



Product catalogue

<https://www.cnrockwill.com>

GCS Type

LV withdrawable switchgear

High - level electrical performance

Flexible and convenient for internal installation.

Convenient operation and maintenance

Good protective performance



Comply with IEC / CEI /GB/JB/DL standards

Provided customized manufacture

Whole solutions for design, assembly, test...

Accountable solution for safety and reliability

Wide range offering, easy business and convenient installation



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About us / Contact us

<https://www.cnrockwill.com>

Rockwill Group is one of the leading high technical enterprises professional deals in medium high voltage switchgear and components develop, manufacture and sales.

Located in Wengyang Industrial Zone, Wenzhou, used to known as Yueqing Real Electric Works (Registered in 1986), we have more than 20 years experiences in Medium & high voltage field. We strategically cooperate with worldwide high reputation medium& high voltage switchgear manufacturer and research institute, successfully developed series of medium voltage mutually; filled the blank in China.

We also teamed up with province grade intelligence high voltage switch laboratory, together developed new generation intelligence simultaneous technical vacuum switch, electronic current transformer, digital integrated substation etc. through the cooperation we obtain plenty achievements and build up experience technical team. Plentiful talent backup, advanced production equipment, perfect quality control system and reverse inspection procedure are powerful guarantee of our reliable product quality and high reputation.

We have always insisted the faith on grow together with customers, and to provide a safe, simply, green and efficient medium & high voltage switchgear and components.

ROCKWILL®, China. Provide with best support.

If you have any question please consult below:

Email: rockwell@rockwill.com

Tel: [+86 \(577\) 27869969](tel:+86(577)27869969)

<https://www.cnrockwill.com/>



Summary

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ROCKWILL® Electric strives to bring our customers the latest technology and competitive pricing and best service for distribution automatic.

The device is applicable to the distribution system of power station, petroleum, chemical engineering, metallurgy, weaving and tall building industries etc. In the places with high automaticity and need computer to joint, such as large-scale power station and petrochemical industry system etc, it is the low voltage complete distribution device used in the generating and power supply system with three-phase AC50(60)Hz, rated working voltage 380V, rated current 4000A and below for distribution, motor central control and reactive power compensation. The device accords with standards IEC439- 1 and GB7251.1

The GCS low-voltage draw-out switchgear adopts a cabinet body made of 8MF type open-section steel and features a draw-out structure design. The modular functions are independent, and the modules are convenient to interchange. It can accurately distribute electrical energy, effectively deal with electrical circuit faults through various protection devices, and ensure the stable supply of electricity.

Service environment

Air temperature:-5°C ~ +40°C average temperature: <+35°C 24h

Installation gradient: not exceed 5°

Altitude above sea level:Max 2000m

Relative humidity should not exceed 50% at max temperature. Higher relative humidity is allowed at lower temperature.

Indoor without dust, corrosive gas and rain water attack.



Technical feature

<https://www.cnrockwill.com>

Main framework adopts 8MF bar steel. Both sides of bar steel is installed with 9.2mm mounting hole with modulus 20mm and 100mm. Inner installation is flexible and easy.

Two types of assembly form design for main framework, full assembly structure and partial (side frame and cross rail) welding structure for user selection.

Each function compartment of device is separated mutually. The compartments are divided into function unit compartment, bus bar compartment and cable compartment. Each one has relative independent function.

Horizontal bus bar adopts cabinet back level placed array pattern for enhancing the capacity of resisting electrodynamic force for bus bar. It is the basic measure for obtaining high short circuit strength capacity for main circuit.

Cable compartment design makes cable outlet and inlet up and down convenient.



Power Distribution Principle:

The power supply is connected to the inlet terminal of the GCS low-voltage draw-out switchgear, and the electrical energy is distributed to each drawer unit through the busbars. Each drawer unit is equivalent to an independent circuit branch. According to the actual power consumption requirements, different electrical components such as circuit breakers, contactors, and thermal relays can be configured inside the drawer to achieve the power supply and control of different load devices.

Control Principle:

Taking the control of an electric motor as an example, when it is necessary to start the electric motor, the operator makes the contactor coil energized by operating the control button on the drawer unit or sending a remote control signal. Then, the main contacts of the contactor close, and the electric motor is connected to the power supply and starts to run. At the same time, the thermal relay will monitor the current of the electric motor in real time. When the electric motor has faults such as overload and short circuit, which lead to an excessive current, the thermal relay will act, and its normally closed contacts will open, making the contactor coil de-energized and the main contacts open, thus cutting off the power supply of the electric motor and playing a protective role.

Protection Principle:

Short - circuit Protection: The short - circuit current triggers the circuit breaker's trip device, instantly cutting off the circuit to prevent damage to equipment and lines.

