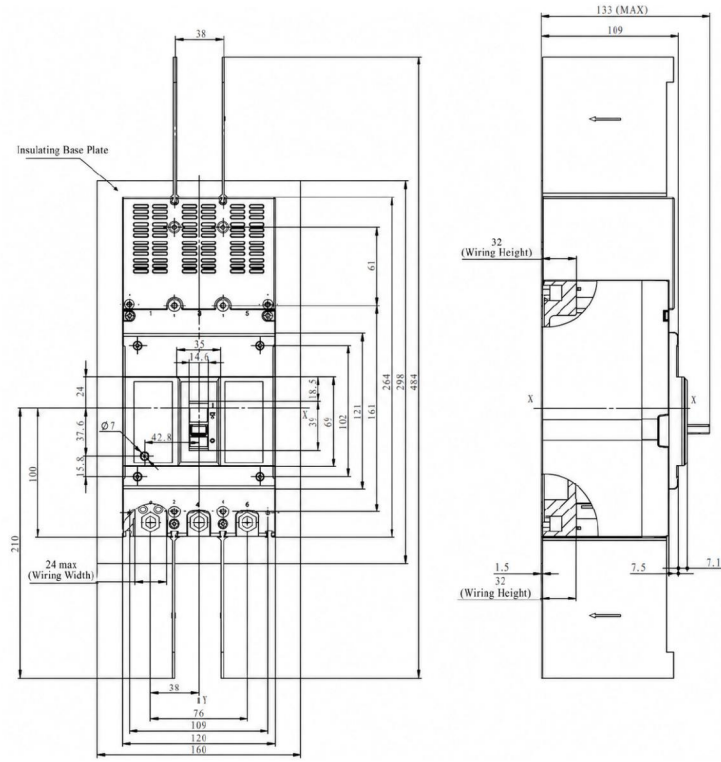
Rated Current In (A)	63	80	100	125	140/160	180/200/225	250	315	320/350	400	500	630
Conductor Cross-Section (mm²)	16	25	35	50	70	95	120	185	185	240	2×150	2×240

Time-current characteristic curve

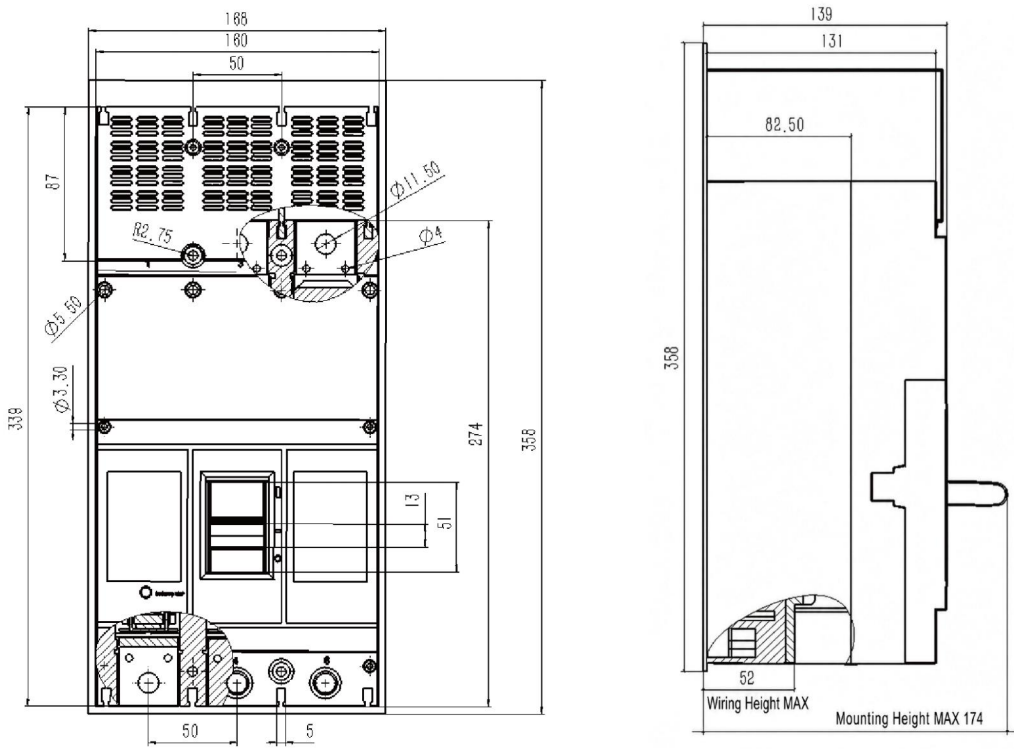


Overall and mounting dimensions

CQM5HU-320



CQM5HU-630



CQM5NEZ Series
DC Molded Case Circuit Breaker



Product Features

- Up to DC1500V
Designed for DC systems with rated operational voltage up to DC1500V.
- Wide Current Range
Rated current from 63A to 630A with 350A and 630A frame sizes.
- High Breaking Capacity
Breaking capacity up to 30kA at DC1500V for the CQM5NEZ-350 H type.
- Reliable Circuit Protection
Provides overload and short-circuit protection for DC circuits and power equipment.
- Flexible Operation
Direct handle operation and optional rotary operating mechanisms are available.

