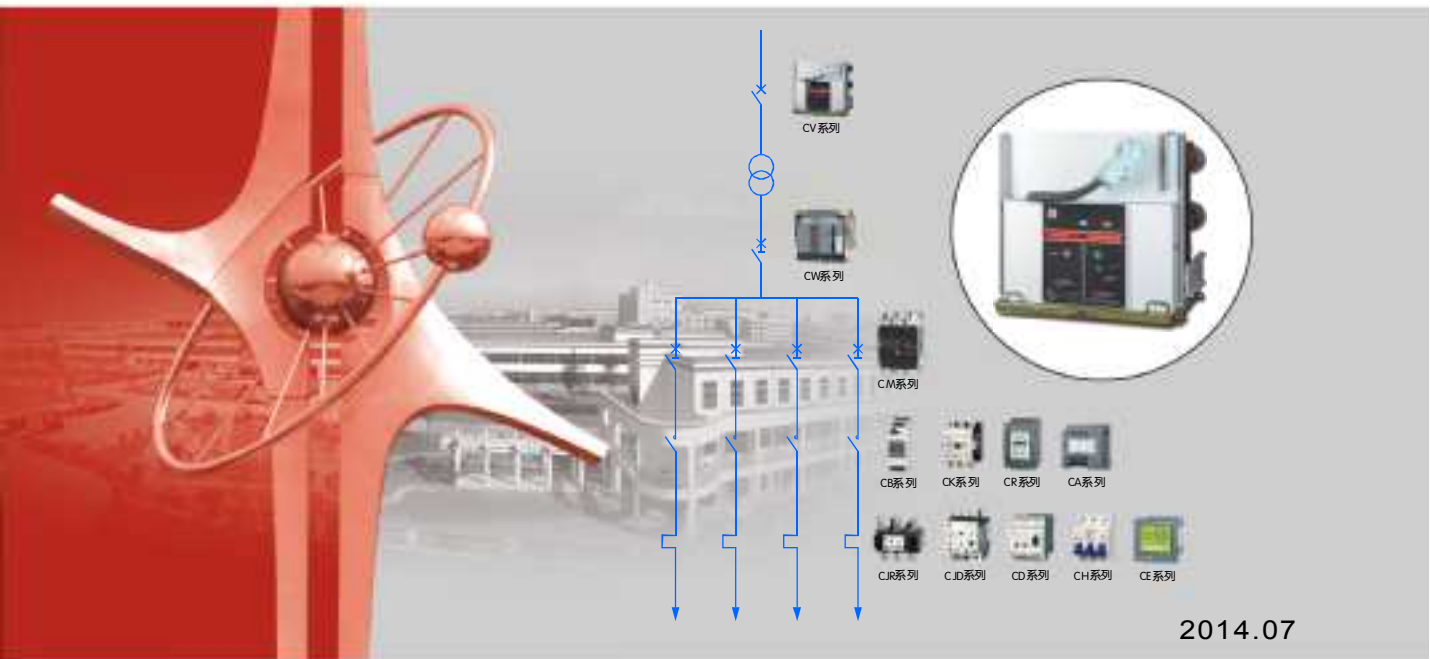




CV1-24户内高压真空断路器（绝缘筒式） CV2-24户内高压真空断路器（固封极柱式）

CV1-24 HIGH VOLTAGE INDOOR VCB (INSULATED TUBE)
CV2-24 HIGH VOLTAGE INDOOR VCB (SOLID-INSULATED-EMBEDDED POLE)



2014.07

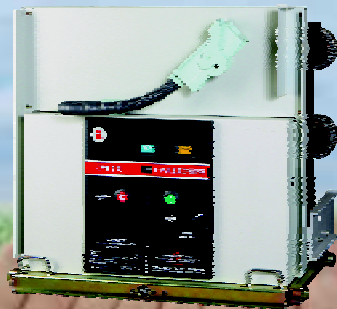
常熟开关制造有限公司
(原常熟开关厂)

CHANGSHU SWITCHGEAR MFG. CO.,LTD.
(FORMER CHANGSHU SWITCHGEAR PLANT)



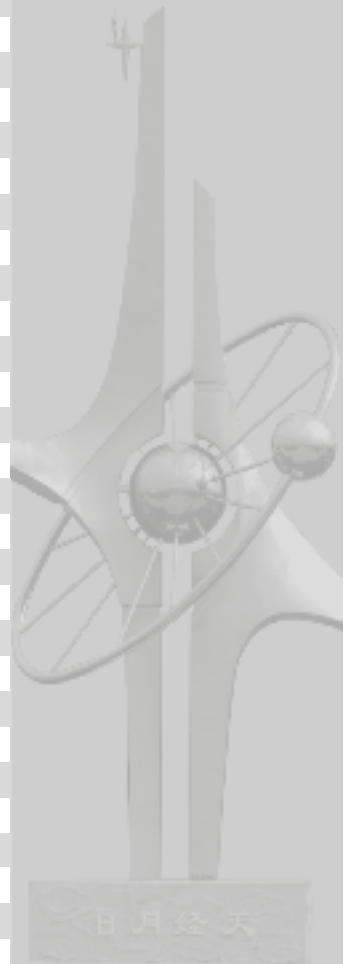
优秀特色

- 有固定式和手车式，手车式可适用于KYN28A-24等铠装中置柜，严格的配柜出厂试验确保互换性
- 额定工频耐受电压65kV/1min，断口间79kV/1min；额定雷电冲击耐受电压125kV，断口间145kV
- 额定短路开断电流25kA ~ 40kA，额定短时耐受电流25kA ~ 40kA/4s
- 采用国内一流厂商真空灭弧室，少维护，可靠性高，适用于频繁操作或多次开断短路电流
- 产品通过西安国家高压电器质量监督检验中心全项目型式试验
- 先进的在线生产检测线，规范的质量控制和管理，确保产品高质量
- 按GB 1984-2003 标准，具有延长电寿命E2级、延长机械寿命M2级和容性电流开合C2级



CONTENTS

概 述 General	1
型号含义 TYPE AND ITS MEANING	1
正常使用条件 NORMAL SERVICE CONDITION	2
结构性能特点 STRUCTURE FEATURE	3
基本技术参数 BASIC TECHNICAL PARAMETERS	4
附件 ACCESSORIES	5
外形尺寸及安装尺寸 OUTLINE DIMENSIONS AND MOUNTING DIMENSIONS	7
手车式接地方式 EARTHING MODE FOR WITHDRAWABLE TYPE	12
断路器内部电气接线原理图 CIRCUIT BREAKER INTERNAL ELECTRIC WIRING DIAGRAM	13
订货须知 ORDERING NOTICE	26





概述 General

CV1/CV2-24户内高压真空断路器（以下简称断路器）是本公司采用先进的CAD/CAM/CAE设计和制造技术，自行研制、开发的新一代高压真空断路器。该断路器用于交流50Hz、额定电压24kV及以下的电网中起控制和保护作用，广泛用于工矿企业、变电站等场所。

- 断路器额定电流630A~3150A；
- 断路器配装陶瓷真空灭弧室封装于绝缘筒内（CV1-24）或浇注于固封极柱内（CV2-24）；
- 断路器有固定式和手车式；
- 断路器可安装于KYN28A-24开关柜或配套于其它铠装中置柜；
- 断路器适用于重合闸操作，并可适用于频繁操作场所；
- 固定式断路器若需增加相应的联锁，请与本公司联系。
- 断路器符合以下标准：

IEC62271-1: 2007 GB/T11022-2011《高压开关设备和控制设备标准的共用技术要求》

IEC62271-100: 2001 GB 1984-2003《高压交流断路器》

JB/T3855~2008《高压交流真空断路器》

DL/T402-2007《高压交流断路器订货技术条件》

DL/T 403-2000《12kV~40.5kV高压真空断路器订货技术条件》

Q/GDW《20kV断路器技术规范》

CV1/CV2-24 High Voltage Indoor Vacuum Circuit Breakers(hereafter simply referred to as circuit breakers)are one of the new generation high vacuum circuit-breaker,which have been developed by the company,taking use of the advanced CAD/CAM/CAE designing and manufacturing technology.In the electric network of AC50Hz,rated voltage 24kV(or below),circuit breakers take the role of controlling and protecting,and it is mainly used in plants,substations etc.

- Rated current:630A~3150A;
- The breakers are installed ceramic explosion chamber enclosed in insulated tube (CV1-24) or pouring in solid-insulated-embedded (CV2-24) .
- The circuit breakers have fixed type and withdrawable type.
- The circuit breakers can be installed in the KYN28A-24 switchgear or other metal-cald center fixed switchgear.
- The circuit breakers can be used in re-closing and frequent operation stations.
- If the circuit breakers needed interlocking device,please telling our.
- The circuit breakers comply with the demands of the following standards:

IEC62271-1:2007 GB/T11022-2011《Common specifications high-voltage switchgear and controlgear standards》

IEC 62271-100:2001 GB 1984-2003《Highvoltage alternating current circuit breakers》

JB/T3855-2008《high-voltage alternating-current vacuum circuit-breaker》

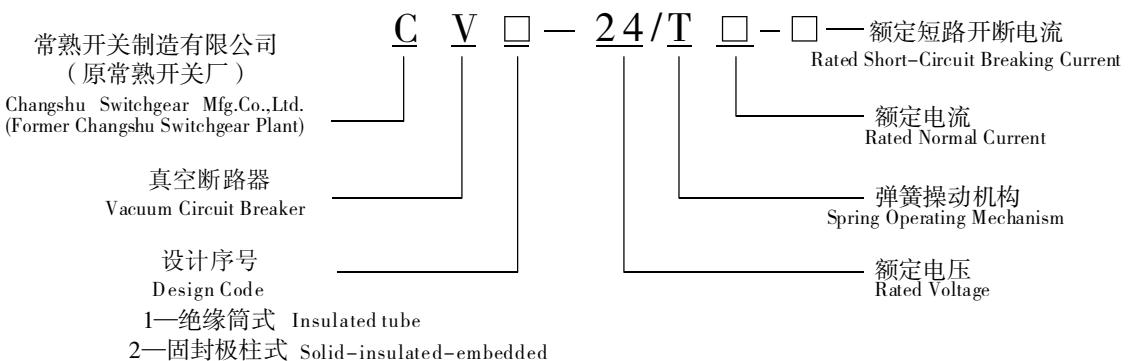
DL/T402~2007《specification of high-voltage alternating-current circuit-breaker》

DL/T403-2000《HV vacuum circuit breakers for rated voltage 12kV to 40.5kV》

Q/GDW《20kV circuit breakers technology normalization》



型号含义 TYPE AND ITS MEANING





正常使用条件 NORMAL SERVICE CONDITION

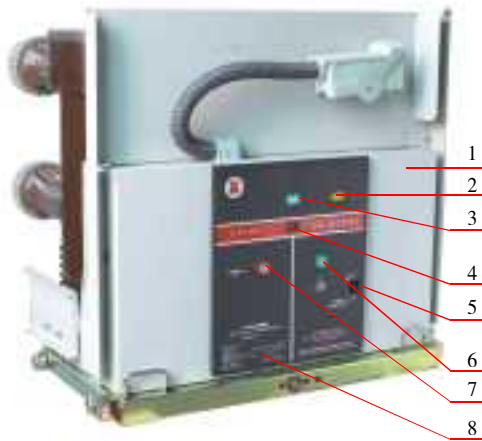
- 环境温度：最高温度+40℃，在24h内测得的平均值不超过+35℃，最低温度-5℃；
- 海拔不超过1000m；
- 周围空气没有明显地受到尘埃、烟、腐蚀性气体和/或可燃性气体、蒸汽和盐雾的污染；
- 环境湿度：日平均相对湿度不大于95%，日平均蒸气压不大于 2.2×10^{-3} MPa，月平均相对湿度不大于90%，月平均蒸气压不大于 1.8×10^{-3} MPa；
- 来自开关设备和控制设备外部的振动或地动可以忽略；

若用户使用的工作条件与正常使用条件有差异，如安装在海拔超过1000m，周围空气温度超过正常使用条件规定的限值或高温易产生凝露等地方，请与本公司联系。

- The ambient air temperature does not exceed 40℃ and its average value, measured over a period of 24 h, does not exceed 35℃. The minimum ambient air temperature is -5℃
 - The altitude does not exceed 1000 m
 - The ambient air is not significantly polluted by dust, smoke, corrosive and/or flammable gases, vapours of salt.
 - The average value of the relative humidity, measured over a period of 24 h, does not exceed 95%; The average value of the water vapour pressure, over a period of 24 h, does not exceed 2.2kPa; The average value of the relative humidity, over a period of one month, does not exceed 90%; The average value of the water vapour pressure, over a period of one month, does not exceed 1.8 kPa.
 - Vibration due to causes external to the switchgear and controlgear or earth tremors are negligible.
- If the service conditions are different from normal service conditions. For example: altitude is more than 1000 m ambient temperature is more than limit value which prescribed in normal service conditions or dew on product surface due to high temperature, please consult with our company to acquire consistent opinion.



- 断路器为整体式结构，断路器本体与操动机构连成一体。
- Circuit breakers structure is whole type. The body and operating mechanism join together.



- | | |
|--------------|--|
| 1. 面板 | 1. Panel |
| 2. 储能状态指示 | 2. Stored energy indicating |
| 3. 断路器分合位置指示 | 3. Circuit breaker open/closed indicating |
| 4. 断路器动作计数器 | 4. Circuit breaker operating counter |
| 5. 手动储能操作孔 | 5. Operating hole for manual stored energy |
| 6. 手动合闸按钮 | 6. Handle closing pushbutton |
| 7. 手动分闸按钮 | 7. Handle opening pushbutton |
| 8. 铭牌 | 8. Nameplate |

- 断路器主体部分导电回路设置在用绝缘材料制成的绝缘筒内或固封极柱内，保护真空灭弧室免受外界环境和机械的损害。
- 成熟的弹簧操动机构性能稳定、操作可靠。
- 具有可靠的联锁装置，可以有效地防止各种误操作。
- 可手动和电动操作。
- 可选择固定式和手车式。
- The main body conductive circuit of circuit breaker is set in the insulated tube or solid-insulated-embedded pole made of insulative material to protect the vacuum interrupter against the pollution of external environment and mechanical damage.
- The mature spring operating mechanism works stably and operates reliably.
- Reliable interlock device to protect against misoperations.
- Manual and motor-driven operation.
- Fixed and withdrawable type chosen.