Overload Protection: The thermal relay is set according to the motor's rated current. When overloaded, the bimetallic strip of the thermal relay deforms and pushes the tripping mechanism, causing the contactor to cut off the motor's power supply.

Under - voltage Protection: When the power supply voltage is lower than the specified value, the under - voltage release device operates, making the circuit breaker trip to avoid equipment damage or abnormal operation under under - voltage conditions.

Intelligent Communication Principle:

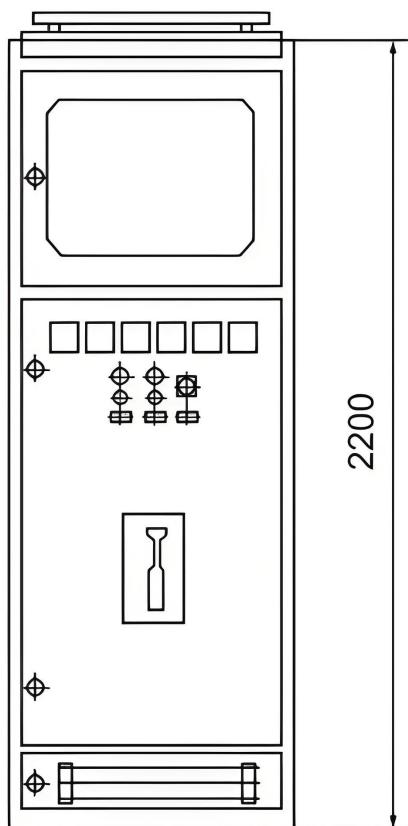
The intelligent monitoring module collects the operation data of the switchgear in real time, such as voltage, current, power, temperature, etc., and processes and analyzes these data. Through the communication interface and protocol, the data are transmitted to the upper computer or the monitoring center. The operator can view the operation status of the equipment in real time on the remote monitoring platform. When an abnormal situation occurs, the system will send out an alarm signal so that timely measures can be taken to deal with it.

Secondary Circuit Control:

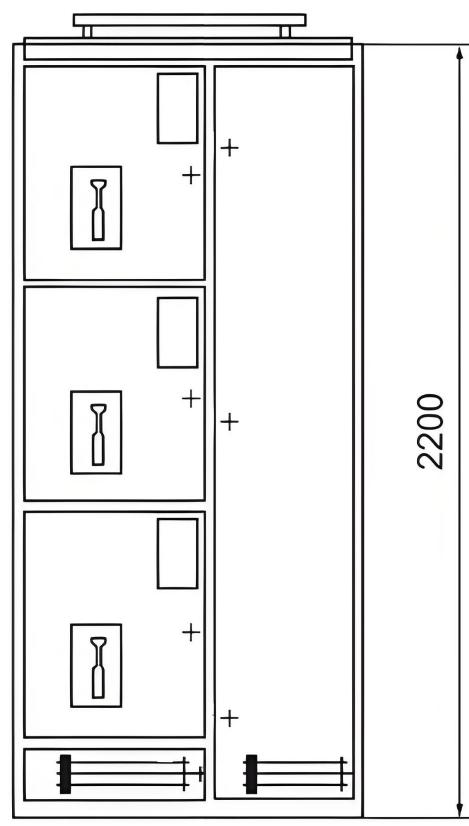
The electrical components in the drawer are also connected to the secondary control circuit in the cabinet through secondary connectors. The secondary circuit is used to achieve functions such as the control of the switch, signal indication, protection, and the interface with external devices (such as the computer monitoring system).

Rated voltage of main circuit AC(V):	380(400),(660)
Rated voltage of auxiliary circuit AC(V):	220、380(400)
Rated voltage of auxiliary circuit DC (V):	110、220
Rated frequency (Hz): 50(60)	50/60
Rated insulation voltage (V):	660(1000)
Rated current Horizontal bus bar (A):	< 4000
Rated current Vertical bus bar(MCC) (A):	1000