Type designation

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No.	Code	Description
①	CQ	Company Code
②	M	Molded Case Circuit Breaker
③	5	Design Code
④	NEZ	New Energy – DC
⑤	350 / 630	Frame Size
⑥	M / H	Breaking Capacity Code: M = Standard Type; H = High Breaking Type
⑦	2	Number of Poles: 2P
⑧	2 / 3	Release Code: 2 = Magnetic Only; 3 = Thermal-Magnetic
⑨		Internal Accessory Code: See Accessory Code Reference
⑩		Operating Mode:Direct handle / Optional rotary handle
⑪		Rated Current
⑫		Rated Voltage
⑬		Accessory Voltage

Operating Conditions

Operating Altitude	≤ 5000 m
Storage Temperature	−40°C to +75°C
Relative Humidity	≤ 50% at +40°C; up to 90% at +20°C
Pollution Degree	3
Protection Degree	IP20
Installation	Vertical or horizontal
Vertical Installation Inclination	≤ 5°

Accessory List

Code	Accessory
0	None
10	Shunt Release
20	Auxiliary Contact
40	Shunt Release + Auxiliary Contact

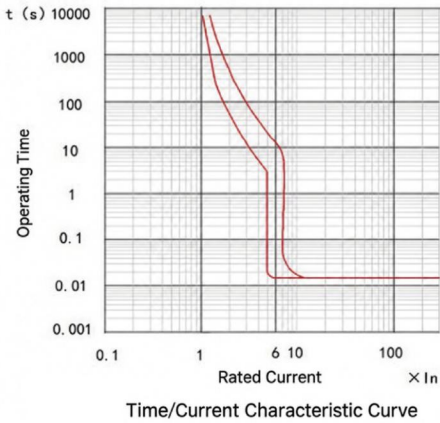
Technical Specifications

Parameter	CQM5NEZ-350	CQM5NEZ-630
Frame Size	350	630
Rated Current In (A)	63, 80, 100, 125, 140, 160, 180, 200, 225, 250, 280, 315, 320, 350	350, 400, 500, 630
Number of Poles	2P	2P
Rated Operational Voltage Ue	DC1500V	DC1500V
Rated Insulation Voltage Ui	1800V	1800V
Rated Impulse Withstand Voltage Uimp	12kV	12kV
Breaking Capacity Class	M / H	M
Ics = 100% Icu @ DC1500V	M: 20kA / H: 30kA (τ=2ms)	20kA (τ=2ms)
Electrical Endurance	1,000 cycles	1,000 cycles
Mechanical Endurance	10,000 cycles	5,000 cycles
Terminal Screw	M8	M10
Terminal Tightening Torque	15N·m (±5%)	25N·m (±5%)
Mounting Screw	M4	M4
Mounting Screw Torque	1.5N·m (±5%)	1.5N·m (±5%)
Overall Dimensions (L×W×H)	200 × 83 × 132mm	205 × 102 × 167mm

Recommended Conductor Cross-Section

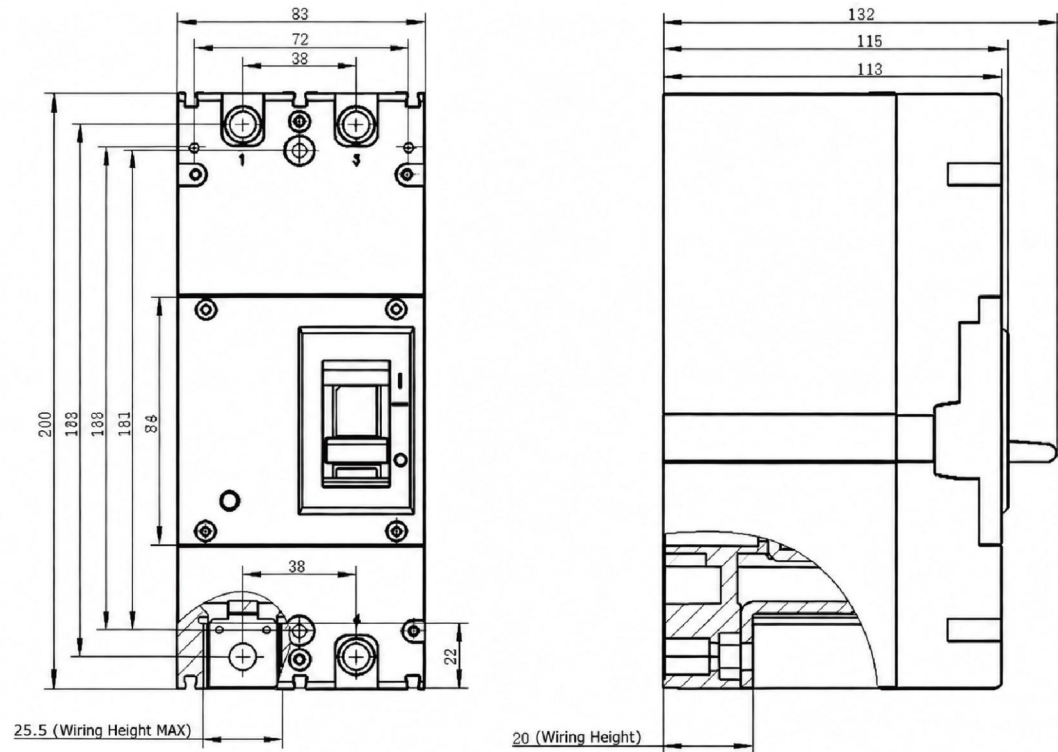
Rated Current In (A)	63	80	100	125	140/160	180/200/225	250	315	320/350	400	500	630
Conductor Cross-Section (mm²)	16	25	35	50	70	95	120	185	185	240	2×150	2×185