● 断路器技术参数

Circuit breaker technical parameters

项目 Item		单位 Unit	数据 Value	
型号 Type			CV1-24	CV2-24
额定电压 UrRatedvoltage		kV	24	
额定绝缘水平 Ratedinsulation voltage	1min工频耐压 Ud(有效值) Power-frequency withstandvoltagein 1minute(r.m.s.value)	对地、相间 Phase-to-earth、 betweenphases	kV	65
		断口间 acrossopenswitchingdevice	kV	79
	雷电冲击耐受 电压Up(峰值) lightningimpulse withstandvoltage (peakvalue)	对地、相间 Phase-to-earth、 betweenphases	kV	125
		断口间 acrossopenswitchingdevice	kV	145
额定频率frRatedfrequency		Hz	50	
额定电流IrRatednormalcurrent		A	630、1250、1600、 2000、2500、3150	630、1250、1600
额定短路开断电流Isc (有效值) Ratedshort-circuitbreakingcurrent(r.m.s.value)		kA	25、31.5、40	25、31.5
额定峰值耐受电流Ip Ratedpeakwithstandcurrent		kA	63、80、100	63、80
额定短路关合电流 Ratedshort-circuitmakingcurrent		kA	63、80、100	63、80
额定短时耐受电流Ik (有效值) Ratedshort-timewithstandcurrent(r.m.s.value)		kA	25、31.5、40	25、31.5
额定操作顺序 Ratedoperaingsequence		自动重合闸：O-0.3s-CO-180s-CO Automaticre-closing:O-0.3s-CO-180s-CO		
		非自动重合闸：O-180s-CO-180s-CO Non-automaticre-closing:O-180s-CO-180s-CO		
合闸和分闸装置额定电源电压Uop Ratedsupplyvoltageofclosingandopeningdevices		V	AC: 110、220; DC: 110、220	
辅助回路额定电源电压Ua Ratedsupplyvoltageofauxiliarycircuit		V	AC: 110、220; DC: 110、220	
额定短路开断电流开断次数 Ratedshort-circuitbreakingcurrentbreakingtimes		次 times	30 (40kA和3150-31.5为20)	20
机械寿命 Mechanicaldurability		次 times	10000	
分级：机械寿命/电寿命/容性电流开断 Class:mechanicaldurability/electricturability/breakingcapacitivecurrent			M2/E2/C2	



● 标配附件 Normally-deployed accessories

a) 合闸脱扣器 (HQ) Shunt closing release

可实现远方控制断路器合闸 Can remote circuit breaker to close

合闸脱扣器 (HQ)
Shunt closing release

额定电源电压 U_{op} (V) Rated supply voltage	AC220	DC220	AC110	DC110
动作电压 (V) Operating voltage	(0.85~1.1) U_{op}			
电流 (A) Current	1.67	1.67	3.33	3.33
合闸时间 (ms) Closing time	35~70			

b) 分闸脱扣器 (TQ) Shunt opening release

可实现远方控制断路器分闸 Can remote circuit breaker to open

分闸脱扣器 (TQ)
Shunt opening release

额定电源电压 U_{op} (V) Rated supply voltage	AC220	DC220	AC110	DC110
动作电压 (V) Operating voltage	(0.65~1.2) U_{op}			
瞬时电流 (A) Instantaneous current	1	1	2	2
分闸时间 (ms) Opening time	20~50			

c) 储能电机 (M) Charging motor

储能电机能对断路器操动机构的合闸弹簧自动进行储能操作。当断路器合闸完成后, 储能电机立即自动对合闸弹簧进行重新储能。在失电或是检修时, 合闸弹簧可被手动储能。

Charging motor can automatically charging for circuit breaker's operating mechanism closing spring. When circuit breaker finishing closing, charging motor once automatically re-charging for closing spring. when without electricity or repairing, closing spring may be charged by handle.

储能电机 (M)
Charging motor

额定电源电压 U_{op} (V) Rated supply voltage	AC220	DC220	AC110	DC110
动作电压 (V) Operating voltage	(0.85~1.1) U_{op}			
瞬时电流 (A) Instantaneous current	0.9	0.9	1.8	1.8
额定功率 (W) Rated power	80			
储能时间 (s) Charging time	≤15			



● 选择附件 Choice accessories

合闸闭锁电磁铁
Closing locking magnet

a) 合闸闭锁电磁铁 Closing locking magnet

只有当合闸闭锁电磁铁上电后，操动机构才能被合闸。

Only closing locking magnet with electricity, operating mechanism can be closed.

额定电源电压Ua (V) Rated Supply voltage	AC220	DC220	AC110	DC110
电阻 (Ω) Resistance	8600		4400	
额定功率 (W) Rated power	5.6		2.75	
电流 (mA) Current	26		25	

底盘车闭锁电磁铁
Truck locking magnet

b) 底盘车闭锁电磁铁 truck locking magnet

底盘车闭锁电磁铁是为防止控制电源未通电情况下断路器从试验位置摇进。该回路在控制电源通电时解除闭锁，在控制电源失电时闭锁。

Using truck locking magnet, can prevent circuit breaker from testing position to racking into when control supply without electricity. When control supply with electricity, locking magnet can be unlocked and when without electricity, it's locking.

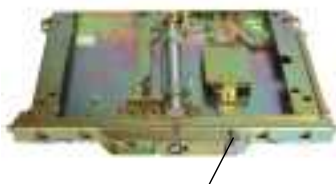
额定电源电压Ua (V) Rated Supply voltage	AC220	DC220	AC110	DC110
电阻 (Ω) Resistance	8600		4400	
额定功率 (W) Rated power	5.6		2.75	
电流 (mA) Current	26		25	

间接过电流脱扣器
Indirect over-current release

c) 间接过电流脱扣器 Indirect over-current release

与电流继电器配合使用 Matching current relay

种类 Item	二相式 (Y7、Y8) Two phases		三相式 (Y7、Y8、Y9) Three phases	
	动作电流 Operating current	5A	3.5A	5A

机械程序锁
Mechanical programmer lock

d) 机械程序锁 Mechanical programmer lock

实现两台手车式断路器间的位置联锁，即两台断路器中一台可以摇至工作位置时，另一台只能处于试验位置。

二台断路器配二把相同的锁和一把钥匙

Providing position interlocking of two withdrawable circuit breakers, when one of two circuit breakers is working position, else one is testing position.

Two circuit breakers are available with two same locks and one key.

e) 手车式与柜门联锁 Withdrawable interlocking with switchgear door

柜门关上后才能操作底盘车。

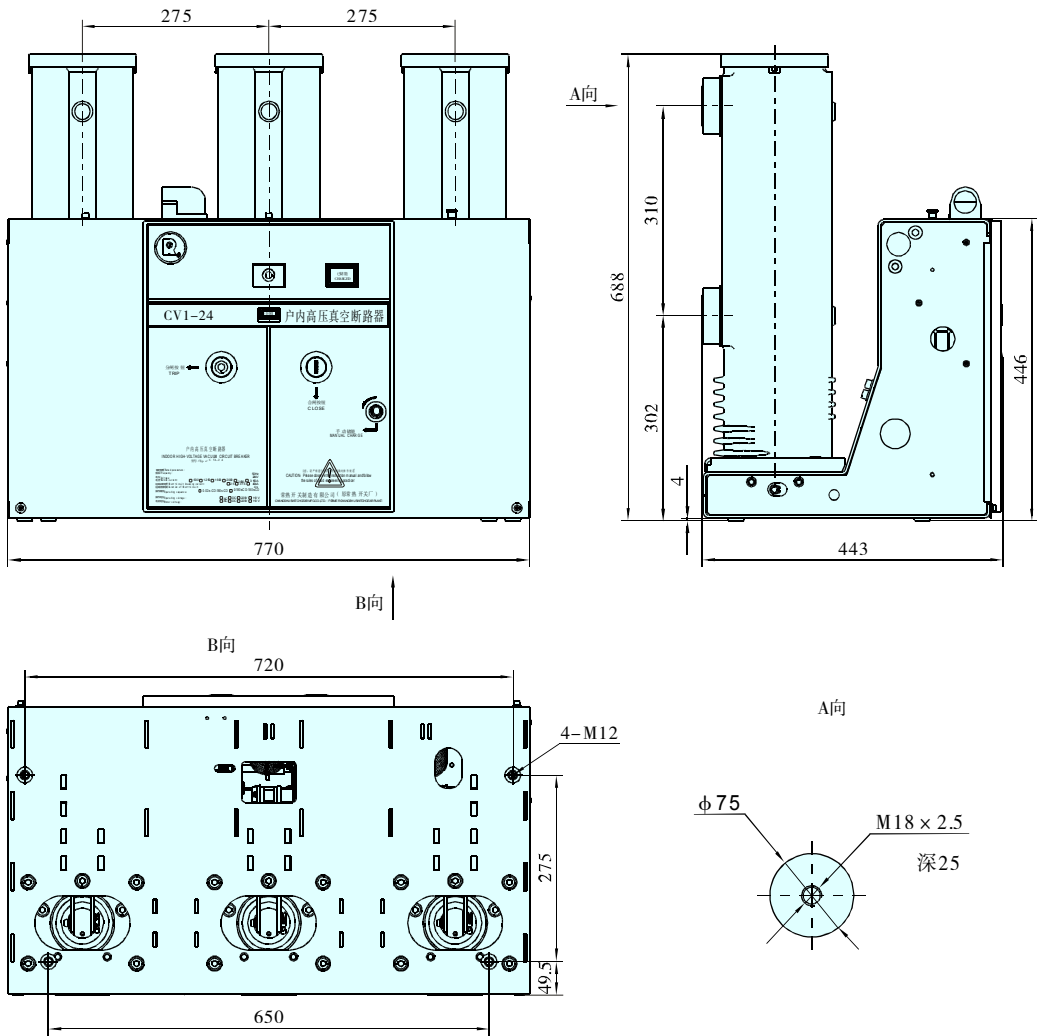
柜门关上后才能操作底盘车 + 断路器仅在试验位置时柜门才能打开。
after closing switchgear door, can operate truck.

after closing switchgear door, can operate truck and switchgear door can be opened when circuit breaker is testing position.



外形尺寸及安装尺寸 OUTLINE DIMENSIONS AND MOUNTING DIMENSIONS

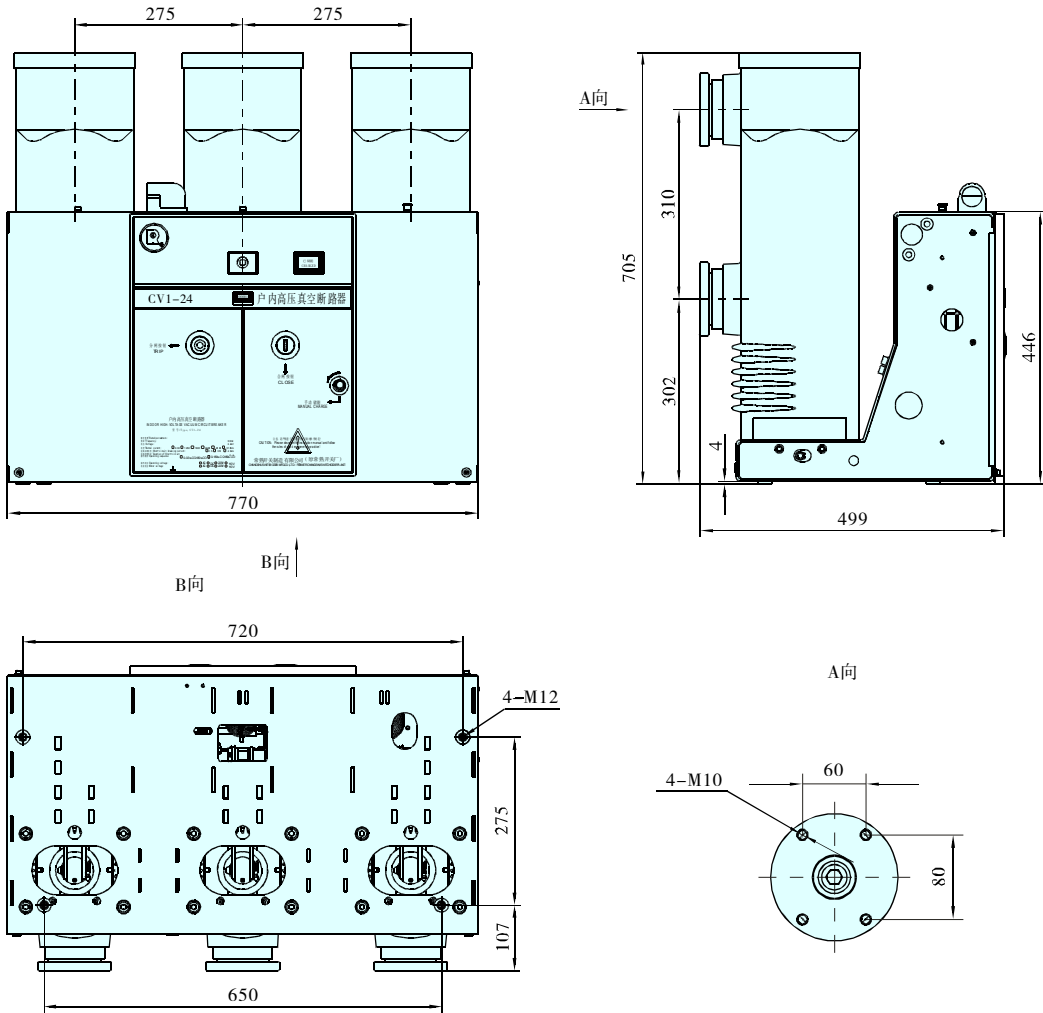
- 固定式 (CV1-24)
Fixed type



额定电流 (A) Rated normal current	630	1250
额定短路开断电流 (kA) Rated short-circuit breaking current	25、31.5	25、31.5