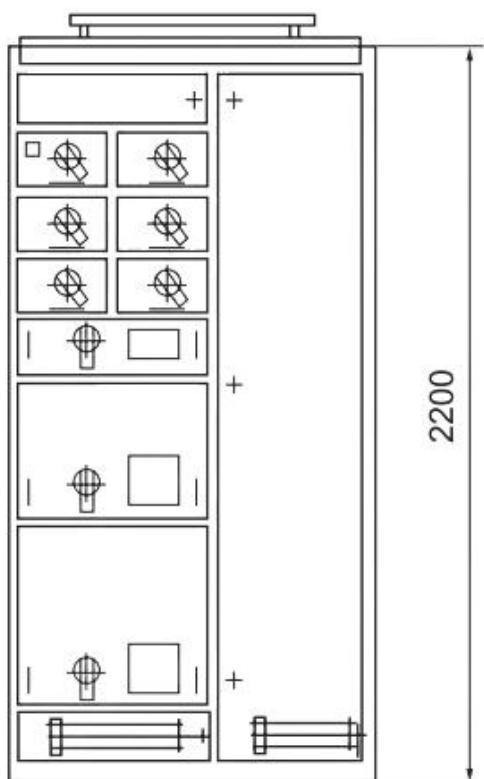
Rated short time withstand current of bus bar (kA/1s):	50、80
Rated peak withstand current of bus bar (kA/0.1s):	105、176
Line frequency test voltage Main circuit (V/1min):	2500
Line frequency test voltage Auxiliary circuit (V/1min):	1760
Bus bar Three-phase four-wire system:	A.B.C.N
Bus bar Three-phase five-wire system:	A.B.C.P.E.N
Protection grade:	IP30、IP40



power receiving cabinet



PC Cabinet



MCC Cabinet

Height	2200	
Width	400	
Depth	800	1000

Height	2200	
Width	600	
Depth	800	1000

Height	2200		
Width	800		
Depth	600	800	1000

Height	2200		
Width	1000		
Depth	600	800	1000



After-sale service

<https://www.cnrockwill.com>



Field service operation and warranty issues:

ROCKWILL® can provide competent, well trained field service representatives to provide technical guidance and advisory assistance for the installation, overhaul, repair and maintenance of ROCKWILL® equipment, processes and systems.

ROCKWILL® service Tel: [+86 \(577\) 27869969](tel:+8657727869969)

Email: rockwell@rockwill.com

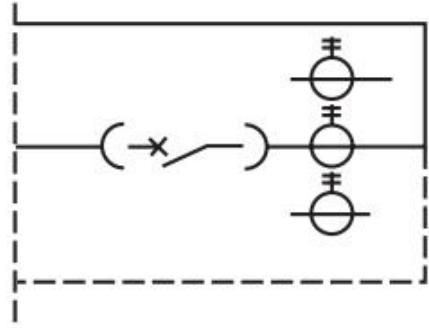
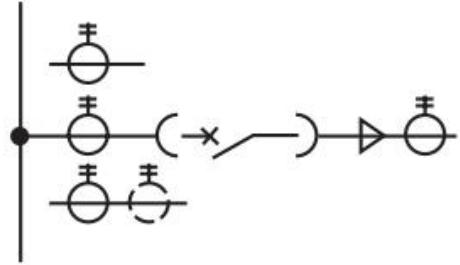
Or check the website information: <https://www.cnrockwill.com/>

Primary wire scheme diagram:

Main circuit scheme	01	02	
Line diagram			
Purpose	Electrification (upper incoming line)	Electrification (lower incoming line)	
Specification serial No	A 80/176	B 50/105	C 30/63
Short time withstand current / instantaneous withstand current(kA)	D 3150	E 2500	F 200
Rated current(A)	G 4000	G 3150	G 2500
AH - 40C	1	1	1
AH - 30CH	1	1	1
AH - 25C	1	1	1
AH - 20C	1	1	1
AH - 16B	1	1	1
AH - 10B	1	1	1
AH - 6B	1	1	1
SDL - □			
SDH - □ □/5	3(4) 800(1000)	3(4) 600	3(4) 800(1000)
Cabinet widthmm	1000	800	1000
Cabinet depthmm			800
Occupied cabinet heightmm			

Main circuit scheme 03

Line diagram



04

Purpose Electrification (lower incoming line)

Specification serial No.	A	B	C	D	E	F	G	A	B	C	D	E	F	G
Short time withstand current / instantaneous withstand current(kA)								80/176						
50/105														

Rated current(A) 2500 2000 1600 1000 630 30/63

Main electrical appliance	AH - 40C	AH - 30CH	AH - 25C	AH - 20C	AH - 16B	AH - 10B	AH - 6B	SDL - □	SDH - □ □/5	Cabinet widthmm	Cabinet depthmm	Occupied cabinet heightmm
	(1)	(1)	1	1	1	1	1			800	800	800
	3(4)	3(4)								600		
	800									1000	1000	1000
	800											800

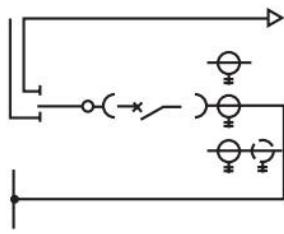
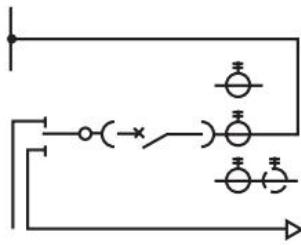
Interconnection

