

浙里,光尽其所能
Here, The Light Did What It Could



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浙光电子产品手册
PRODUCT MANUAL

ZHEGUANG ELECTRONIC CO.,LTD.

I Vacuum Interrupter
真空灭弧室

I Embedded Poles
固封极柱

Here The Light Did What It Could
浙里,光尽其所能

浙光电子有限公司 依托15余年行业基础与技术

ZHEGUANG ELECTRONIC CO.,LTD. Relying On More Than 15 Years Of Industry Foundation and Technology

在技术起步的脚步声中 浙光对产品的创新，创造从未停歇。

Amidst the footsteps of technological advancement ZHEGUANG PEOPLE's innovation and creation of products never stop.

浙光电子有限公司(宇光科技有限公司全资控股企业)是一家专注于电真空器件研发和生产的国家高新技术企业,主要产品有真空灭弧室,固封极柱,真空直流开关及新能源用直流用接触器等,产品广泛应用于输配电及光伏、新能源领域。

公司拥有一批原在国内著名电真空企业的高级专家及技术骨干,依托数十年的电真空产业基础的优势,凭借先进的技术工艺,完善的检测设备和严格的ISO9001/ISO14001/OHSAS45001质量/环境/职业健康安全管理体系,以及精益管理的理念,为用户提供优质的产品。

ZHEGUANG ELECTRONIC CO.,LTD. (a wholly-owned holding enterprise of Yuguang Technology Co., Ltd.) is a national high-tech enterprise specializing in the research and production of electric vacuum devices. Its main products include vacuum interrupter, Embedded poles, vacuum DC switches, and DC contacts for new energy. The products are widely used in fields such as power, metallurgy, mining, railway, communication, broadcasting, medical, new energy, and industrial high-frequency heating.

The company has a group of senior experts and technical backbone from well-known domestic electric vacuum enterprises, relying on decades of advantages in the electric vacuum industry foundation, advanced technological processes, complete testing equipment, and strict ISO9001/ISO14001/OHSAS45001 quality/environment/occupational health and safety management system, as well as the concept of continuous improvement in military manufacturing, to provide users with high-quality products.



400,000

公司拥有多项专利技术并通过引进国外成熟的先进工艺,自行研制及与科研院所合作,已开发出1.14KV-40.5KV各种类型真空灭弧室和固封极柱并通过型式试验,以及多个系列、多个品种的真空继电器。

The company has multiple patented technologies and has developed various types of 1.14KV-40.5KV vacuum Interrupter and embedded poles through the introduction of mature advanced foreign processes, self research and cooperation with scientific research institutions. They have passed type tests, as well as multiple series and varieties of vacuum capacitors.

浙光电子将以打造名牌产品为目标,以稳健的战略和严格的管理营造企业,以卓越的服务和优异的质量开拓市场,为顾客提供一流的产品和优质的服务。

真空灭弧室市场销量达40万只以上。

ZHEGUANG ELECTRONIC CO.,LTD. will aim to create branded products, build an enterprise with a stable strategy and strict management, expand the market with excellent service and quality, and provide customers with first-class products and high-quality services.

The market sales of vacuum vacuum Interrupter reached more than 400,000 nous.



OHSAS
18001

1.14KV-40.5KV

开发真空灭弧室和固封极柱通过试验
Developed vacuum interrupter and embedded poles, passed the type test

25%

每年增速
Annual growth rate

400,000⁺

真空灭弧室市场销量
Sales volume of vacuum interrupter



Wisdom Made China Good
Craftsman Yu Guang

CRAFTSMANSHIP AND INTELLIGENCE CONSTANTLY CREATE VALUE FOR CUSTOMERS

匠心智造 不断为客户创造价值

Established in February [2009]

创立温州浙光电子有限公司，选址在乐清经济技术开发区科技孵化园区，营业面积300㎡。

Established WENZHOU ZHEGUANG ELECTRONIC CO.,LTD. located in the Science and Technology Incubation Park of Yueqing Economic and Technological Development Zone, with a business area of 300 m².

迁址公司营业场所至乐清经济技术开发区纬十九路261号，建筑面积12000㎡，增加数倍产能，独立开发真空灭弧室40余种。

The relocated company's business premises are located at No.261,Wei 19 Road,Economic development Zone, Yueqing,Wenzhou City, with a building area of 12000m², increasing production capacity several times, and independently developing more than 40 types of vacuum interrupters.