外形尺寸及安装尺寸 *OUTLINE DIMENSIONS AND MOUNTING DIMENSIONS*

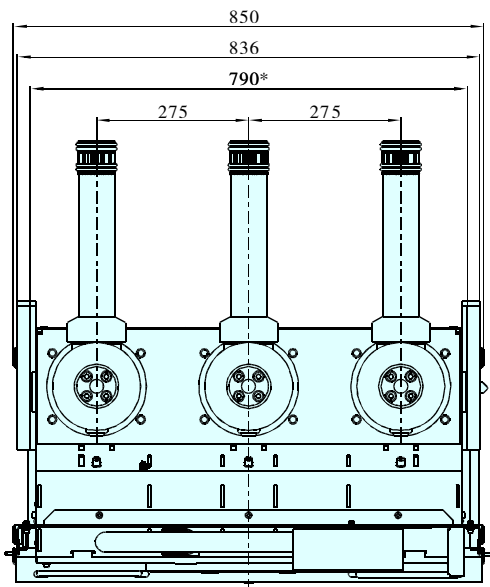
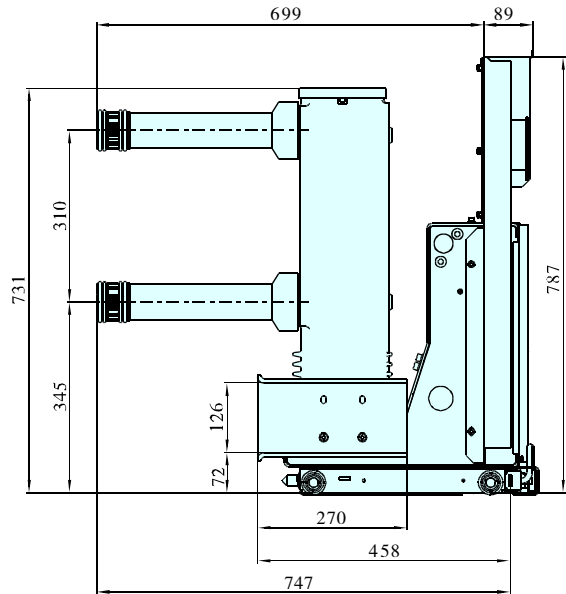
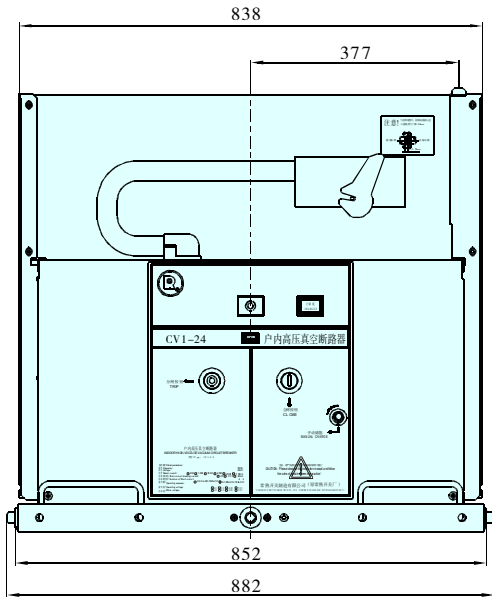


额定电流 (A) Rated normal current	1600	2000	2500	3150
额定短路开断电流 (kA) Rated short-circuit breaking current	25、31.5	31.5	31.5、40	31.5、40



外形尺寸及安装尺寸 OUTLINE DIMENSIONS AND MOUNTING DIMENSIONS

- 手车式
Withdrawable type



额定电流 (A) Rated normal current	630	1250
额定短路开断电流 (kA) Rated short-circuit breaking current	25、31.5	25、31.5
配合静触头尺寸 (mm) Dimensions of matching static contacts	$\phi 35^{+0.62}_0$	$\phi 49^{+0.62}_0$

备注：配合静触头的头部需要挤压，表面镀银。
Note: Top of matching static contacts is pressed and face must be silverized.

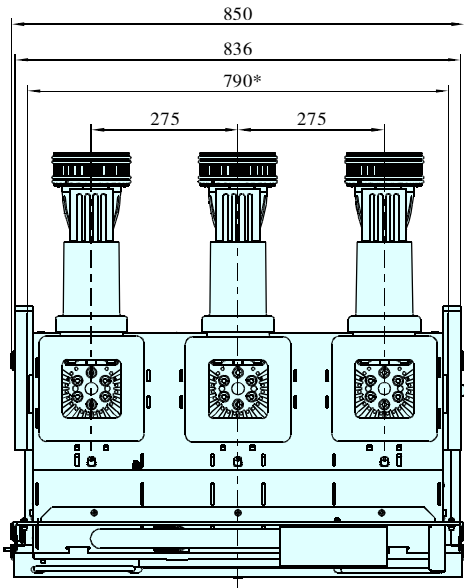
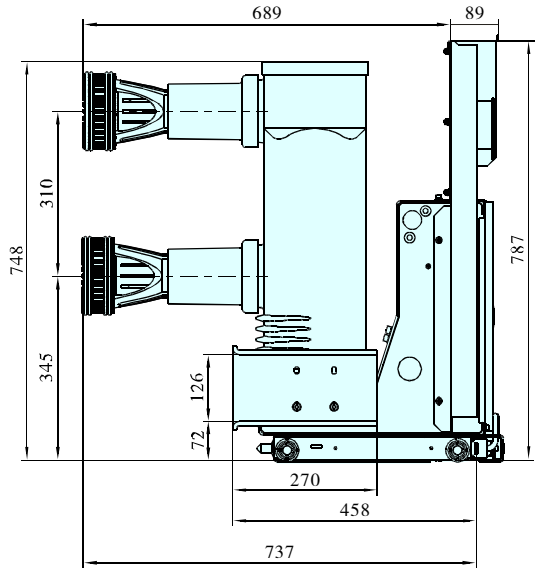
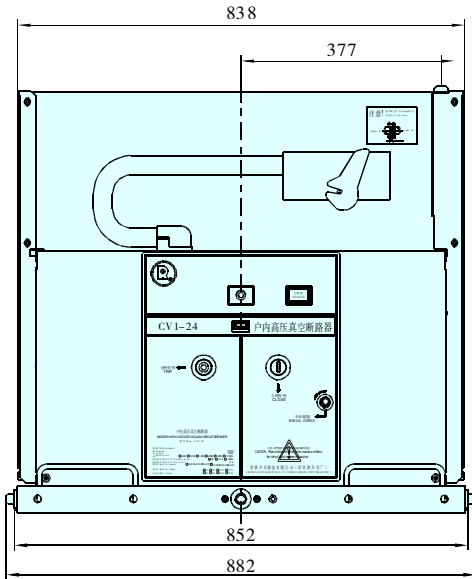
CV1-24

注：790mm为左右侧活门推板间距。

Note: 790mm is distance between left with right shutter pushing-plate.



外形尺寸及安装尺寸 OUTLINE DIMENSIONS AND MOUNTING DIMENSIONS



额定电流 (A) Rated normal current	1600	2000	2500	3150
额定短路开断电流 (kA) Rated short-circuit breaking current	25、31.5	31.5	31.5、40	31.5、40
配合静触头尺寸 (mm) Dimensions of matching static contacts	$\phi 79_{-0.74}$		$\phi 109_{+0.87}^0$	

备注：配合静触头的头部需要挤压，表面镀银。

Note: Top of matching static contacts is pressed and face must be silverized.

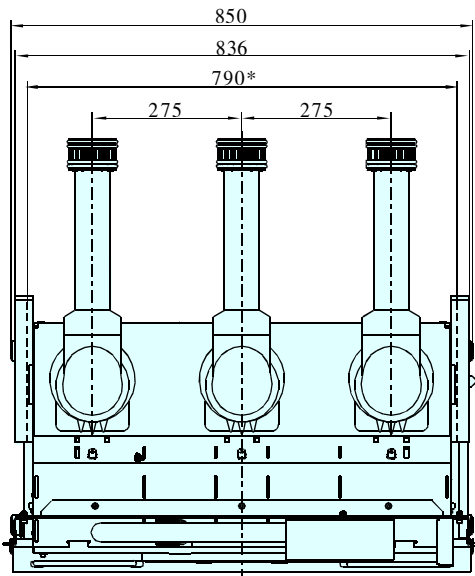
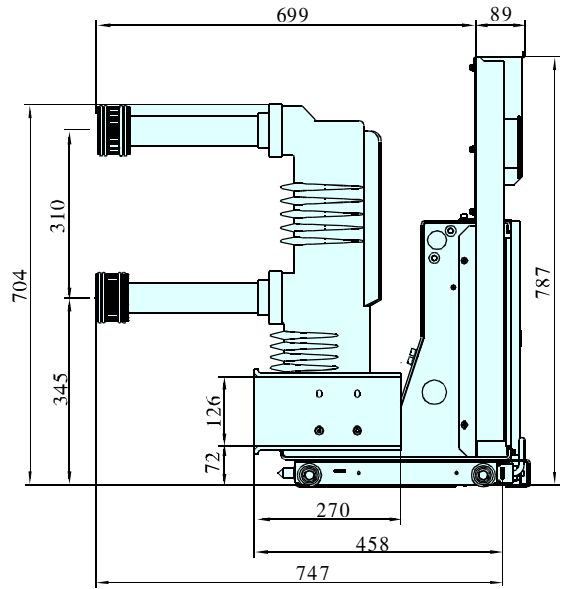
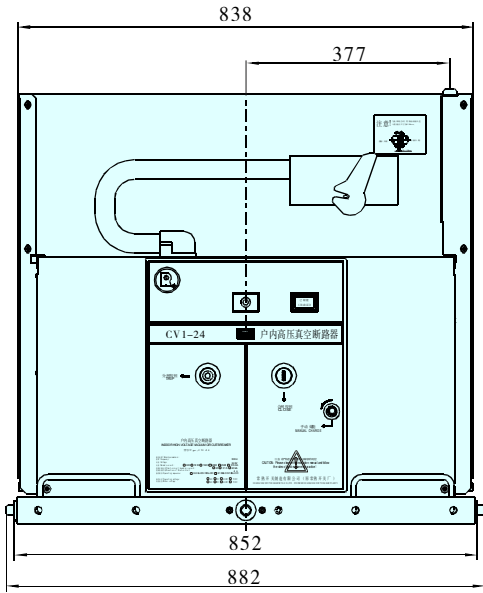
注：790mm为左右侧活门推板间距。

Note: 790mm is distance between left with right shutter pushing-plate.

CV1-24



外形尺寸及安装尺寸 OUTLINE DIMENSIONS AND MOUNTING DIMENSIONS



额定电流 (A) Rated normal current	630	1250	1600
额定短路开断电流 (kA) Rated short-circuit breaking current	25、31.5	25、31.5	25、31.5
配合静触头尺寸 (mm) Dimensions of matching static contacts	φ 35	φ 49	φ 79

备注：配合静触头的头部需要挤压，表面镀银。
Note: Top of matching static contacts is pressed and face must be silverized.

CV2-24

注：790mm为左右侧活门推板间距。

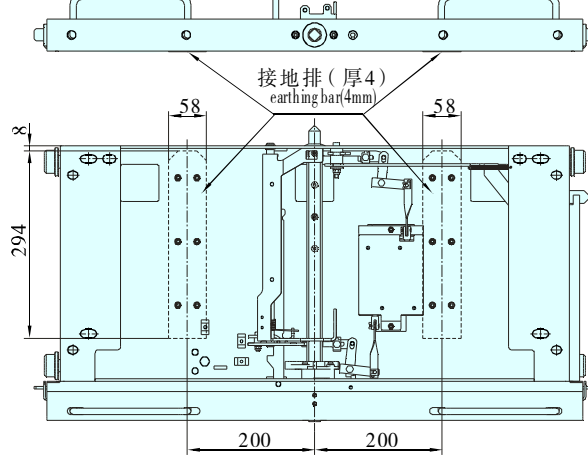
Note: 790mm is distance between left with right shutter pushing-plate.