Time-current characteristic curve

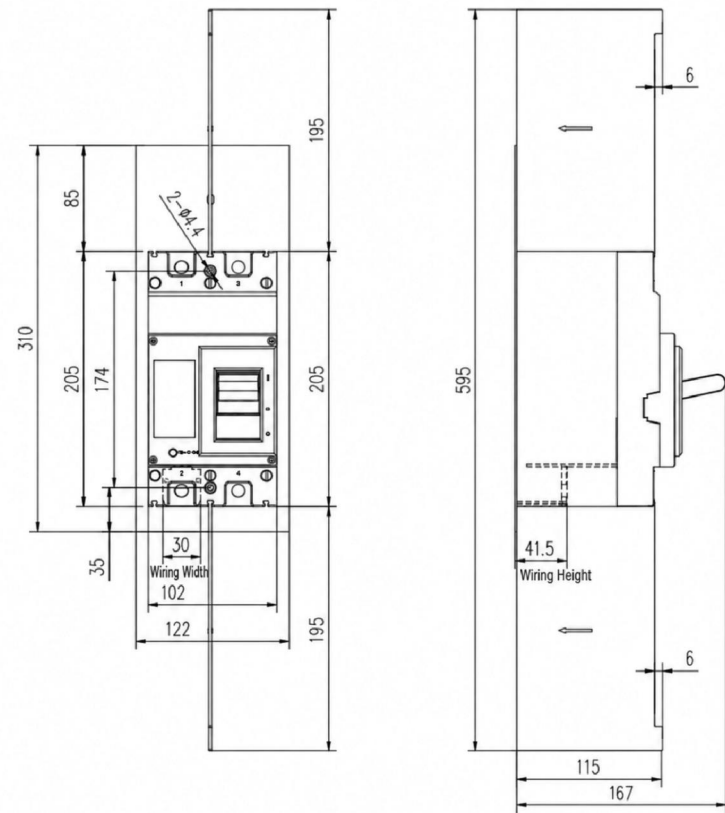


Overall and mounting dimensions

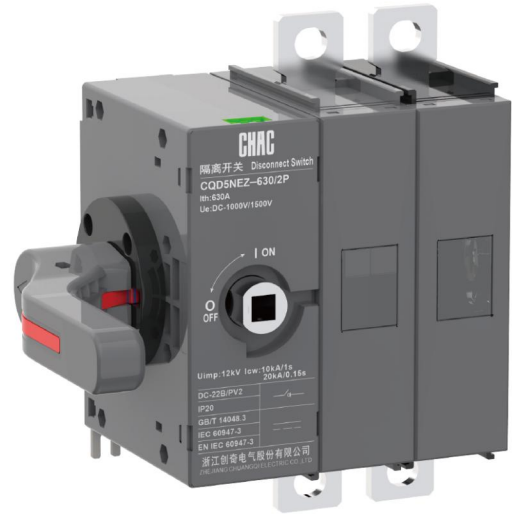
CQM5NEZ-350



CQM5NEZ-630



CQD5NEZ Series
DC Isolator Switch



Product Features

- DC1500V Application
Designed for DC systems with a rated operational voltage up to DC1500V.
- Wide Current Range
Available from 80A to 630A with 315A and 630A frame sizes.
- Flexible Operation
Supports both front and side operation for different installation requirements.
- Reliable Isolation
Provides circuit isolation for safe equipment maintenance and servicing.
- Flexible Installation
Supports both vertical and horizontal installation.
- Harsh Environment Adaptability
Operating temperature from -40°C to +85°C and operating altitude up to 5000m.