成立固封极柱车间，掌握真空灌胶与一次固封极柱工艺。

Establish embedded poles workshop and master the Rubber coating and one-time embedded pole process.

成立宇光科技有限公司（控股浙光电子、贵州宇光、昆山山禾）。

ESTABLISHED YUGUANG TECHNOLOGY CO., LTD.(Holding ZHENGJIANG ZHEGUANG ELECTRONIC CO.,LTD., Guizhou Yuguang CO.,LTD.and Kunshan Shanhe CO.,LTD.).

控股有12年交直流输配电制造经验历史的昆山山禾电气有限公司，专注研发直流控制元件。

Controlled Kunshan Shanhe Electric Co., Ltd., which has 12 years of experience in manufacturing AC and DC transmission and distribution, focuses on the research and development of DC control components.

VS1, ZW32, ZW20, 充气柜等产品的真空灭弧室，通过西安高压电器研究院的单管型式试验，并顺利拿到检验报告。

新建万级洁净车间，新增进口分子泵钎焊炉，已投产，产能扩大30%。浙江省科学技术厅、浙江省财政厅、国家税务总局浙江省税务局、授予“宇光高新技术企业”。电镀表面处理车间成立并运作。

The vacuum interrupter for products such as VS1, ZW32, ZW20, and SF6 ring main unit have passed the type test conducted by Xi'an High Voltage Apparatus Research Institute Co., Ltd. and successfully obtained inspection reports.

A new 10000 level clean workshop has been built, and an imported molecular pump brazing furnace has been added. The production capacity has been expanded by 30%. Zhejiang Provincial Department of Science and Technology, Zhejiang Provincial Department of Finance, State Administration of Taxation Zhejiang Provincial Taxation Bureau, awarded as Yuguang "High Tech Enterprise". Establishment and operation of electroplating surface treatment workshop.

机加工车间量产，电镀车间扩建，新增钎焊炉，产能原基础上再提升30%。温州市科学技术局颁发认证宇光真空灭弧室研究开发中心、实验室。

The machining workshop is put into mass production, the electroplating workshop is expanded, a new brazing furnace is added, and the production capacity is increased by another 30% on the original basis. At the same time, Wenzhou Science and Technology Bureau issued the certification "Yuguang Vacuum Interrupter Research and Development Center and Laboratory"

浙江省经济和信息化厅、中国乐清市委、乐清市人民政府、授予宇光“专精特新中小企业”称号、厂房扩大2倍，全方位搭建产能生产基地。全面构建“产业链”完成，模具设计、开发、制造完成，冲压成型车间全面构建完成运作，陶瓷金属化车间全面构建完成运作，CNC精密加工车间全面构建完成高效运作，导入精益生产制造管理体系（TPS）。

The Department of Economy and Information Technology of Zhejiang Province, the Communist Party of China Yueqing Municipal Committee, and the People's Government of Yueqing City have awarded Yuguang the title of "Specialized in special new small and medium-sized enterprises" (SMEs). The factory has been doubled, and a comprehensive production base with an annual production capacity. The comprehensive construction of the "industrial chain" has been completed, developed mold design, and completed the manufacturing. Fully constructed and operated stamping and forming workshops, ceramic metalization workshops, CNC precision machining workshops. Introduce lean manufacturing management system (TPS).

2009 — 2011 — 2014 — 2016 — 2018 — 2020 — 2022 — 2023 — FUTURE

持续创新为全球脱碳尽己所能 是浙光人的终身追求。

CONTINUOUS INNOVATION TO DO OUR BEST FOR GLOBAL DECARBONIZATION
IT IS THE LIFELONG PURSUIT OF THE PEOPLE OF ZHEGUANG.

坚持以人为本的柔性企业文化

Adhere to a People-oriented Flexible
Corporate Culture.



PROFESSIONAL & TECHNICAL TEAM 专业技术团队

2 [名]



全职顶级行业专家
Full time top industry expert

5 [名]



以上拥有中级职称
Having an intermediate professional
title

8 [名]



技术型管理者10年以上经验
More than 10 years of experience as a
technical manager

QUICK CUSTOMIZATION OF PRODUCTS

快速定制产品

从原材料到成品的整个诞生过程，通过我们奠基产业链一体化的构建体系中，快速完成交付的力量就储存在浙光的流程中。

From raw materials to finished products, through the integration of our industrial chain, the power of rapid delivery is stored in Zheguang's process.