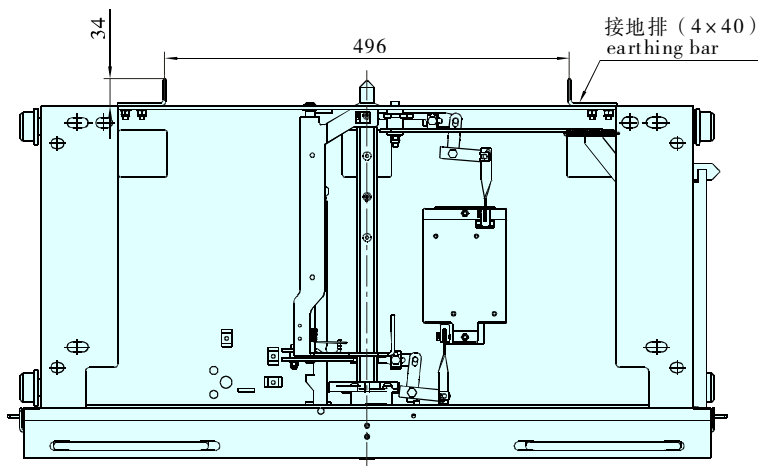
手车式接地方式 EARTHING MODE FOR WITHDRAWABLE TYPE

● 接地方式 earthing mode

a) 常规接地方式（接地排接地） normal earthing mode(earthing bar grounded)



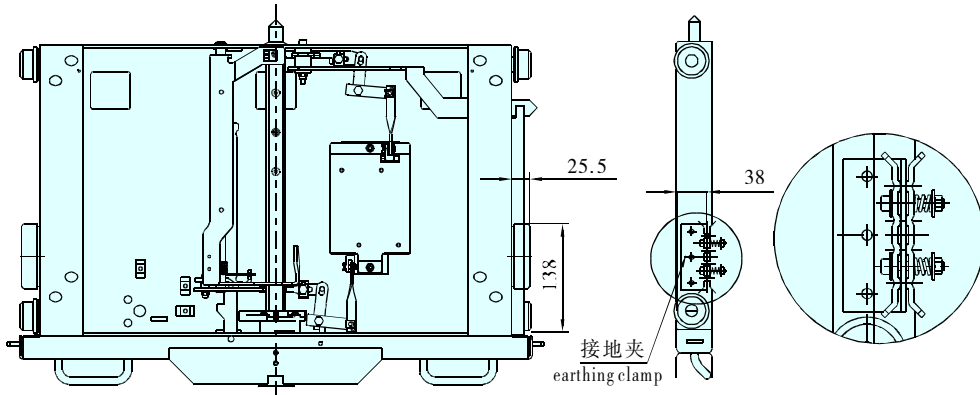
b) 特殊接地方式1（接地触头接地） Special earthing mode 1 (earthing contact grounded)



c) 特殊接地方式2（接地夹接地） Special earthing mode 2 (earthing clamp grounded)

注：必须与专用导轨配合使用

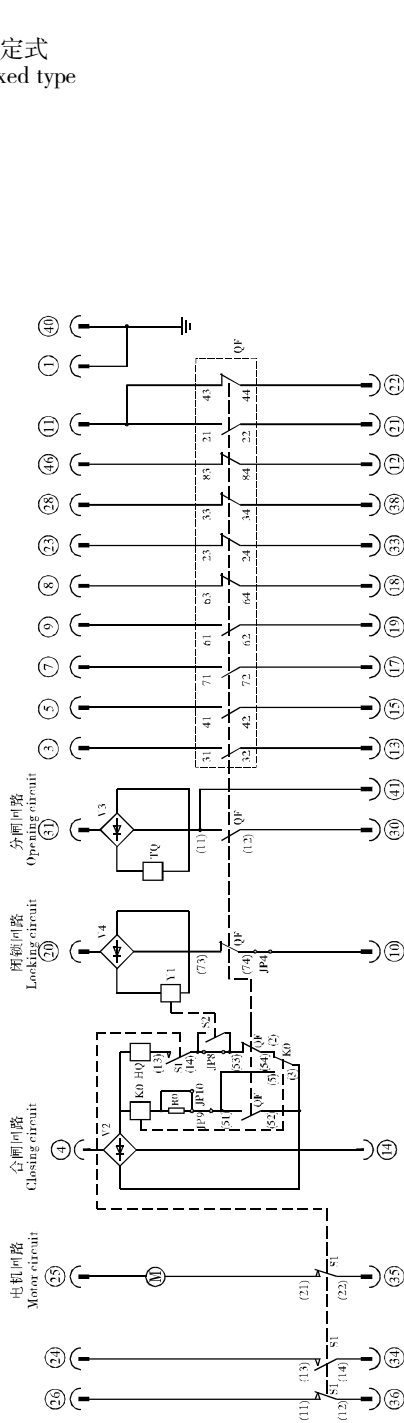
Note: must be matched with special rail.





断路器内部电气接线原理图 CIRCUIT BREAKER INTERNAL ELECTRIC WIRING DIAGRAM

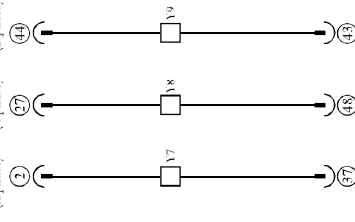
● 固定式 Fixed type



可选件接线设置
Selective wiring device

设备 Equipment	跳线状态 Status of wire jumper	JP9	JP8	JP4
带闭锁 With anti-pumping	带闭锁 with locking device	有 With	有 With	有 With
无闭锁 Without anti-pumping	无闭锁 without locking device	无 Without	无 Without	无 Without
带闭锁 With anti-pumping	带闭锁 with locking device	有 With	有 With	有 With
无闭锁 Without anti-pumping	无闭锁 without locking device	无 Without	无 Without	无 Without

过电流脱扣(A相)和(C相)
Over-current release (A phase)



说明：
图示位置为断路器未储能，分闸状态。

说明：
As indicated in the diagram, C.V.I circuit breaker is open and discharged.

- TQ: 分闸脱扣器
- Y1: 闭锁线圈 (可选)
- V2 ~ V4: 整流桥 (控制电压为直流时)
- R0: 电阻
- K0: 防跳继电器 (可选)
- JP4、JP8 ~ JP10: 跳线

- S2: 辅助开关
- S1: 辅助开关 (合闸弹簧储能后切换)
- QF: 辅助开关 (分合操作时切换)
- M: 储能电机
- Y7 ~ Y9: 间接式过电流脱扣器 (可选)
- HQ: 合闸脱扣器

操作电源选择
Selection of operating supply

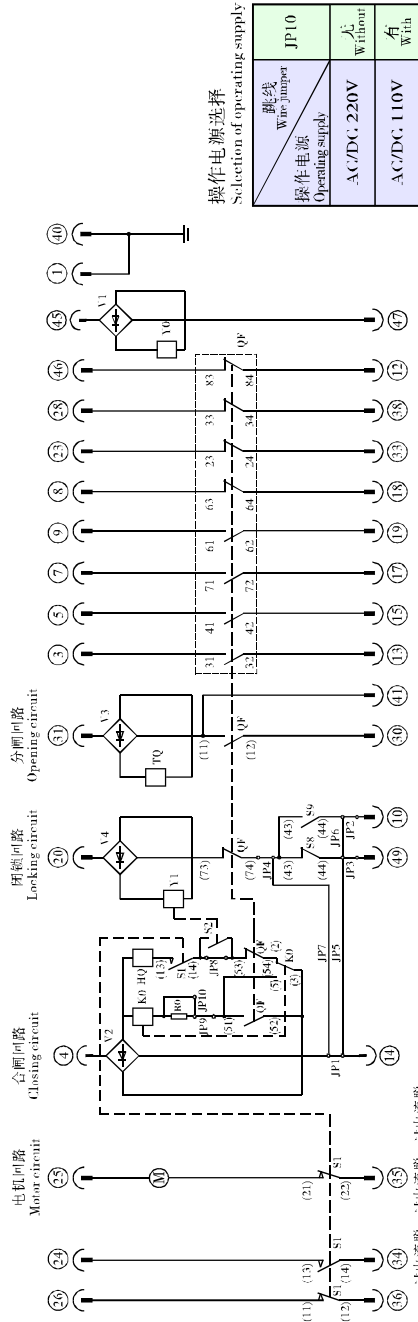
跳线 Wire jumper	JP10
操作电源 Operating supply	AC/DC 220V
	AC/DC 110V

- TQ: shunt opening release
- Y1: Locking coil (optional)
- V2 ~ V4: Rectifying bridge (no when DC controlling voltage)
- R0: Resistance
- K0: Anti-pumping relay (optional)
- JP4、JP8 ~ JP10: Wire jumper
- S2: Auxiliary switch
- S1: Auxiliary switch (switch over after spring charged)
- QF: Auxiliary switch (operate when switch is on and off)
- M: Charging motor
- Y7 ~ Y9: Indirect over-current release (optional)
- HQ: Shunt closing release



断路器内部电气接线原理图 *CIRCUIT BREAKER INTERNAL ELECTRIC WIRING DIAGRAM*

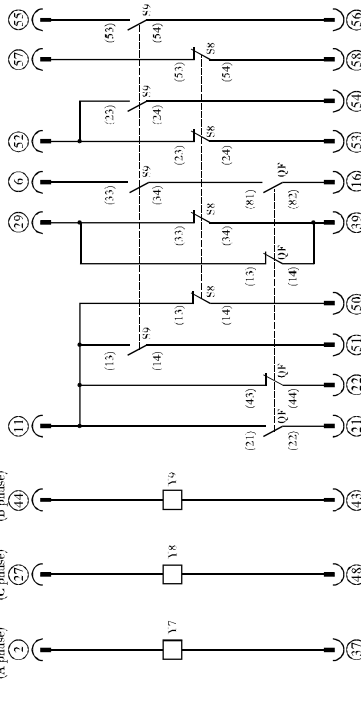
- 手车式
Withdrawable type
标准方案 standard scheme



可选件接线设置
Selective wiring device

配置 Equipment	跳线状态 Status of wire jumper	JP1	JP2	JP3	JP4	JP5	JP6	JP7	JP8	JP9
带闭锁 with locking device	带闭锁 with locking device	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With
无闭锁 without locking device	无闭锁 without locking device	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without
带闭锁 with locking device	带闭锁 with locking device	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With
无闭锁 without locking device	无闭锁 without locking device	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without

- S9: 辅助开关 (当断路器在工作位置时切换)
S8: 辅助开关 (当断路器在试验位置时切换)
S2: 辅助开关
S1: 辅助开关 (合闸弹簧储能后切换)
QF: 辅助开关 (分合操作时切换)
M: 储能电机
Y7 ~ Y9: 间接式过电流脱扣器 (可选)
- HQ: 合闸脱扣器
TQ: 分闸脱扣器
Y0: 底座车闭锁电磁铁 (可选)
Y1: 闭锁线圈 (可选)
V1 ~ V4: 整流桥 (控制电压为直流时充)
R0: 电阻
K0: 防跳继电器 (可选)
JP1 ~ JP10: 跳线
- HQ: Shunt closing release
TQ: Shunt opening release
Y0: truck locking magnet (optional)
Y1: Locking coil (optional)
V1 ~ V4: Rectifying bridge (no when DC controlling voltage)
R0: Resistance
K0: Anti-pumping relay (optional)
JP1 ~ JP10: Wire jumper



说明:
图示位置为断路器处于试验位置, 未储能, 分闸状态。
Illuminations:
As indicated in the diagram, circuit breaker is Open at the testing position and discharged.



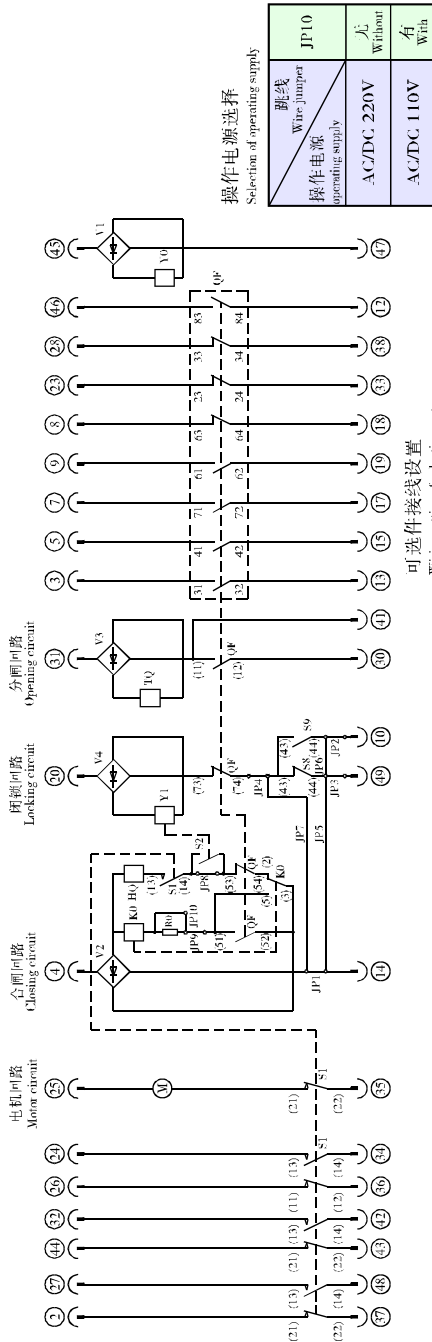
断路器内部电气接线原理图

CIRCUIT BREAKER INTERNAL ELECTRIC WIRING DIAGRAM

● 手车式

非标准方案06/S1: 3开3闭

Non-standard scheme 06/S1:3N03NC



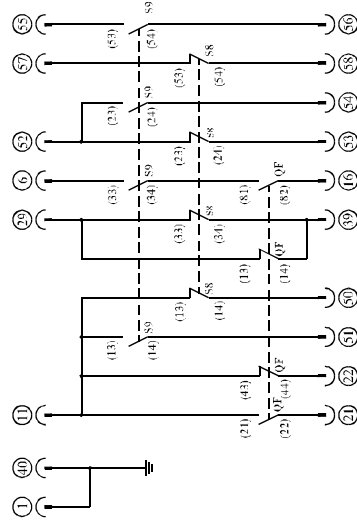
操作电源选择

操作电源 operating supply	跳线 Wire jumper	JP10
AC/DC 220V	有	无
AC/DC 110V	有	有

可选件接线设置
Wiring setting of selective parts

配置 Equipment	带防跳 With anti-pumping	无防跳 Without anti-pumping	带闭锁 With locking device	无闭锁 Without locking device	带闭锁 With locking device	无闭锁 Without locking device	JP1	JP2	JP3	JP4	JP5	JP6	JP7	JP8	JP9
带防跳 With anti-pumping	有	无	有	无	有	无	有	有	有	有	有	有	有	有	有
无防跳 Without anti-pumping	无	有	无	有	无	有	无	无	无	无	无	无	无	无	无
带闭锁 With locking device	有	有	有	有	有	有	有	有	有	有	有	有	有	有	有
无闭锁 Without locking device	无	无	无	无	无	无	无	无	无	无	无	无	无	无	无

- S9: 微动开关 (当断路器在工作位置时切换)
- S8: 微动开关 (当断路器在试验位置时切换)
- S2: 微动开关
- S1: 微动开关 (合闸弹簧储能后切换)
- QF: 辅助开关 (分合操作时切换)
- M: 储能电机
- HQ: 合闸脱扣器
- TO: 分闸脱扣器
- YO: 底座车钩电磁锁 (可选)
- Y1: 线圈线圈 (可选)
- V1~V4: 整流桥 (控制电压为直流时尤)
- R0: 电阻
- K0: 防跳继电器 (可选)
- JP1~JP10: 跳线
- HQ: shut closing release
- TO: shut opening release
- YO: hook locking magnet(optional)
- Y1: Locking coil(optional)
- V1~V4: Rectifying bridge (no when DC controlling voltage)
- R0: Resistance
- K0: Anti-pumping relay(optional)
- JP1~JP10: Wire jumper



说明:
图尔位置为断路器处于试验位置, 未储能, 分闸状态
Illumination:
As indicated in the diagram, circuit breaker is open at the resting position and discharged.