50/105	80/176	30/63	30/63

Main circuit scheme	05	06
Line diagram		
Purpose	Bus adaptation	Feeding
Specification serial No.		A B C
Short time withstand current / instantaneous withstand current(kA)	80/176	80/176
Rated current(A)	30/63	30/63
AH-16B		1600
AH-10B		1000
AH-6B		630
QPS-1000		
QPS-630		
Main electrical appliance		
SDL - □	(1)	(1)
SDH - □ □/5	1(3)	1(3)
Cabinet widthmm	400(600)	1000
Cabinet depthmm	800(1000)	800(1000)
Occupied cabinet heightmm	640	640

Main circuit scheme 07

Line diagram



Purpose Manual switch-over of dual power supply

Specification serial No.	A	B	C	D	E	F	G
Short time withstand current /	50/105						
Instantaneous withstand current(kA)	30/63						
Rated current(A)	1000	630					
AH-16B	1				1000	630	
AH-10B		1					1
AH-6B	1						1
QPS-1000		1					1
QPS-630							
SDL - □							
SDH - □ □/5	3(4)	3(4)			3(4)	3(4)	
Cabinet widthmm	1000						1000
Cabinet depthmm	800						800
Occupied cabinet heightmm							

Note: 1.AH is master circuit breaker, it can also choose imported F, MT series or circuit breaker with more advanced performance. 2.01, 02, 04 scheme, e.g.: When the PE+N needs to enter power cabinet, the width size adopts the one in the bracket. 3. SDL and SDH are special current transformers for GCS cabinet.

Main circuit scheme 09

Line diagram



Purpose

Specification serial No.

Short time withstand current /
instantaneous withstand current(kA)

Rated current(A)

0.0084Ω/φ

B370,LR1,CJ35

B250,LR1,CJ35

TG400BD,CM1-400M,TM30
TG225BD,CM1-225M,TM30
TG100BD,CM1-100M,TM30

SDL - □

SDH - □ □/5

Cabinet widthmm

Cabinet depthmm

Occupied cabinet heightmm

Manual switch-over of dual power supply

	A	B					
Specification serial No.	50/105						
Short time withstand current / instantaneous withstand current(kA)	30/63						

	400	250					
Rated current(A)							

QSA-630							
QSA-400							
QSA-250							
QSA-160							

Current-limiting reactor 600A							

0.0084Ω/φ							
B370,LR1,CJ35	1						
B250,LR1,CJ35		1					
TG400BD,CM1-400M,TM30	1	1					
TG225BD,CM1-225M,TM30							
TG100BD,CM1-100M,TM30							

SDL - □							
SDH - □ □/5							

Cabinet widthmm	800(1000)						
Cabinet depthmm	600						
Occupied cabinet heightmm	480 × 2						

SDL - □	(1)	(1)	(1)	(1)			
SDH - □ □/5	1(3)	1(3)	1(3)	1(3)			

Cabinet widthmm	1000						
Cabinet depthmm	800(1000)						
Occupied cabinet heightmm	480	320					

Cabinet widthmm	1000						
Cabinet depthmm	800(1000)						
Occupied cabinet heightmm	480	320					

Cabinet widthmm	1000						
Cabinet depthmm	800(1000)						
Occupied cabinet heightmm	480	320					

Cabinet widthmm	1000						
Cabinet depthmm	800(1000)						
Occupied cabinet heightmm	480	320					

Cabinet widthmm	1000						
Cabinet depthmm	800(1000)						
Occupied cabinet heightmm	480	320					

Cabinet widthmm	1000						
Cabinet depthmm	800(1000)						
Occupied cabinet heightmm	480	320					

Cabinet widthmm	1000						
Cabinet depthmm	800(1000)						
Occupied cabinet heightmm	480	320					

Cabinet widthmm	1000						
Cabinet depthmm	800(1000)						
Occupied cabinet heightmm	480	320					

Cabinet widthmm	1000						
Cabinet depthmm	800(1000)						
Occupied cabinet heightmm	480	320					

Cabinet widthmm	1000						
Cabinet depthmm	800(1000)						
Occupied cabinet heightmm	480	320					

Cabinet widthmm	1000						
Cabinet depthmm	800(1000)						
Occupied cabinet heightmm	480	320					

Cabinet widthmm	1000						
Cabinet depthmm	800(1000)						
Occupied cabinet heightmm	480	320					

Cabinet widthmm	1000						
Cabinet depthmm	800(1000)						
Occupied cabinet heightmm	480	320					

Cabinet widthmm	1000						
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Occupied cabinet heightmm	480	320					