Type designation



	Code	Description
①	CQ	Enterprise Code
②	D	Isolator Switch
③	5	Design Code
④	NEZ	New Energy – DC
⑤	Frame Size	315 / 630
⑥	Rated Current	See rated current table
⑦	Operation	Z: Front operation / C: Side operation
⑧	Handle Type	K: Direct operating handle / P: External handle + extension shaft
⑨	Mounting	1: Vertical / 2: Horizontal / 3: Left vertical & right horizontal
⑩	Auxiliary Contact	2NO + 2NC

Operating Conditions

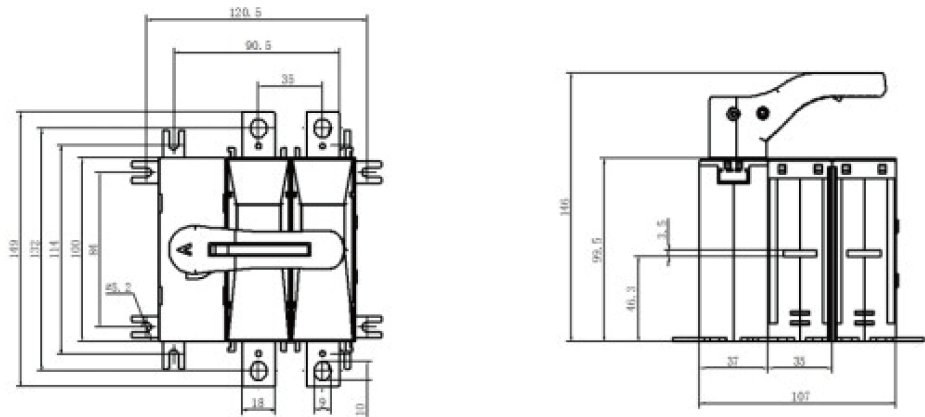
Operating Altitude	≤ 2500 m
Ambient Temperature	-40°C to +85°C
Derating	Required above +70°C
Storage Temperature	-40°C to +85°C
Relative Humidity	≤ 50% at +40°C; up to 90% at +20°C
Pollution Degree	3
Protection Degree	IP20 inside cabinet / IP65 outside cabinet
Installation	Vertical or horizontal
Vertical Installation Inclination	≤ 5°

Technical Specifications

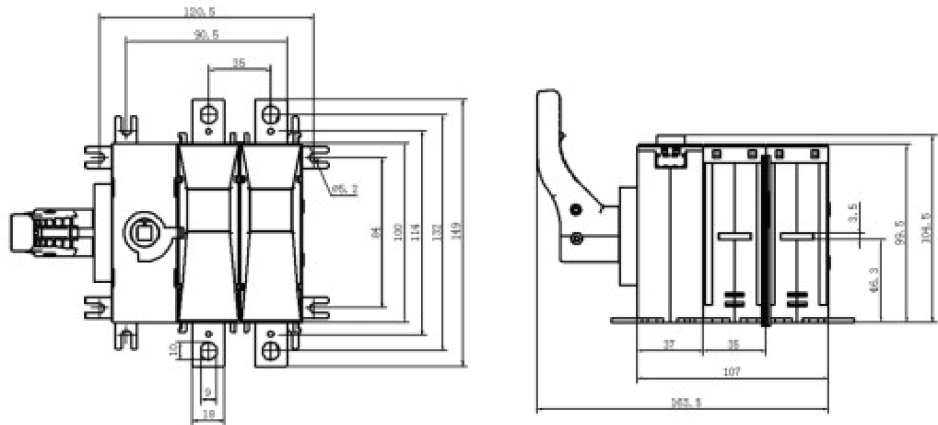
Parameter	CQD5NEZ-315	CQD5NEZ-630
Frame Size (A)	315	630
Rated Current In (A)	80, 100, 125, 160, 200, 225, 250, 275, 315	315, 325, 400, 500, 630
Number of Poles	2P	2P
Rated Operational Voltage Ue (V)	DC1500	DC1500
Rated Insulation Voltage Ui (V)	2000	2000
Rated Impulse Withstand Voltage Uimp (kV)	12	12
Rated Short-Circuit Making Capacity Icm (kA)	10	20
Rated Short-Time Withstand Current Icw	8kA/1s, 20kA/0.15s	10kA/1s, 20kA/0.15s
Mechanical Operations – Front	10,000	10,000
Mechanical Operations – Side	3,000	3,000
Electrical Operations	500	400
Operating Mode	Front / Side	Front / Side
Standards	IEC 60947-3, GB/T 14048.3	IEC 60947-3, GB/T 14048.3
Certification	CCC, CE, TÜV, CB	CCC, CE, TÜV, CB