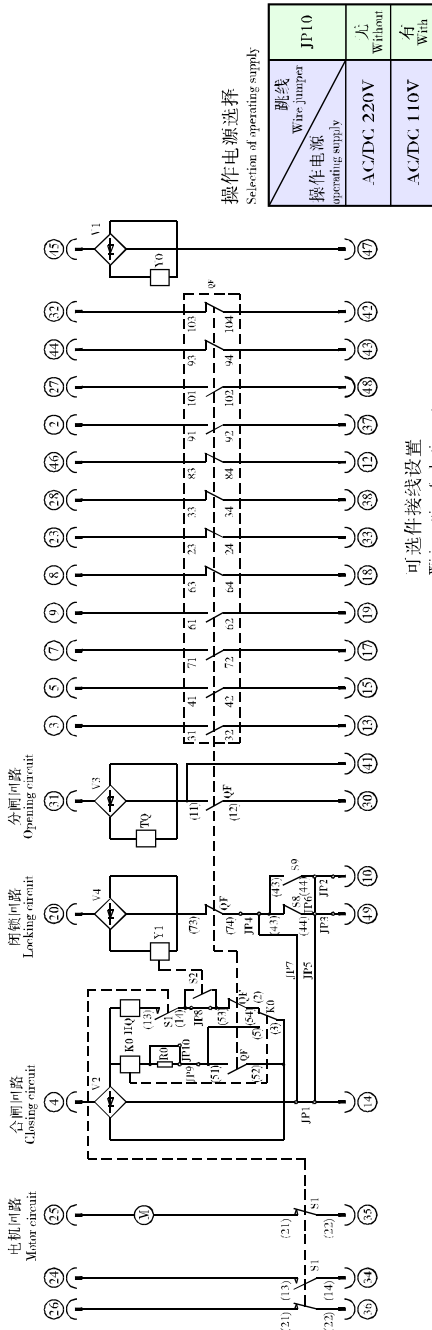


断路器内部电气接线原理图

CIRCUIT BREAKER INTERNAL ELECTRIC WIRING DIAGRAM

● 手车式

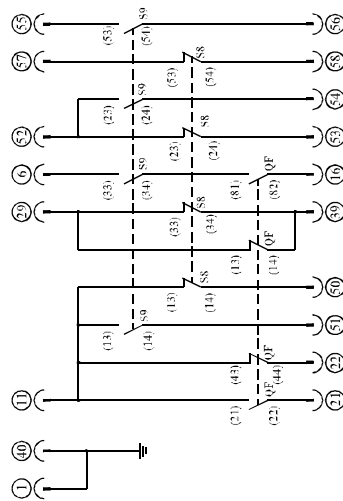
非标准方案07/QF: 7开7闭
Non-standard scheme 07/QF: 7NO7NC



可选件接线设置
Wiring setting of selective parts

配置 Equipment	带防跳 With anti-pumping	无防跳 Without anti-pumping	带闭锁 With locking device	无闭锁 Without locking device	带闭锁 With locking device	无闭锁 Without locking device	跳线 Wire jumper	JP1	JP2	JP3	JP4	JP5	JP6	JP7	JP8	JP9
带防跳 With anti-pumping	有 With	无 Without	有 With	无 Without	有 With	无 Without	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With
无防跳 Without anti-pumping	无 Without	有 With	无 Without	有 With	无 Without	有 With	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without
带闭锁 With locking device	有 With	无 Without	有 With	无 Without	有 With	无 Without	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With
无闭锁 Without locking device	无 Without	有 With	无 Without	有 With	无 Without	有 With	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without

- S9: 微动开关 (当断路器在工作位置时切换)
- S8: 微动开关 (当断路器在试验位置时切换)
- S2: 微动开关
- S1: 微动开关 (合闸弹簧储能后切换)
- QF: 辅助开关 (合分操作时切换)
- M: 储能电机
- HQ: 合闸脱扣器
- TQ: 分闸脱扣器
- Y0: 底座车闭锁电磁铁 (可选)
- Y1: 闭锁线圈 (可选)
- V1 ~ V4: 整流桥 (控制电压为直流时尤)
- R0: 电阻
- K0: 防跳继电器 (可选)
- JP1 ~ JP10: 跳线
- HQ: start closing release
- TQ: start opening release
- Y0: lock locking magnet(optional)
- Y1: Locking coil(optional)
- V1-V4: Rectifying bridge (no when DC controlling voltage)
- R0: Resistance
- K0: Anti-pumping relay(optional)
- JP1-JP10: Wire jumper



说明:
图6示位置为断路器处于试验位置, 未储能, 分闸状态
Illuminations:
As indicated in the diagram, circuit breaker is open at the testing position and discharged.

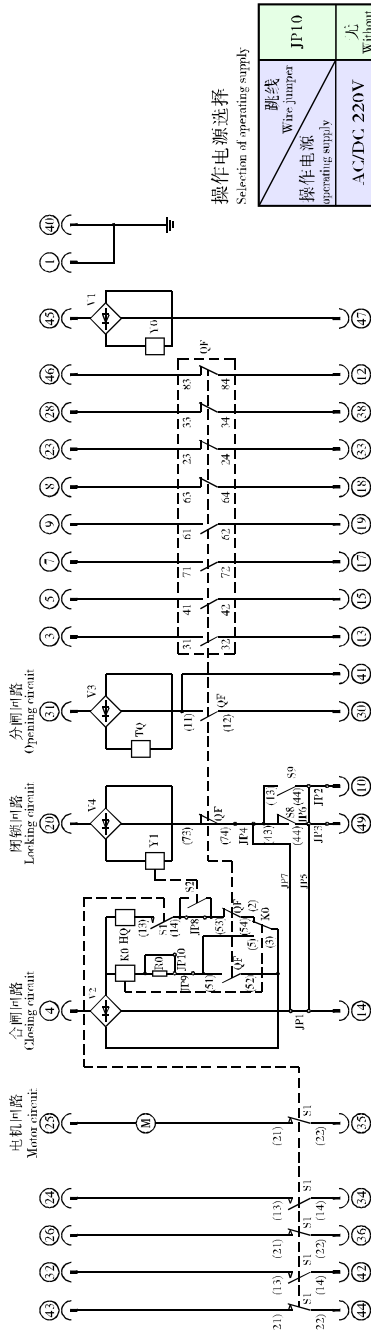


断路器内部电气接线原理图

CIRCUIT BREAKER INTERNAL ELECTRIC WIRING DIAGRAM

● 手车式

非标准方案08/S1: 2开2闭
Non-standard scheme 08/S1:2NO2NC



操作电源选择
Selection of operating supply

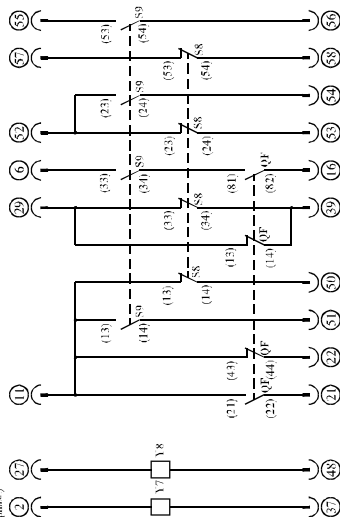
跳线 Wire jumper	JP10
操作电源 operating supply	无 Without
	有 With
AC/DC 220V	无 Without
AC/DC 110V	有 With

可选件接线设置
Wiring setting of selective parts

配置 Equipment	带防跳 With anti-pumping	无防跳 Without anti-pumping	带闭锁 With locking device	无闭锁 Without locking device	带闭锁 With locking device	无闭锁 Without locking device	跳线 Wire jumper	JP1	JP2	JP3	JP4	JP5	JP6	JP7	JP8	JP9
带防跳 With anti-pumping	有 With	无 Without	有 With	无 Without	有 With	无 Without	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With
无防跳 Without anti-pumping	无 Without	有 With	无 Without	有 With	无 Without	有 With	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without

- HQ: 合闸脱扣器
- TQ: 分闸脱扣器
- Y0: 底座车闭锁电磁铁 (可选)
- Y1: 闭锁线圈 (可选)
- Y1~Y4: 整流桥 (控制电压为直流时无)
- R0: 电阻
- K0: 防跳继电器 (可选)
- JP1~JP10: 跳线
- HQ: shunt closing release
- TQ: shunt opening release
- Y0: truck locking magnet(optional)
- Y1: Locking coil(optional)
- Y1~Y4: Rectifying bridge (no when DC controlling voltage)
- R0: Resistance
- K0: Anti-pumping relay(optional)
- JP1-JP10: Wire jumper

过电流脱扣
和 (S8) 扣 (S8) 扣 (S8)
Over-current release (S phase)



说明:

图示位置为断路器处于试验位置, 未储能, 分闸状态

As indicated in the diagram, circuit breaker is open at the testing position and discharged.

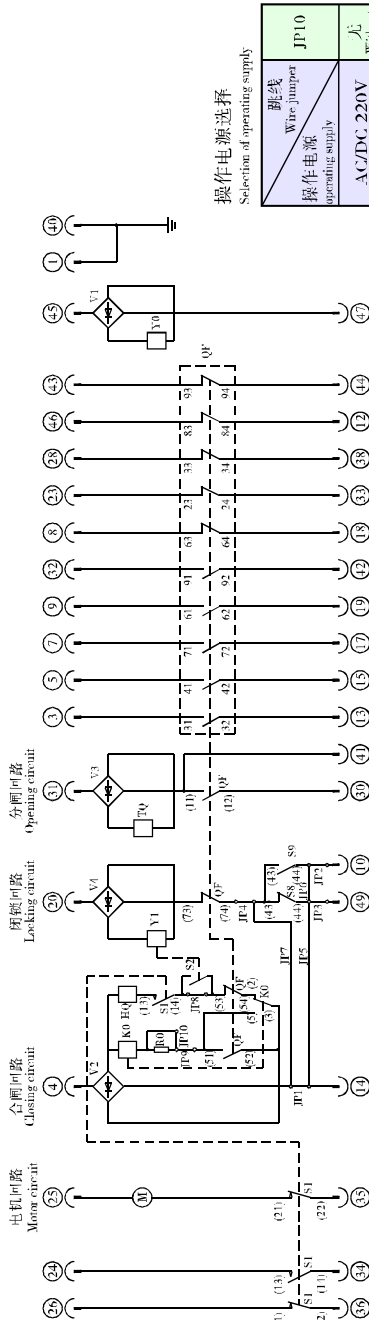


断路器内部电气接线原理图

CIRCUIT BREAKER INTERNAL ELECTRIC WIRING DIAGRAM

● 手车式

非标准方案09/QF: 6开6闭
Non-standard scheme 09/QF:6NO6NC



操作电源选择

操作电源 operating supply	跳线 Wire jumper	JP10
AC/DC 220V	无	无
AC/DC 110V	有	有

可选件接线设置

Wiring setting of selective parts

配置 Equipment	跳线 Wire jumper		JP1	JP2	JP3	JP4	JP5	JP6	JP7	JP8	JP9
	带闭锁 With anti-pumping	带闭锁 With locking device									
带防跳 With anti-pumping	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With
无防跳 Without anti-pumping	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without
带闭锁 With locking device	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With
无闭锁 Without locking device	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without
无防跳 Without anti-pumping	有 With	无 Without	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With
带闭锁 With locking device	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With
无闭锁 Without locking device	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without

- S9: 微动开关 (当断路器在工作位置时切换)
- S8: 微动开关 (当断路器在试验位置时切换)
- S2: 微动开关
- S1: 微动开关 (合闸弹簧储能后切换)
- QF: 辅助开关 (分合操作时切换)
- M: 储能电机
- Y7 ~ Y8: 间接过电流脱扣器 (可选)
- HQ: 合闸脱扣器
- TQ: 分闸脱扣器
- Y0: 底座车闭锁电磁铁 (可选)
- Y1: 闭锁线圈 (可选)
- V1 ~ V4: 整流桥 (控制电压为直流时无)
- R0: 电阻
- K0: 防跳继电器 (可选)
- JP1 ~ JP10: 跳线

说明:

图示位置为断路器处于试验位置、未储能、分闸状态

Illumination:
As indicated in the diagram, circuit breaker is open at the testing position and discharged