Cabinet widthmm	1000						
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Occupied cabinet heightmm	480	320					

Cabinet widthmm	1000						
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Occupied cabinet heightmm	480	320					

Cabinet widthmm	1000						
Cabinet depthmm	800(1000)						
Occupied cabinet heightmm	480	320					

Cabinet widthmm	1000						
Cabinet depthmm	800(1000)						
Occupied cabinet heightmm	480	320					

Cabinet widthmm	1000						
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Occupied cabinet heightmm	480	320					

Cabinet widthmm	1000						
Cabinet depthmm	800(1000)						
Occupied cabinet heightmm	480	320					

Cabinet widthmm	1000						
Cabinet depthmm	800(1000)						
Occupied cabinet heightmm	480	320					

Cabinet widthmm	1000						
Cabinet depthmm	800(1000)						
Occupied cabinet heightmm	480	320					

Cabinet widthmm	1000						
Cabinet depthmm	800(1000)						
Occupied cabinet heightmm	480	320					

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Cabinet depthmm	800(1000)						
Occupied cabinet heightmm	480	320					

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Occupied cabinet heightmm	480	320					

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Occupied cabinet heightmm	480	320					

Cabinet widthmm	1000						
Cabinet depthmm	800(1000)						
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Cabinet depthmm	800(1000)						
Occupied cabinet heightmm	480	320					

Cabinet widthmm	1000						
Cabinet depthmm	800(1000)						
Occupied cabinet heightmm	480	320					

Cabinet widthmm	1000						
Cabinet depthmm	800(1000)						
Occupied cabinet heightmm	480	320					

Cabinet widthmm	1000						
Cabinet depthmm	800(1000)						
Occupied cabinet heightmm	480	320					

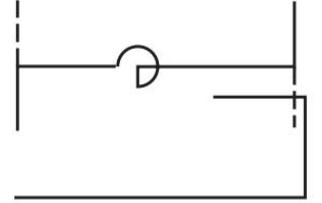
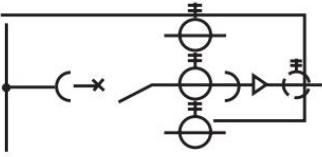
Cabinet widthmm	1000						
Cabinet depthmm	800(1000)						
Occupied cabinet heightmm	480	320					

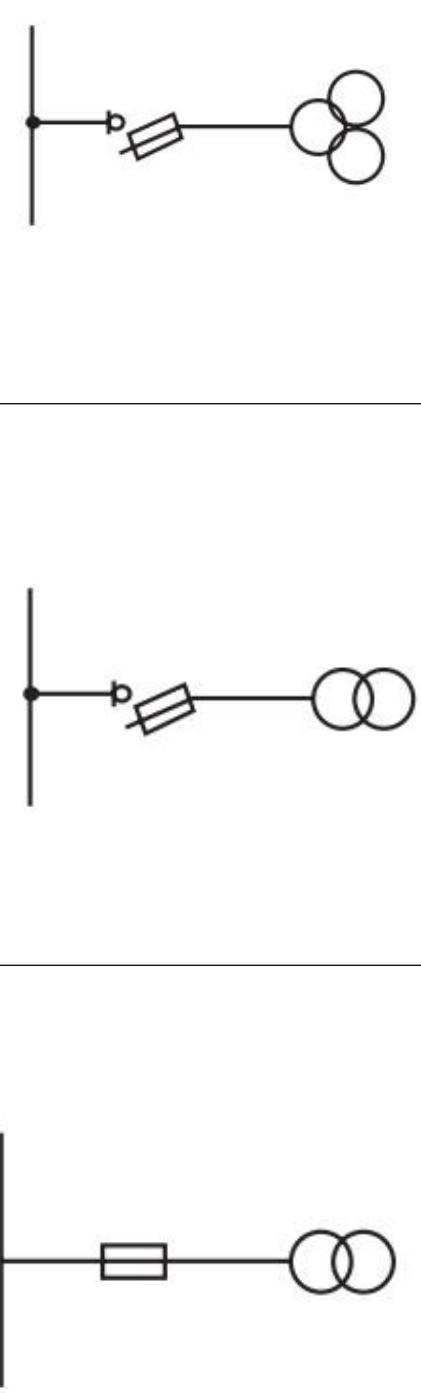
Cabinet widthmm	1000						
Cabinet depthmm	800(1000)						
Occupied cabinet heightmm	480	320					

Cabinet widthmm	1000						
Cabinet depthmm	800(1000)						
Occupied cabinet heightmm	480	320					

Cabinet widthmm	1000						
Cabinet depthmm	800(1000)						
Occupied cabinet heightmm	480	320					