Overall and mounting dimensions

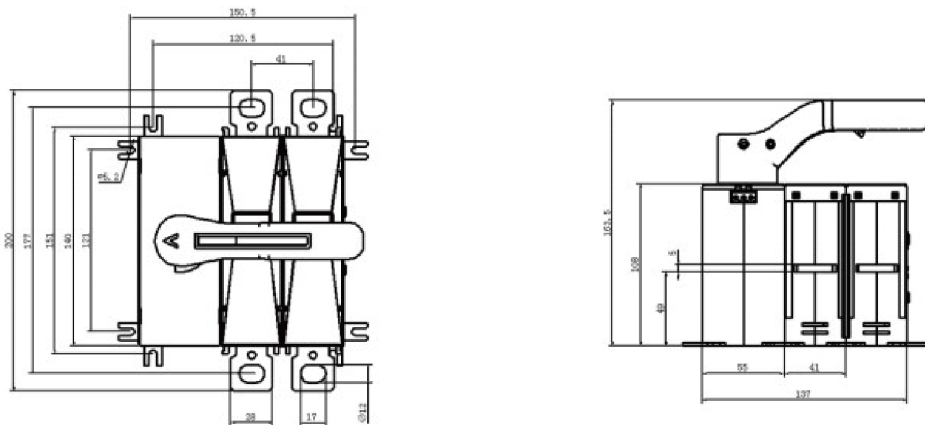
CQD5NEZ-315 — Front operation



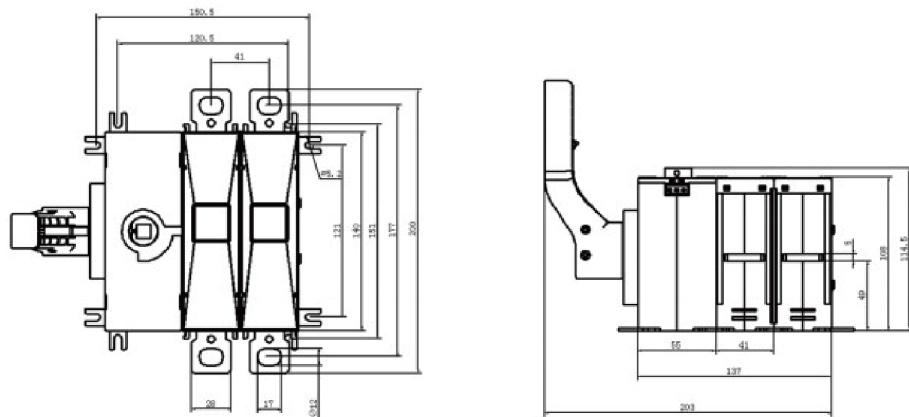
CQD5NEZ-315 — Side operation



CQD5NEZ-630 — Front operation



CQD5NEZ-630 — Side operation



CQW5NEDZ Series
DC Frame Isolation Switch



Product Features

- Up to DC1500V
Designed for DC systems with rated operational voltage up to DC1500V.
- Wide Current Range
Rated current range from 400A to 4000A, with 1600A, 2500A and 4000A frame sizes.
- High Short-Time Withstand Capacity
Rated short-time withstand current up to 100kA for 1s.
- Reliable DC Isolation
Designed for making, breaking and isolating main circuits in photovoltaic and energy storage DC systems.
- Compact Modular Structure
Compact fixed-type design with modular operating units and zero arcing distance.

Type designation



No.	Code	Description
①	CQ	Company Code
②	W	Frame-Type Switch
③	5	Design Code
④	NEDZ	New Energy – DC
⑤	1600 / 2500 / 4000	Frame Size
⑥	2	Number of Poles: 2P
⑦	□	Rated Current
⑧	□	Control Voltage
⑨	□	Fixed Type

Operating Conditions

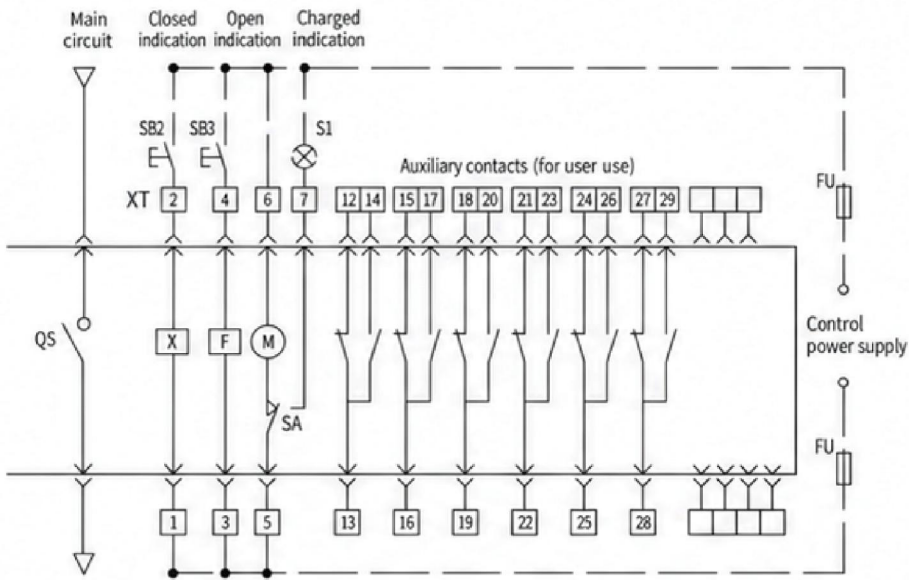
Ambient Temperature	-40°C to +70°C
24-hour Average Temperature	≤+35°C
Normal Operating Altitude	≤5000m
Relative Humidity	≤50% at +40°C
Max. Monthly Average Relative Humidity	90%
Corresponding Monthly Average Min. Temperature	+25°C
Installation Position	Vertical
Installation Inclination	≤5°
Pollution Degree	3
Installation Category – Main Circuit	IV
Installation Category – Auxiliary / Control Circuit	III
Degree of Protection	IP30 / IP40 (IP40 when installed in a cabinet compartment with a door frame.)
Utilization Category	1600A:DC-22A / DC-PV2 2500A,4000A:DC-23A / DC-PV2