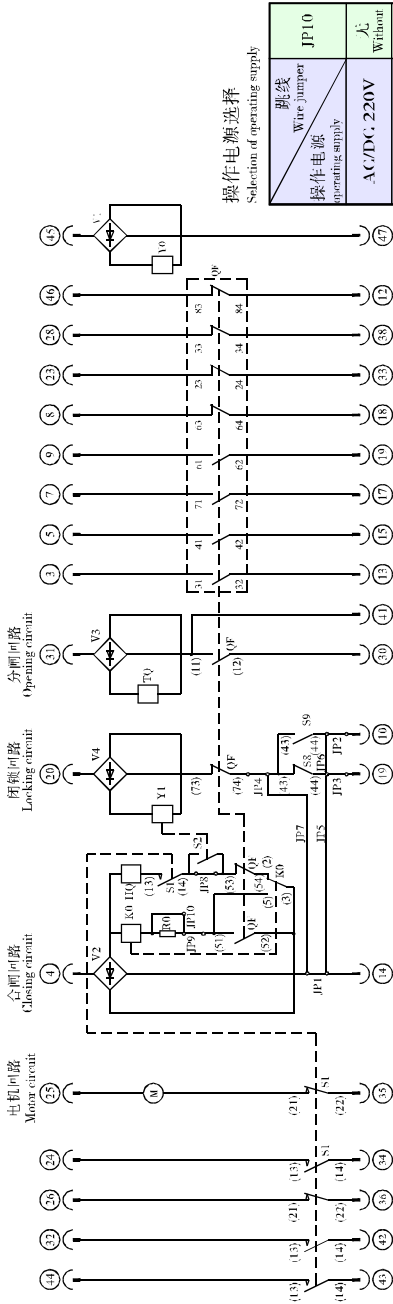
断路器内部电气接线原理图

CIRCUIT BREAKER INTERNAL ELECTRIC WIRING DIAGRAM

● 手车式

非标准方案10/S1: 3开1闭

Non-standard scheme 10/S1:3NO1NC



可选件接线设置
Wiring setting of selective parts

配置 Equipment	跳线 Wire jumper		JP1	JP2	JP3	JP4	JP5	JP6	JP7	JP8	JP9
	带防跳 With anti-pumping	无防跳 Without locking device									
带防跳 With anti-pumping	有 With	无 Without	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With
无防跳 Without anti-pumping	有 With	有 With	有 With	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without
无防跳 Without anti-pumping	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With
无防跳 Without anti-pumping	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With

HQ: 合闸脱扣器

TQ: 分闸脱扣器

Y0: 底座车闪频电磁铁 (可选)

Y1: 线圈线圈 (可选)

V1 ~ V4: 整流桥 (控制电压为直流时尤)

R0: 电阻

K0: 防跳继电器 (可选)

JP1 ~ JP10: 跳线

HQ: shut closing release

TQ: shut opening release

Y0: mark locking magnet(optional)

Y1: Locking coil(optional)

V1-V4: Rectifying bridge (no when DC controlling voltage)

R0: Resistance

K0: Anti-pumping relay(optional)

JP1-JP10: Wire jumper

过电流脱扣 (CMB)
Over-current release (C phase)
过电压脱扣 (C phase)
Over-voltage release (C phase)

说明:

图示位置为断路器处于试验位置、未储能、分闸状态

Illuminations:

As indicated in the diagram, circuit breaker is open at the testing position and discharged.

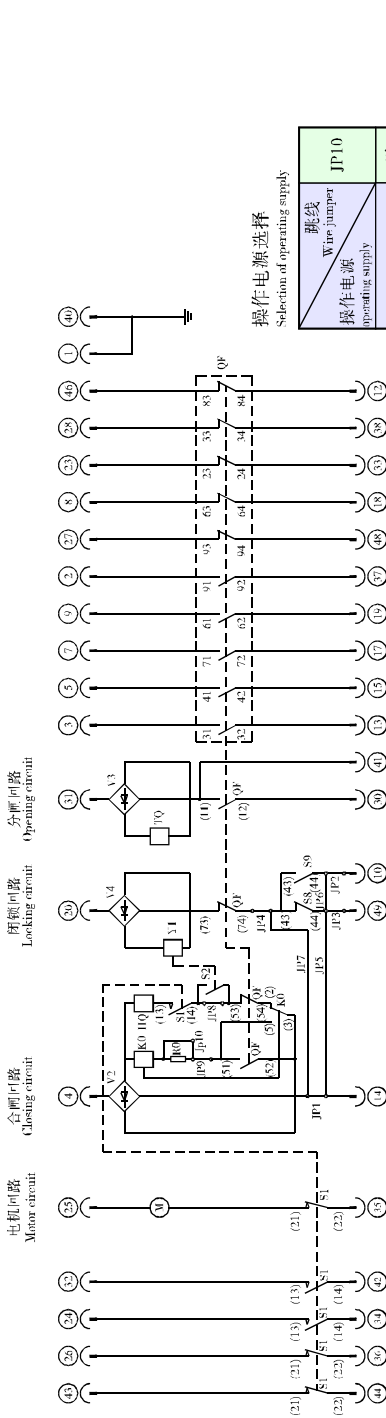


断路器内部电气接线原理图

CIRCUIT BREAKER INTERNAL ELECTRIC WIRING DIAGRAM

● 手车式

非标准方案11/S1: 2开2闭; OF: 6开6闭
Non-standard scheme 11/S1:2N02NC;QF:6N06NC



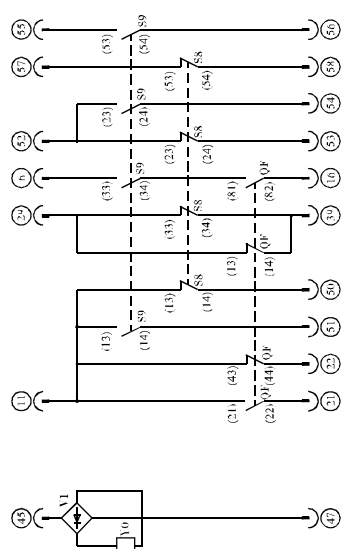
操作电源选择
Selection of operating supply

跳线 Wire jumper	JP10	无 Without	有 With
操作电源 operating supply	AC/DC: 220V	无 Without	有 With
	AC/DC: 110V	无 Without	有 With

可选件接线设置
Wiring setting of selective parts

设备 Equipment	跳线 Wire jumper		JP1	JP2	JP3	JP4	JP5	JP6	JP7	JP8	JP9
	带防跳 With anti-pumping	带闭锁 With locking device									
带防跳 With anti-pumping	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With
无防跳 Without anti-pumping	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without
带闭锁 With locking device	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With
无闭锁 Without locking device	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without

- S9: 微动开关 (当断路器在工作位置时切换)
- S8: 微动开关 (当断路器在试验位置时切换)
- S2: 微动开关 (合闸弹簧储能后切换)
- S1: 微动开关 (分合操作时切换)
- QF: 辅助开关 (分合操作时切换)
- M: 储能电机
- HV: 合闸脱扣器
- TV: 分闸脱扣器
- Y0: 底座牢固电磁线圈 (可选)
- Y1: 闭锁线圈 (可选)
- V1~V4: 整流桥 (控制电压为直流时无)
- R0: 电阻
- K0: 防跳继电器 (可选)
- JP1~JP10: 跳线
- HQ: shunt closing release
- TQ: shunt opening release
- Y0: truck locking magnet(optional)
- Y1: Locking coil(optional)
- V2~V4: Rectifying bridge (no when DC controlling voltage)
- R0: Resistor
- K0: Anti-pumping relay(optional)
- JP1~JP10: Wire jumper



说明:
图示位置为断路器处于试验位置, 未储能, 分闸状态
Illuminations:
As indicated in the diagram, circuit breaker is open at the testing position and discharged

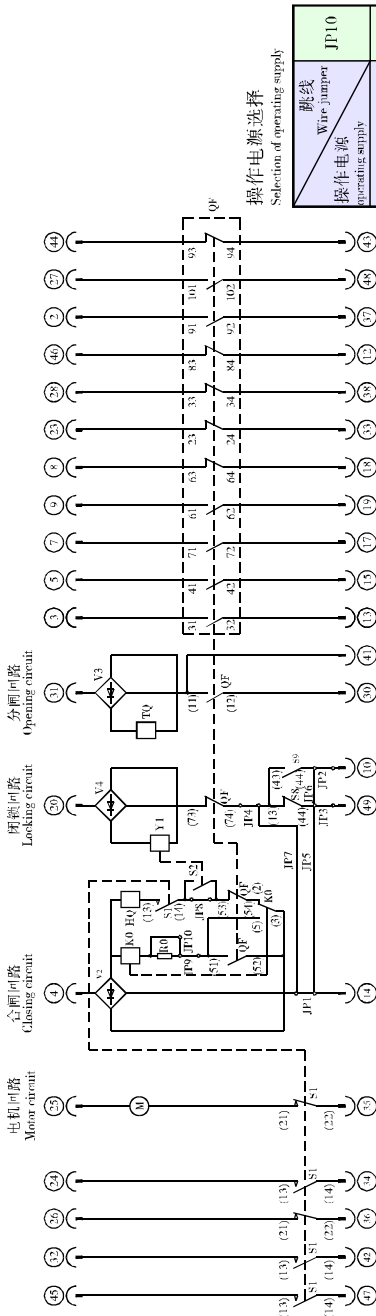


断路器内部电气接线原理图

CIRCUIT BREAKER INTERNAL ELECTRIC WIRING DIAGRAM

● 手车式

非标准方案12/S1: 3开1闭; QF: 7开6闭
Non-standard scheme 12/S1:3NO1NC; QF:7NO6NC



操作电源选择
Selection of operating supply

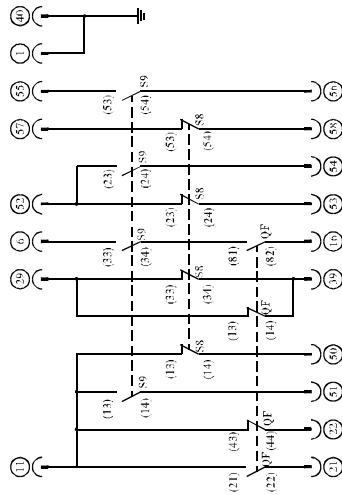
跳线 Wire jumper	JP10	无 Without
操作电源 operating supply	AC/DC, 220V	有 With
	AC/DC, 110V	有 With

可选件接线设置 Wiring setting of selective parts

跳线 Wire jumper	JP9	JP8	JP7	JP6	JP5	JP4	JP3	JP2	JP1
带闭锁 With locking device	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With
无闭锁 Without locking device	无 Without	无 Without	有 With	有 With	有 With	有 With	有 With	有 With	有 With
带防跳 With anti-pumping	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With
无防跳 Without anti-pumping	无 Without	无 Without	有 With	有 With	有 With	有 With	有 With	有 With	有 With
带闭锁 With locking device	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With
无闭锁 Without locking device	无 Without	无 Without	有 With	有 With	有 With	有 With	有 With	有 With	有 With

- S9: 微动开关 (当断路器在工作位置时切换)
- S8: 微动开关 (当断路器在试验位置时切换)
- S2: 微动开关
- S1: 微动开关 (合闸弹簧储能后切换)
- QF: 辅助开关 (分合操作时切换)
- M: 储能电机
- HQ: 合闸脱扣器
- TQ: 分闸脱扣器
- Y1: 闭锁线圈 (可选)
- V2 ~ V4: 整流桥 (控制电压为直流时尤)
- R0: 电阻
- K0: 防跳继电器 (可选)
- JP1 ~ JP10: 跳线

- HQ: shunt-closing release
- TQ: shunt opening release
- Y0: truck locking magnet(optional)
- Y1: Locking coil(optional)
- V2-V4: Rectifying bridge (no when DC controlling voltage)
- R0: Resistance
- K0: Anti-pumping relay(optional)
- JP1-JP10: Wire jumper



说明:
图示位置为断路器处于试验位置, 本储能, 分闸状态

Illustrations:
As indicated in the diagram, circuit breaker is open at the testing position and discharged.

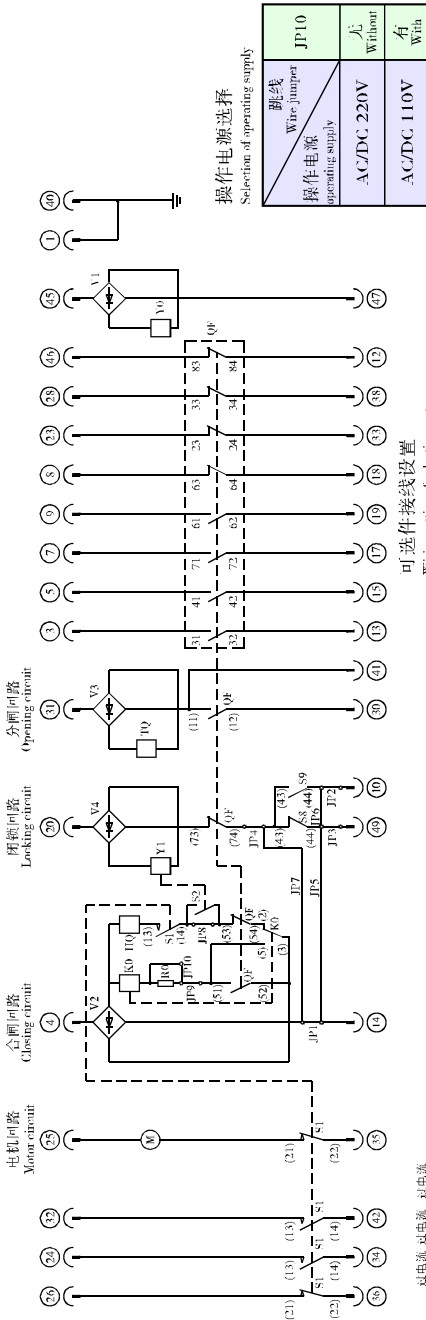


断路器内部电气接线原理图

CIRCUIT BREAKER INTERNAL ELECTRIC WIRING DIAGRAM

● 手车式

非标准方案13/S1: 2开1闭
Non-standard scheme 13/S1:2NO1NC



配置 Equipment	带防跳 With anti-pumping	无防跳 Without anti-pumping	带闭锁 With locking device	无闭锁 Without locking device	带闭锁 With locking device	无闭锁 Without locking device	JP1	JP2	JP3	JP4	JP5	JP6	JP7	JP8	JP9
带防跳 With anti-pumping	有 With	无 Without	有 With	无 Without	有 With	无 Without	有 With	有 With	有 With	有 With	无 Without	无 Without	无 Without	无 Without	有 With
无防跳 Without anti-pumping	无 Without	有 With	无 Without	有 With	无 Without	有 With	无 Without	无 Without	无 Without	无 Without	有 With	有 With	有 With	有 With	无 Without
带闭锁 With locking device	有 With	无 Without	有 With	无 Without	有 With	无 Without	有 With	有 With	有 With	有 With	无 Without	无 Without	无 Without	无 Without	有 With
无闭锁 Without locking device	无 Without	有 With	无 Without	有 With	无 Without	有 With	无 Without	无 Without	无 Without	无 Without	有 With	有 With	有 With	有 With	无 Without