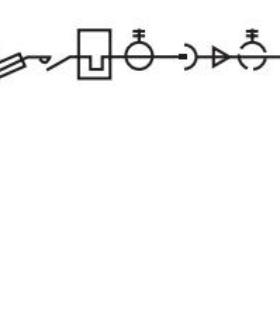
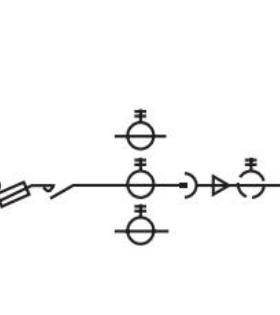
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Main circuit scheme	11		12
Line diagram			
Purpose		Current limiting reactor	
Specification serial No.	A 50/105	B C	
Short time withstand current / instantaneou s withstand current(kA)	30/63		
Rated current(A)	400	200	100
QSA-630			
QSA-400			
QSA-250			
QSA-160			
Current-limiting reactor 600A 0.0084Ω/φ			3
B370,LR1,CJ35			
B250,LR1,CJ35			
TG400BD,CM1-400M,TM30	1		
TG225BD,CM1-225M,TM30	1		
TG100BD,CM1-100M,TM30		1	
SDL - □	(1)	(1)	(1)
SDH - □ □/5	1(3	11	1
Cabinet widthmm	800(1000)		600
Cabinet depthmm	600		800
Occupied cabinet heightmm	240(160)		

Main circuit scheme	13	14	15
Line diagram			
Purpose			
Specification serial No.			
Rated current(A)			
QSA-63			
NT00- □			
3			
Voltage transformers			
Main electrical appliance			
JDG-0.5 380/100			
JSGW-0.5			
SDH- □ /5			
Cabinet widthmm			
Cabinet depthmm			
Occupied cabinet heightmm			

(Does not occupy a separate compartment. It is installed in the power receiving cabinet or the transfer cabinet of Scheme 05 and connected to the branch busbar.)

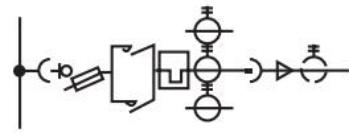
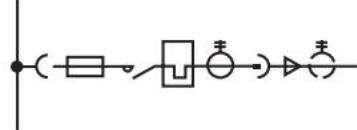
Note: Remark: feed line scheme can be equipped with zero-phase sequence protection with zero-phase sequence current transformer installed in cable chamber.

Main circuit scheme	16	17	
Line diagram			
Purpose	Motor (irreversible)	Motor (irreversible)	
Specification serial No.	A 100	B 75	C 55
Max. control power(kW)	1		
QSA-250	1		
QSA-160	1		
QSA-125	1		
HH17-63			1
NT00- □			
B250,LC1,CJ35	1		
B170-105,LC1,CJ35	1	1	1
B85 or LC1-D80			1
B45 or LC1-D32			1
B16 or LC1-D18			1
T85,LR1			1
TSA45,LR1			1
T16,LR1	1	1	1
SDL - □	(1)	(1)	(1)
SDH - □ □/5	3	3	3
Cabinet widthmm	800(1000)		800(1000)
Cabinet depthmm	600		800
Occupied cabinet heightmm	480		320

Main circuit scheme

18

Line diagram



19

Purpose

Specification serial No.

Max. control power(kW)

Motor (irreversible)

Motor (irreversible)

A
B
C

100
75
55

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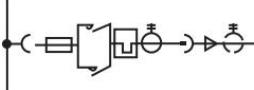
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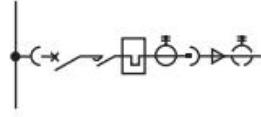
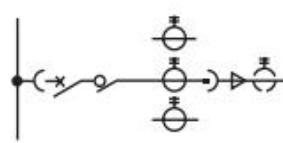
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Main electrical appliance

Main circuit scheme	20	21	
Line diagram			
			
Purpose			
Specification serial No.			
Max. control power(kW)			
	A	B	
QSA-125	37	15	
HH17-63	1	1	
NT00-□			
CM1-400LTG-400BD,TM30			
CM1-225M,TM30			
CM1-100M,TG-100BD,TM30			
NZMS4,TM30			
B250,LC1,CJ35			
B170-105,LC1,CJ35			
B85 or LC1-D80	2		
B45 or LC1-D32		2	
B16 or LC1-D18			
T85,LR1	1		
TSA45,LR1		1	
T16,LR1			1
SDL - □	(1)	(1)	(1)
SDH - □ □/5	1	1	1
Cabinet widthmm	800(1000)		800/2(1000/2)
Cabinet depthmm	600		600
Occupied cabinet heightmm	480		160

Main circuit scheme 22

Line diagram



23

Purpose Motor (irreversible)

Specification serial No.