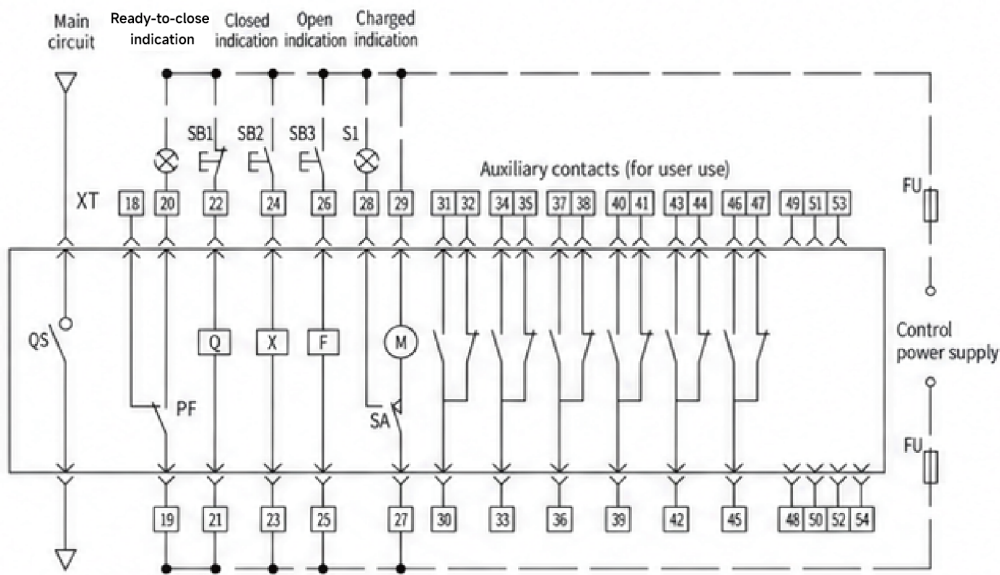
Technical Specifications

Parameter	CQW5NEDZ-1600	CQW5NEDZ-2500	CQW5NEDZ-4000
Frame size (A)	1600	2500	4000
Rated current (A)	400, 630, 800, 1000, 1250, 1600	800, 1000, 1250, 1600, 2000, 2500	800, 1000, 1250, 1600, 2000, 2500, 2800, 2900, 3200, 3600, 4000
Number of poles	2P	2P	2P
Rated operational voltage Ue (V)	DC1500	DC1500	DC1500
Rated insulation voltage Ui (V)	2000	2500	2500
Rated impulse withstand voltage Uimp (kV)	15	15	18
Pole spacing (mm)	80	95	115
Rated short-circuit making capacity Icm (kA)	50	85	100
Rated short-time withstand current Icw	50 kA/1 s, 120 kA/0.1 s	85 kA/1 s, 150 kA/0.2 s	100 kA/1 s, 160 kA/0.2 s
Utilization category	DC-22A, DC-PV2	DC-23A, DC-PV2	DC-23A, DC-PV2
Total breaking time, without intentional delay (ms)	—	≤25	≤25
Closing time (ms)	≤70	≤70	≤70
Electrical endurance (cycles)	500	500 (DC-23A); 1,500 (DC-PV2)	500 (DC-23A); 1,500 (DC-PV2)
Mechanical endurance maintenance-free (cycles)	10,000	15,000	15,000
Mechanical endurance with maintenance (cycles)	—	25,000	25,000
Temperature rise at a reference ambient temperature of 50°C (K)	—	<50	<50
Arcing distance (mm)	—	0	0
Installation type	Fixed type	Fixed type	Fixed type
Connection type	—	Horizontal connection	Horizontal connection
Overall dimensions (W × D × H), mm	214 × 240 × 320	278 × 329 × 403	298 × 372 × 406
Environmental compliance	—	RoHS 2.0	RoHS 2.0
Applicable standards	GB/T 14048.3, IEC 60947-3	GB/T 14048.3, IEC 60947-3	GB/T 14048.3, IEC 60947-3