- S9: 微动开关 (当断路器在工作位置时切换)
- S8: 微动开关 (当断路器在试验位置时切换)
- S2: 微动开关
- S1: 微动开关 (合闸弹簧储能后切换)
- QF: 辅助开关 (分合操作时切换)
- M: 储能电机
- Y7 ~ Y9: 间接式过电流脱扣器 (可选)
- S9: micro switch (switch over when breaker is working)
- S8: micro switch (switch over when breaker is testing)
- S2: micro switch
- S1: micro switch (switch over after spring charged)
- QF: Auxiliary switch (operate when switch is on and off)
- M: charging motor
- Y7-Y9: Indirect over-current release (optional)
- HQ: 合闸脱扣器
- TQ: 分闸脱扣器
- Y0: 底座车闭锁电磁铁 (可选)
- Y1: 闭锁线圈 (可选)
- V1 ~ V4: 整流桥 (控制电压为直流时)
- R0: 电阻
- K0: 防跳继电器 (可选)
- JP1 ~ JP10: 跳线
- HQ: shut closing releaser
- TQ: shut opening releaser
- Y0: truck locking magnet (optional)
- Y1: Locking coil (optional)
- V1-V4: Rectifying bridge (in when DC controlling voltage)
- R0: Resistance
- K0: Anti-pumping relay (optional)
- JP1-JP10: Wire jumper

双电源 双电源 双电源
(A相) (B相) (C相)
current current current
release release release
(A phase) (B phase) (C phase)

说明:

图示位置为断路器处于试验位置, 未储能, 分闸状态

Illustrations:

As indicated in the diagram, circuit breaker is open at the testing position and discharged



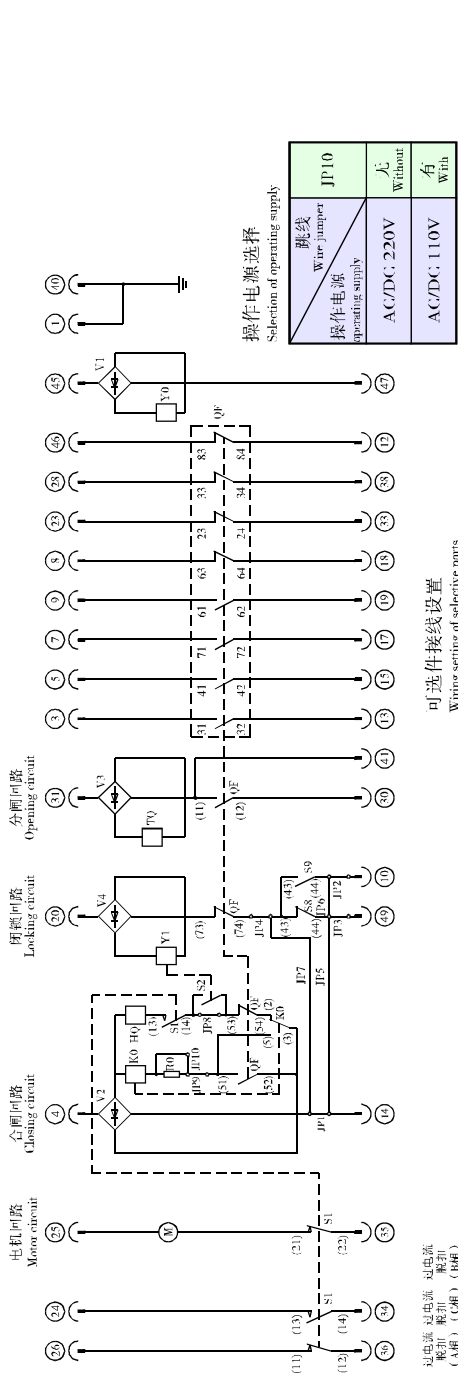
断路器内部电气接线原理图

CIRCUIT BREAKER INTERNAL ELECTRIC WIRING DIAGRAM

● 手车式

非标准方案14/取消29、39并行的QF触点

Non-standard scheme 14/canceling QF contact paralleling with 29 and 39 terminal



操作电源选择 Selection of operating supply	
操作电源 operating supply	JP10 无 Without
AC/DC, 220V	有 With
AC/DC, 110V	有 With

可选件接线设置
Wiring setting of selective parts

配置 Equipment	跳线 Wire jumper		JP1	JP2	JP3	JP4	JP5	JP6	JP7	JP8	JP9
	带防跳 With anti-pumping	无防跳 Without locking device									
带防跳 With anti-pumping	有 With	无 Without	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With
无防跳 Without anti-pumping	有 With	无 Without	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With

- S9: 微动开关 (当断路器在工作位置时切换)
- S8: 微动开关 (当断路器在试验位置时切换)
- S2: 微动开关
- S1: 微动开关 (合闸弹簧储能后切换)
- QF: 辅助开关 (分合操作时切换)
- M: 储能电机
- Y7 ~ Y9: 间接式过电流脱扣器 (可选)
- HQ: 合闸脱扣器
- TQ: 分闸脱扣器
- Y0: 底座车闭锁电磁铁 (可选)
- Y1: 闭锁线圈 (可选)
- V1 ~ V4: 整流桥 (控制电压为直流时尤)
- R0: 电阻
- K0: 防跳继电器 (可选)
- JP1 ~ JP10: 跳线
- HQ: shunt closing release
- TQ: shunt opening release
- Y0: truck locking magnet(optional)
- Y1: Locking coil(optional)
- V1-V4: Rectifying bridge (no when DC controlling voltage)
- R0: Resistance
- K0: Anti-pumping relay(optional)
- JP1-JP10: Wire jumper

过电流
脱扣
(A相) (B相)
过电流
脱扣
(A相)(B相)
过电流
脱扣
(A相)(B相)

说明:
图示位置为断路器处于试验位置, 未储能, 分闸状态
Illuminations:
As indicated in the diagram, circuit breaker is open at the testing position and discharged



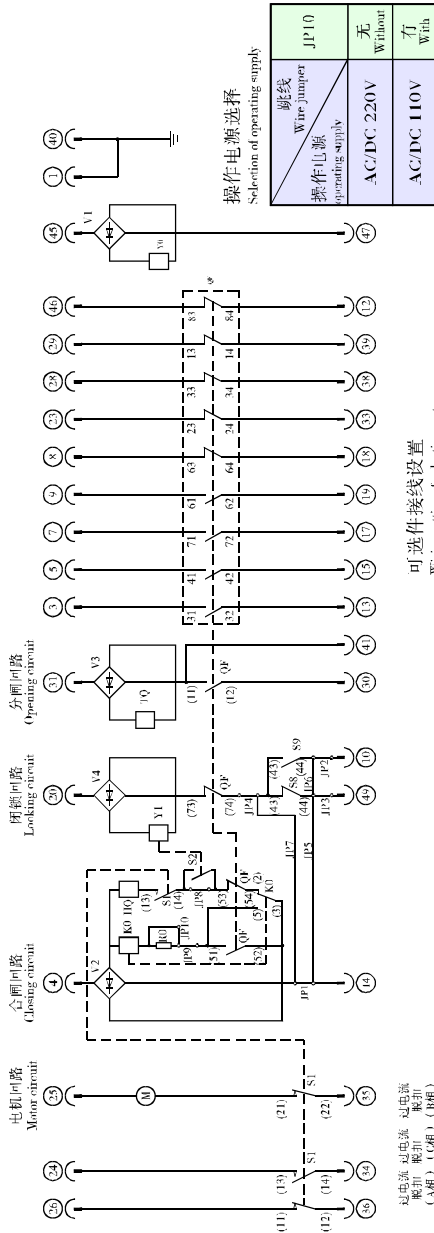
断路器内部电气接线原理图

CIRCUIT BREAKER INTERNAL ELECTRIC WIRING DIAGRAM

● 手车式

非标准方案15/取消29、39并行的S8触点

Non-standard scheme 15/canceling S8 contact paralleling with 29 and 39 terminal



可选件接线设置
Wiring setting of selective parts

配置 Equipmen	带防跳 With anti-pumping	带闭锁 With locking device	带防锁 Without locking device	无防跳 Without anti-pumping	无防锁 Without locking device	JP1	JP2	JP3	JP4	JP5	JP6	JP7	JP8	JP9
带防跳 With anti-pumping	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With
带闭锁 With locking device	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With
带防锁 Without locking device	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With	有 With
无防跳 Without anti-pumping	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without	无 Without

- S9: 微动开关 (当断路器在工作位置时切换)
- S8: 微动开关 (当断路器在试验位置时切换)
- S2: 微动开关
- S1: 微动开关 (合闸弹黄储能后切换)
- QF: 辅助开关 (分合操作时切换)
- M: 储能电机
- Y7 - Y9: 间接式过电流脱扣器 (可选)
- S9: micro switch (switch over when breaker is working)
- S8: micro switch (switch over when breaker is testing)
- S2: micro switch
- S1: micro switch (switch over after spring charged)
- QF: Auxiliary switch (operate when switch is on/off)
- M: changing motor
- Y7 - Y9: Indirect over-current release (optional)
- IQ: 合闸脱扣器
- IQ: 分闸脱扣器
- Y0: 底座车钩锁电磁铁 (可选)
- Y1: 闭锁线圈 (可选)
- Y1 - V4: 整流桥 (控制电压为直流时无)
- R0: 电阻
- K0: 防跳继电器 (可选)
- JP1 - JP10: 跳线
- HQ: shunt closing release
- Y0: truck opening release
- Y0: truck locking magnet (optional)
- Y1: Locking coil (optional)
- V1 - V4: Rectifying bridge (no when DC controlling voltage)
- R0: Resistance
- K0: Anti-pumping relay (optional)
- JP1 - JP10: Wire jumper

过电流 过电压 过电压
脱扣 脱扣 (A相) (B相)
Over-current Over-voltage
release release (A phase) (B phase)

说明:
图示位置为断路器处于试验位置、未储能、分闸状态
Illustrations:
As indicated in the diagram, circuit breaker is open at the testing position and discharged



断路器内部电气接线原理图

CIRCUIT BREAKER INTERNAL ELECTRIC WIRING DIAGRAM

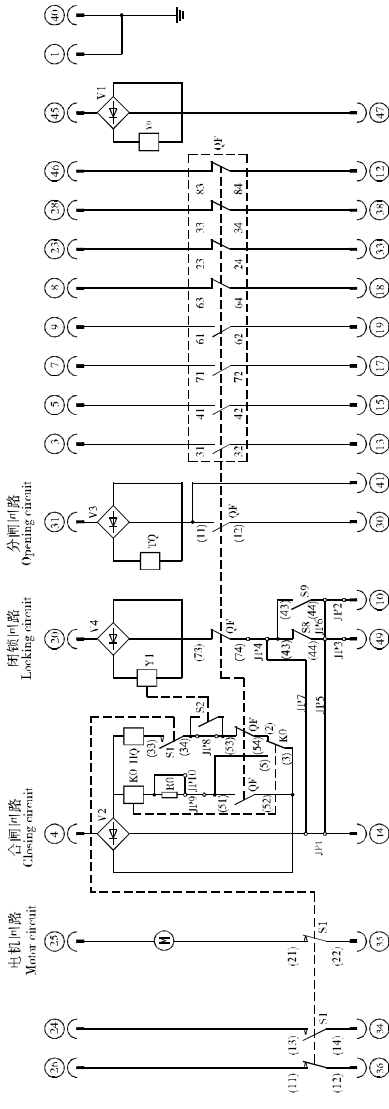
● 手车式

非标准方案16/取消6、16、29、39的QF触点

Non-standard scheme 16/canceling QF contact paralleling with 6, 16, 29, 39 terminal

操作电源选择
Selection of operating supply

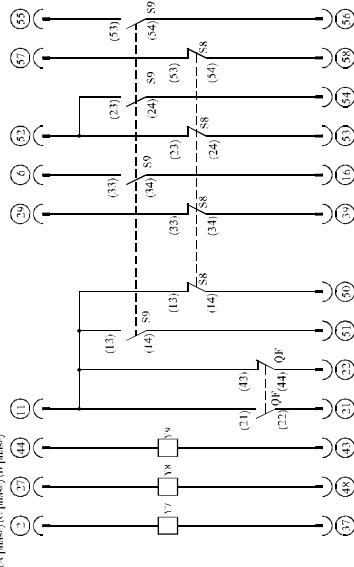
跳线 Wire jumper	JP10
操作电源 operating supply	无 Without
	AC/DC 220V
	AC/DC 110V
	有 With



可选件接线设置
Wiring setting of selective parts

跳线 Wire jumper	JP9	有 With
配置 Equipment	JP8	无 Without
带防跳 With anti-pumping	JP7	有 With
带闭锁 With locking devices	JP6	无 Without
无防跳 Without anti-pumping	JP5	有 With
带闭锁 With locking devices	JP4	无 Without
无闭锁 Without locking devices	JP3	有 With
带防跳 With anti-pumping	JP2	无 Without
无防跳 Without anti-pumping	JP1	有 With

- S9: 微动开关 (当断路器在工作位置时切换)
S8: 微动开关 (当断路器在试验位置时切换)
S2: 微动开关
S1: 微动开关 (合闸弹簧储能后切换)
QF: 辅助开关 (分台操作时切换)
M: 储能电机
Y7~Y9: 间接式过电流脱扣器 (可选)
- HQ: 合闸脱扣器
YQ: 分闸脱扣器
Y0: 底座车档锁闭电路锁 (可选)
Y1: 闭锁线圈 (可选)
V1~V4: 磁流桥 (控制电压为直流时无)
R0: 电阻
K0: 防跳继电器 (可选)
JP1~JP10: 跳线
- HQ: shunt closing release
YQ: shunt opening release
Y0: track locking magnet(optional)
Y1: Locking coil(optional)
V1-V4: Rectifying bridge (no when DC controlling voltage)
R0: Resistor
K0: Anti-pumping relay(optional)
JP1-JP10: Wire jumper



说明:
图示位置为断路器处于试验位置, 未储能, 分闸状态。
Illuminations:
As indicated in the diagram, circuit breaker is Open at the testing position and discharged.