A B C

Max. control power(kW)

100 75 55

Main electrical appliance

QSA-125
HH17-63
NT00-□
CM1-400LTG-400BD,TM30

CM1-225M,TM30
CM1-100M,TG-100BD,TM30

NZMS4,TM30

B250,LC1,CJ35
B170-105,LC1,CJ35

B85 or LC1-D80

B45 or LC1-D32
B16 or LC1-D18

T85,LR1

TSA45,LR1
T16,LR1

SDL - □
SDH - □ □/5

A B C

37 15 7.5

1 1 1
1 1 1

1 1 1

1 1 1
1 1 1

1 1 1

800(1000)
Cabinet widthmm
Cabinet depthmm
Occupied cabinet heightmm

800(1000)
600
240

800/2(1000/2)
600
160

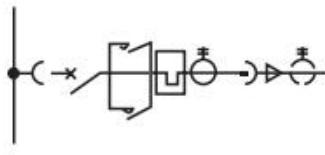
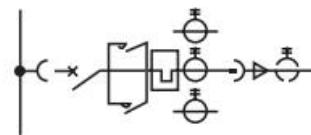
800(1000)
600
240

800/2(1000/2)
600
160

Main circuit scheme

24

Line diagram



25

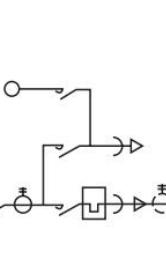
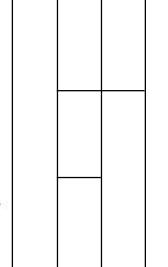
Purpose

Specification serial No.	A	B	C
50/105			
30/63			
Max. control power(kW)	100	75	55
CM1-400L or TG-400BD,TM30	1		
CM1-225M,TM30		1	
CM1-100M,TG-100BD,TM30			1
NZMS4,TM30			1
B250,LC1,CJ35	2		
B170-105,LC1,CJ35		2	
B85 or LC1-D80			2
B45 or LC1-D32			2
B16 or LC1-D18			2
T85,LR1			1
TSA45,LR1			1
T16,LR1	1	1	1
SDL - □	(1)	(1)	(1)
SDH - □ □/5	3	3	1
Cabinet widthmm	800(1000)	800(1000)	800/2
Cabinet depthmm	600	600	1000/2
Occupied cabinet heightmm	480	320	240

Motor (reversible)