Electrical circuit diagram

CQW5NEDZ-2500





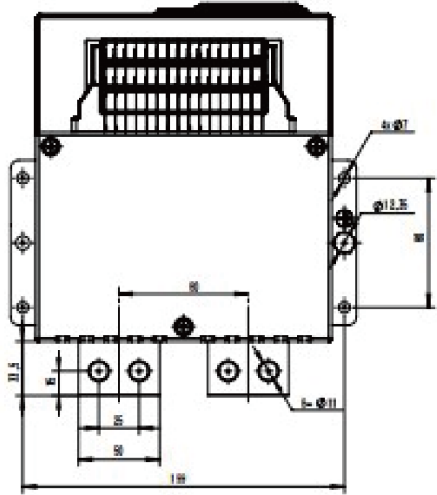
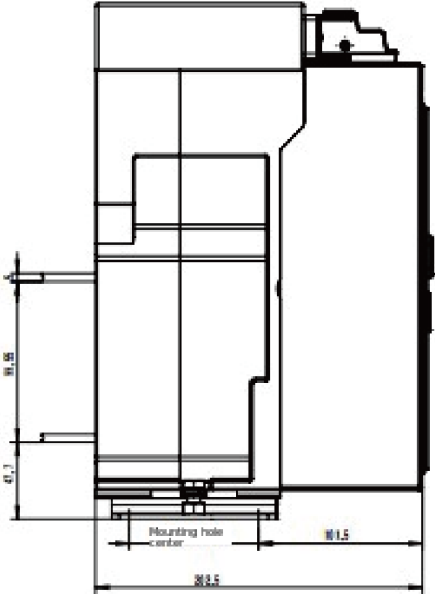
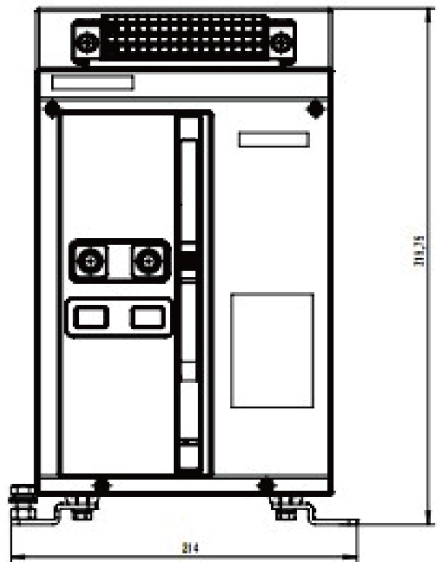
Symbols and descriptions

Symbol	Description	Symbol	Description
X	Closing solenoid	SB2	Close pushbutton (user supplied)
F	Shunt release	SB3	Open pushbutton (user supplied)
FU	Fuse (user supplied)	XT	Secondary circuit terminal
M	Motor operating mechanism	Q	Undervoltage release
QS	Isolating switch	PF	Ready-to-close contact
S1	Indicator lamp (user supplied)		
SA	Motor mechanism limit switch		

Notes

- (1) Dashed-line wiring is to be connected by the user.
- (2) If the control voltages of Q, X, F and M differ, connect them to separate suitable power supplies.
- (3) Terminal 29 may be connected directly to the power supply for automatic spring charging, or through a normally open pushbutton for manual spring charging.