订货须知 ORDERING NOTICE

用户务必确认对本产品技术资料已有详细了解，并根据产品将来使用的场合按“订货规范”表订货。

User should make sure of their detailed acquaintance of the products' technological materials and make ordering by the ordering notice in terms of future applicable situations of the circuit breakers

CV1-24订货规范（固定式） Order Form（fixed type）

（请在 打 ）
(Please mark in)

用户单位 Name		订货台数 Order Amount		订货日期 Date	
型号 Type	CV1-24/T	规格 Specification		规格 Specification	
		<input type="checkbox"/> 630-25	<input type="checkbox"/> 1600-25	<input type="checkbox"/> 2500-31.5	
		<input type="checkbox"/> 630-31.5	<input type="checkbox"/> 1600-31.5	<input type="checkbox"/> 2500-40	
		<input type="checkbox"/> 1250-25	<input type="checkbox"/> 2000-31.5	<input type="checkbox"/> 3150-31.5	
		<input type="checkbox"/> 1250-31.5		<input type="checkbox"/> 3150-40	
标配附件 Normally-deployed Accessories	分闸脱扣器 Shunt opening release	<input type="checkbox"/> AC110V	<input type="checkbox"/> AC220V	<input type="checkbox"/> DC110V	<input type="checkbox"/> DC220V
	合闸脱扣器 Shunt closing release	<input type="checkbox"/> AC110V	<input type="checkbox"/> AC220V	<input type="checkbox"/> DC110V	<input type="checkbox"/> DC220V
	储能电机 charging motor	<input type="checkbox"/> AC110V	<input type="checkbox"/> AC220V	<input type="checkbox"/> DC110V	<input type="checkbox"/> DC220V
选择附件 Optional Accessories	<input type="checkbox"/> 防跳继电器 (K0)* Anti-pumping relay				
	<input type="checkbox"/> 合闸闭锁 (Y1+S2) Closing locking magnet	<input type="checkbox"/> AC110V	<input type="checkbox"/> AC220V	<input type="checkbox"/> DC110V	<input type="checkbox"/> DC220V
	间接过电流 脱扣器 Indirect over-current release	3.5A	<input type="checkbox"/> 二相式(Y7、Y8) two phases	<input type="checkbox"/> 三相式(Y7、Y8、Y9) three phases	
		5A	<input type="checkbox"/> 二相式(Y7、Y8) two phases	<input type="checkbox"/> 三相式(Y7、Y8、Y9) three phases	
备注 Note					

注：选择附件为收费项目（带*的除外）

Note: Optional accessories is charge item (else with *).



订货须知 ORDERING NOTICE

用户务必确认对本产品技术资料已有详细了解，
并应根据产品将来使用的场合按“订货规范”
表订货。

User should make sure of their detailed acquaintance of the
products' technological materials and make ordering by the
ordering notice in terms of future applicable situations of the
circuit breakers

CV1-24订货规范（手车式） Order Form（Withdrawable type）

（请在 打 ）

(Please mark in)

用户单位 User		订货台数 Order Amount		订货日期 Date		
型 号 Type	CV1-24/T	规格 Specification		规格 Specification		
		<input type="checkbox"/> 630-25	<input type="checkbox"/> 1600-25	<input type="checkbox"/> 2500-31.5		
		<input type="checkbox"/> 630-31.5	<input type="checkbox"/> 1600-31.5	<input type="checkbox"/> 2500-40		
		<input type="checkbox"/> 1250-25	<input type="checkbox"/> 2000-31.5	<input type="checkbox"/> 3150-31.5		
		<input type="checkbox"/> 1250-31.5		<input type="checkbox"/> 3150-40		
标 配 附 件 Normally-deployed accessories	分闸脱扣器 Shunt opening release	<input type="checkbox"/> AC110V	<input type="checkbox"/> AC220V	<input type="checkbox"/> DC110V	<input type="checkbox"/> DC220V	
	合闸脱扣器 Shunt closing release	<input type="checkbox"/> AC110V	<input type="checkbox"/> AC220V	<input type="checkbox"/> DC110V	<input type="checkbox"/> DC220V	
	储能电机 Charging motor	<input type="checkbox"/> AC110V	<input type="checkbox"/> AC220V	<input type="checkbox"/> DC110V	<input type="checkbox"/> DC220V	
选 择 附 件 Optional Accessories	<input type="checkbox"/> 合闸闭锁 (Y1+S2) Closing locking	<input type="checkbox"/> AC110V	<input type="checkbox"/> AC220V	<input type="checkbox"/> DC110V	<input type="checkbox"/> DC220V	
	<input type="checkbox"/> 防跳继电器 (K0) * Anti-pumping relay					
	<input type="checkbox"/> 底盘车闭锁 (Y0) Truck locking	<input type="checkbox"/> AC110V	<input type="checkbox"/> AC220V	<input type="checkbox"/> DC110V	<input type="checkbox"/> DC220V	
	间接过电流脱扣器 Indirect over-current release	5 A	<input type="checkbox"/> 二相式 (Y7、Y8) Two phases	<input type="checkbox"/> 三相式 (Y7、Y8、Y9) Three phases		
		3.5 A	<input type="checkbox"/> 二相式 (Y7、Y8) Two phases	<input type="checkbox"/> 三相式 (Y7、Y8、Y9) Three phases		
	信号输出 非标准方案 Signal output non-standard scheme	增加1只微动开关 Adding one microswitch	<input type="checkbox"/> 方案08/S1: 2开2闭 (储能信号) Scheme 08/S1: 2N02NC (charging signal)		<input type="checkbox"/> 方案13/S1: 2开1闭 (储能信号) Scheme 13/S1: 2N01NC (charging signal)	
		增加2只微动开关 Adding two microswitches	<input type="checkbox"/> 方案06/S1: 3开3闭 (储能信号) Scheme 06/S1: 3N03NC (charging signal)		<input type="checkbox"/> 方案10/S1: 3开1闭 (储能信号) Scheme 10/S1: 3N01NC (charging signal)	
		辅助开关10开10闭 Auxiliary switch 10NO10NC	<input type="checkbox"/> 方案07/QF: 7开7闭 (分合信号) Scheme 07/QF: 7N07NC (on/off signal)		<input type="checkbox"/> 方案09/QF: 6开6闭 (分合信号) Scheme 9/QF: 6N06NC (on/off signal)	
		辅助开关10开10闭 Auxiliary switch 10NO10NC	<input type="checkbox"/> 方案11/S1: 2开2闭 (储能信号); QF: 6开6闭 (分合信号) Scheme 11/S1: 2N02NC (charging signal); QF: 6N06NC (on/off signal)			
		增加1只微动开关 Adding one microswitch	<input type="checkbox"/> 方案12/S1: 3开1闭 (储能信号); QF: 7开6闭 (分合信号) Scheme 12/S1: 3N01NC (charging signal); QF: 7N06NC (on/off signal)			
		增加2只微动开关 Adding two microswitches	<input type="checkbox"/> 方案12/S1: 3开1闭 (储能信号); QF: 7开6闭 (分合信号) Scheme 12/S1: 3N01NC (charging signal); QF: 7N06NC (on/off signal)			
	其他* Other	<input type="checkbox"/> 方案14/取消29、39并联的QF触点 Scheme 14/canceling QF contact paralleling 29and39terminal				
		<input type="checkbox"/> 方案15/取消29、39并联的S8触点 Scheme 15/canceling S8 contact paralleling 29and39terminal				
		<input type="checkbox"/> 方案16/取消6、16、29、39的QF触点 Scheme 16/canceling QF contact paralleling 6、16、29、39terminal				
	机械程序锁 Mechanical programme lock	<input type="checkbox"/> 二进一 (底盘车) Two step one(truck)				
手车式与 柜门联锁 withdrawable interlocking with switchgear door	<input type="checkbox"/> 柜门关上后才能操作底盘车 after closing switchgear door,can operate truck					
	<input type="checkbox"/> 柜门关上后才能操作底盘车+断路器仅在试验位置时柜门才能打开 after closing switchgear door,can operate truck and switchgear door may be opened when breaker is testing position					
接地方式 Earthing mode	<input type="checkbox"/> 常规接地方式 (接地排接地) * Nomal earthing mode(earthing bar grounded)					
	<input type="checkbox"/> 特殊接地方式1 (接地触头接地) Special earthing mode1(earthing contact grounded)					
	<input type="checkbox"/> 特殊接地方式2 (接地夹接地) Special earthing mode2(earthing clamp grounded)					
备 注 Note						

注：选择附件为收费项目（带*的除外） Note:Optional accessories is charge item(else with*).



CV2-24订货规范（手车式） Order Form（Withdrawable type）

（请在 打 ）

(Please mark in)

用户单位 User		订货台数 Order Amount		订货日期 Date			
型号规格 Type	规格 Specification		规格 Specification		规格 Specification		
	<input type="checkbox"/> 630-25		<input type="checkbox"/> 1250-25		<input type="checkbox"/> 1600-25		
CV2-24/T		<input type="checkbox"/> 630-31.5		<input type="checkbox"/> 1250-31.5			
标配附件 Normally-deployed accessories	分闸脱扣器 Shunt opening release	<input type="checkbox"/> AC110V	<input type="checkbox"/> AC220V	<input type="checkbox"/> DC110V	<input type="checkbox"/> DC220V		
	合闸脱扣器 Shunt closing release	<input type="checkbox"/> AC110V	<input type="checkbox"/> AC220V	<input type="checkbox"/> DC110V	<input type="checkbox"/> DC220V		
	储能电机 Charging motor	<input type="checkbox"/> AC110V	<input type="checkbox"/> AC220V	<input type="checkbox"/> DC110V	<input type="checkbox"/> DC220V		
选择附件 Optional Accessories	<input type="checkbox"/> 闭锁线圈（Y1+S2） Closing locking		<input type="checkbox"/> AC110V	<input type="checkbox"/> AC220V	<input type="checkbox"/> DC110V <input type="checkbox"/> DC220V		
	<input type="checkbox"/> 防跳继电器（K0）* Anti-pumping relay						
	<input type="checkbox"/> 底盘车闭锁（Y0） Truck locking		<input type="checkbox"/> AC110V	<input type="checkbox"/> AC220V	<input type="checkbox"/> DC110V	<input type="checkbox"/> DC220V	
	间接过流脱扣器 Indirect over-current release	3.5 A	<input type="checkbox"/> 二相式（Y7、Y8） Two phases		<input type="checkbox"/> 三相式（Y7、Y8、Y9） Three phases		
		5 A	<input type="checkbox"/> 二相式（Y7、Y8） Two phases		<input type="checkbox"/> 三相式（Y7、Y8、Y9） Three phases		
	信号输出非标方案 Signal output non-standard scheme	增加1只微动开关 Adding one microswitch		<input type="checkbox"/> 方案08/S1: 2开2闭（储能信号） Scheme 08/S1: 2NO2NC (charging signal)	<input type="checkbox"/> 方案13/S1: 2开1闭（储能信号） Scheme 13/S1: 2NO1NC (charging signal)		
		增加2只微动开关 Adding two microswitches		<input type="checkbox"/> 方案06/S1: 3开3闭（储能信号） Scheme 06/S1: 3NO3NC (charging signal)	<input type="checkbox"/> 方案10/S1: 3开1闭（储能信号） Scheme 10/S1: 3NO1NC (charging signal)		
		辅助开关10开10闭 Auxiliary switch 10NO10NC		<input type="checkbox"/> 方案07/S1: 7开7闭（分合信号） Scheme 07/QF: 7NO7NC (on/off signal)	<input type="checkbox"/> 方案09/S1: 6开6闭（分合信号） Scheme 9/QF: 6NO6NC (on/off signal)		
		辅助开关10开10闭 Auxiliary switch 10NO10NC		<input type="checkbox"/> 方案11/S1: 2开2闭（储能信号）；QF: 7开7闭（分合信号） Scheme 11/S1: 2NO2NC (charging signal) ;QF: 6NO6NC (on/off signal)			
		增加1只微动开关 Adding one microswitch		<input type="checkbox"/> 方案12/S1: 3开1闭（储能信号）；QF: 7开6闭（分合信号） Scheme 12/S1: 3NO1NC (charging signal) ;QF: 7NO6NC (on/off signal)			
		增加2只微动开关 Adding two microswitches		<input type="checkbox"/> 方案14/取消29、39并联的QF接点 Scheme 14/canceling QF contact paralleling 29and39terminal			
	其他* Other		<input type="checkbox"/> 方案15/取消29、39并联的S8接点 Scheme 15/canceling S8 contact paralleling 29and39terminal				
	<input type="checkbox"/> 方案16/取消6、16、29、39的QF接点 Scheme 16/canceling QF contact paralleling 6、16、29、39terminal						
	机械程序锁 Mechanical programme lock	<input type="checkbox"/> 二进一（底盘车） Two step one(truck)					
	手车式与柜门联锁 withdrawable interlocking with switchgear door	<input type="checkbox"/> 柜门关上后才能操作底盘车 after closing switchgear door,can operate truck					
<input type="checkbox"/> 柜门关上后才能操作底盘车+断路器仅在试验位置时柜门才能打开 after closing switchgear door,can operate truck and switchgear door may be opened when breaker is testing position							
接地方式 Earthing mode	<input type="checkbox"/> 常规接地方式（接地排接地）* Normal earthing mode(earthing bar grounded)						
	<input type="checkbox"/> 特殊接地方式1（接地触头接地） Special earthing mode1(earthing contact grounded)						
	<input type="checkbox"/> 特殊接地方式2（接地夹接地） Special earthing mode2(earthing clamp grounded)						
备注 Note							

注：选择附件为收费项目（带*的除外） Note:Optional accessories is charge item(else with*).



常熟开关 持续超越

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2014.07

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