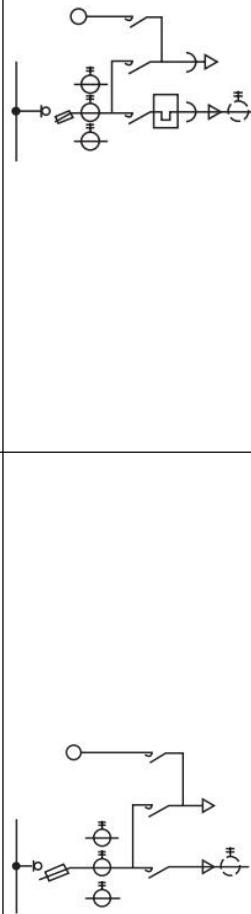
	A	B	C
50/105			
30/63			

Main electrical appliance

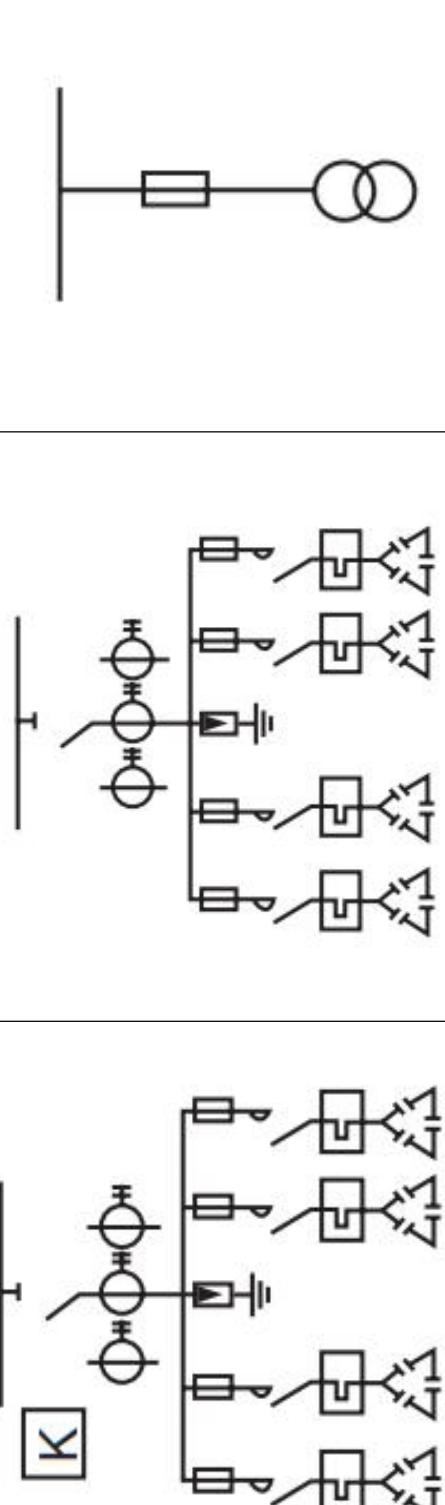
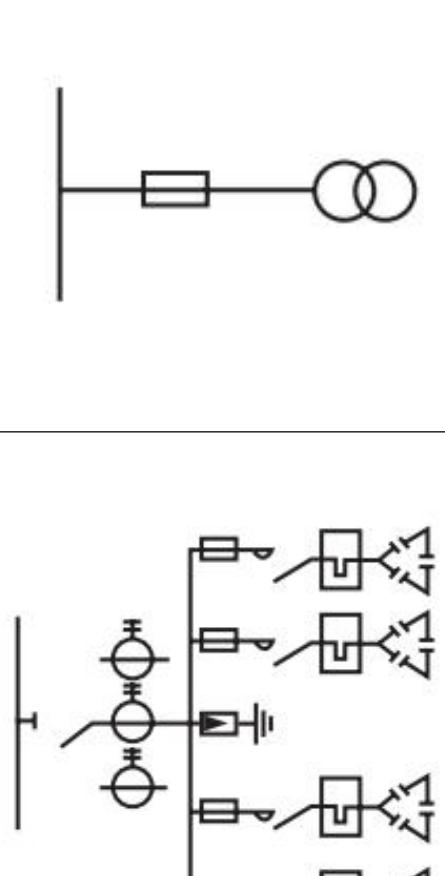
Main circuit scheme	26	27
Line diagram	 	 
Purpose	Y-△ Start	Y-△ Start
Specification serial No.	A B	A B
Short time withstand current / instantaneous withstand current(kA)	50/105 30/63	50/105 30/63
Max. control power(kW)	160 90	37 15
QSA-400~250		
QSA-125		
HH17-63	3 3	
NT3- □		
TG-400BD,TM30	1	
CM1-225M,TG-225BD,TM30	1	
CM1-100M,TG-100BD,TM30		1 1
B370+B250,LC1,CJ35	2+1	
B250+B170,LC1,CJ35	2+1	
B85 or LC1-D80		3 3
T85,LR1		1 1
TSA45,LR1		
T16,LR1	1 1	
SDL - □	(1) (1)	(1) (1)
Cabinet widthmm	3 3	1 1
Cabinet depthmm	1000	800(1000)
Occupied cabinet heightmm	800	600
	1120 960	320

Main circuit scheme 28

Line diagram



Purpose	Y- △ Start		Y- △ Start	
Specification serial No.	A	B	A	B
Short time withstand current / instantaneous withstand current(kA)	50/105		50/105	
Max. control power(kW)	30/63		30/63	
QSA-400~250	160	90	37	15
QSA-125	1	1	1	
HH17-63			1	
NT3- □				
TG-400BD,TM30				
CM1-225M,TG-225BD,TM30				
CM1-100M,TG-100BD,TM30				
B370+B250,LC1,CJ35	2+1			
B250+B170,LC1,CJ35	2+1			
B85 or LC1-D80			3	
B45 or LC1-D80			3	
T85,LR1				
TSA45,LR1			1	1
T16,LR1	1	1		
SDL - □	(1)	(1)	(1)	(1)
SDH - □ □/5	3	3	1	1
Cabinet widthmm	800(1000)		800(1000)	
Cabinet depthmm	600		600	
Occupied cabinet heightmm	800		320	

Main circuit scheme	30			
Line diagram				
Purpose	Reactive compensation(master cabinet)	Reactive compensation(master cabinet)	Reactive compensation(master cabinet)	Common power supply
Specification serial No.	A	B	C	
Max. compensation capacitance(kW)	160	128	96	
QA-400	1	1	1	160
am-32	30	24	18	128
NT00-□				96
JBK3-400				
B30C	10	8	6	
T45,LR1	10	8	6	
BCMJ-0.4-16-3	10	8	6	
SDH- □ □/5	3	3	3	
Cabinet widthmm	1000	800		1000
Cabinet depthmm	800(1000)		800(1000)	
Occupied cabinet height (mm)				