Overall and mounting dimensions



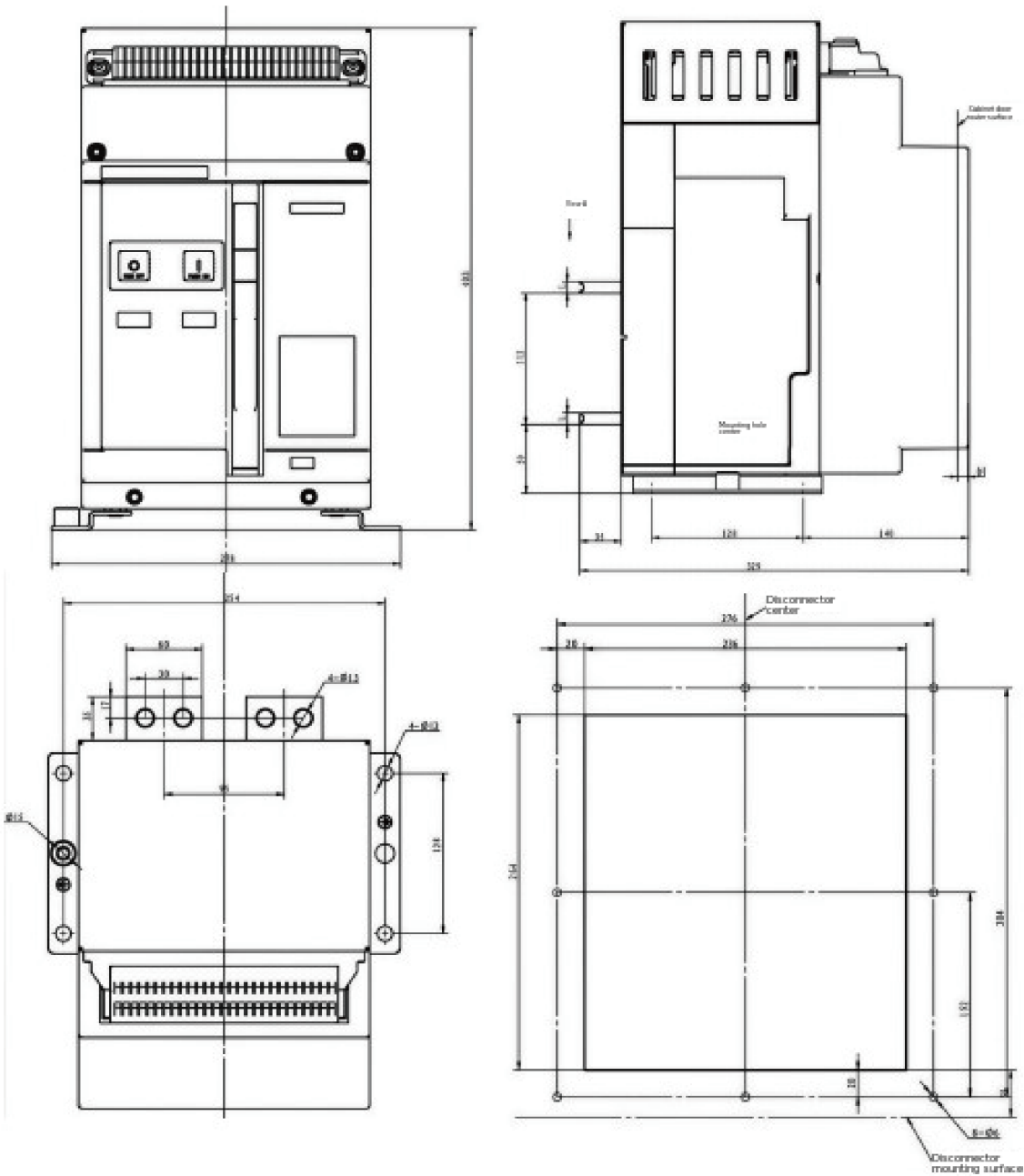


Table 12

Current rating	L/mm
800-1600A	8
1600-2500A	10

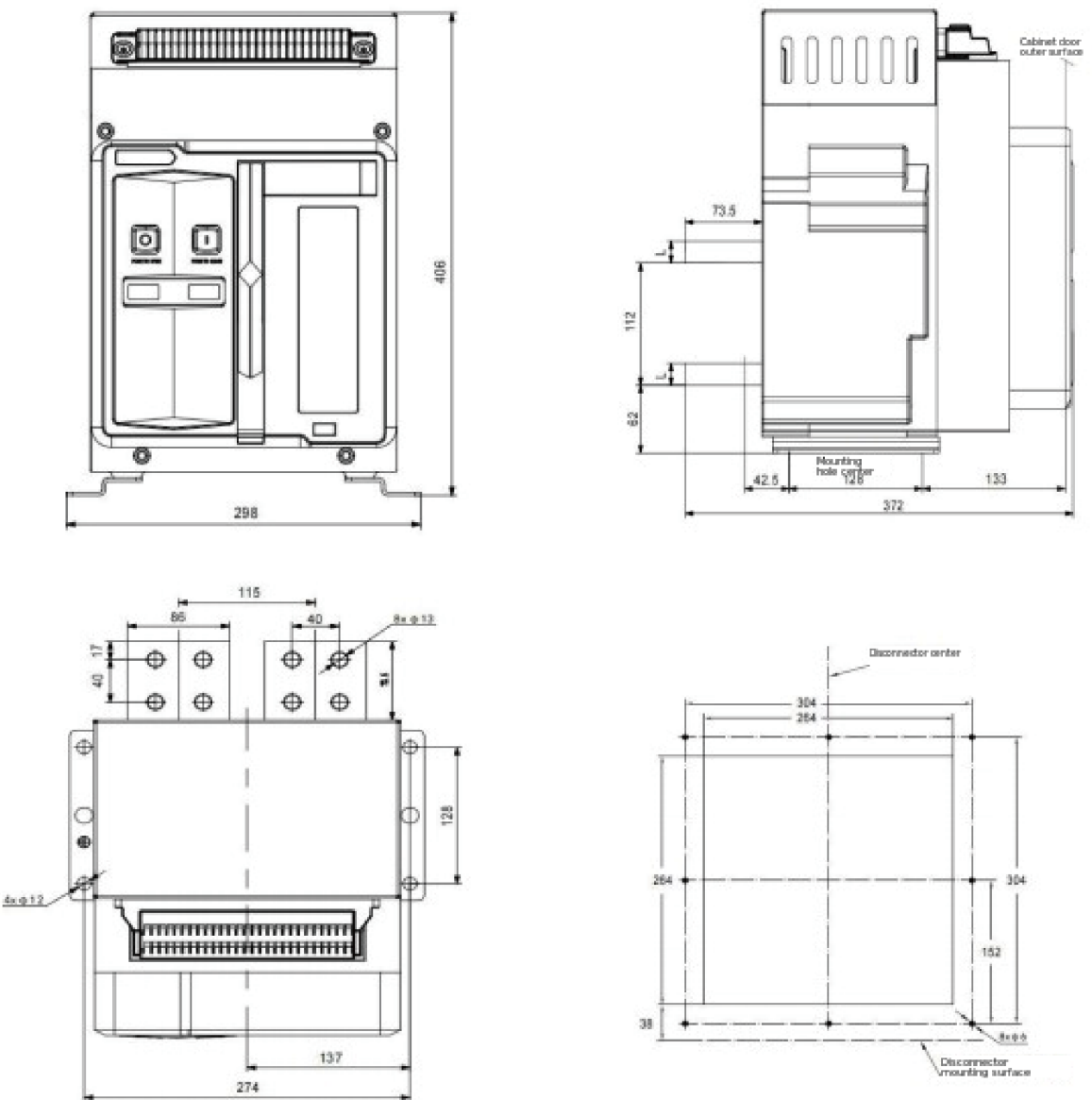


Table 12

Current rating	L/mm
800-2500A	10
2800-4000A	20