计算机
模拟设计

Computer Simulated
Design

CNC
精密加工

CNC Precision
Machining

冲压技术

Stamping Technology

陶瓷
金属化

Ceramic Metallization

电镀
电表处理

Electroplating
Surface Treatment

一次封排

One Time Sealing
And Discharging

超高压老练
直流老练
试验、封装

Ultra High Pressure Aging
DC Aging Testing
and Packaging

理化分析、金相
质量控制

Physical & Chemical Analysis
Metallographic
Examination
Quality Control

打造“一体化产业链” 给客户带来差异化价值

全产业链运营，实现主要零部件与装配制造的全面质量控制，根本上保证了成品的生产品质。

Creating an "Integrated Industrial Chain"
To Bring Differentiated Value To Customers

The entire industry chain operates to achieve comprehensive quality control of main parts and assembly manufacturing. Fundamentally guarantee the production quality of finished products.



PARTNERS 战略合作伙伴

公司自建立以来，十分注重自身素质的提高。近年来公司在市场准入以及资质认证方面都取得了突破性的进展，为公司提供强有力的服务与支持

Since its establishment, the company has attached great importance to improving its own quality. In recent years, the company has made breakthrough progress in market access and qualification certification. Provide strong service and support to the company



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TD-12/630-20C	201N	16 充气柜
TD-12/630-20D	201D	17 充气柜
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02

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TF-12/630-20F	101F	58 FZN21
TF-12/630-20G	101G	59 FZN21
TF-12/630-20H	110A	60 风电负荷管
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03

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04

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05

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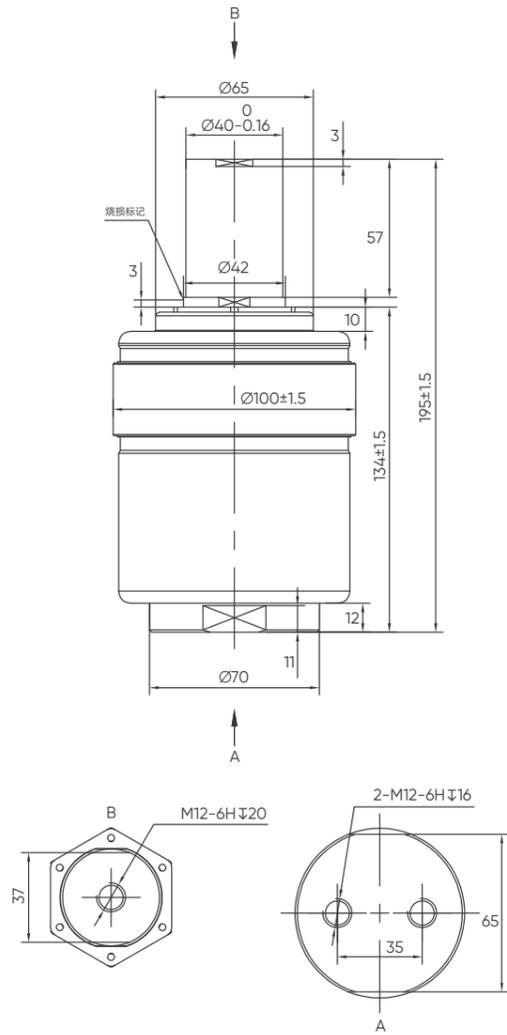
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06

Special Purpose Vacuum Interrupter 114 特殊用途真空灭弧室

DC-6000	114
快速灭弧器	115

TD-1.14/3200-50 | 902D



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	1.14
2	额定电流 Rated Current(Ir)	A	3200
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	10
5	额定短时耐受电流 Rated Short-time Withstand Current	kA	110
6	额定短路接通电流 Rated Short-circuit Making Capability	kA	50
7	额定极限短路分段能力 Rated Limit Short-circuit Breaking Capability	kA	50
8	额定运行短路分段能力 Rated Operating Short-circuit Breaking Capability	kA	50
9	额定短路持续时间 Rated Duration of Short-circuit	S	1
10	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	15
11	机械寿命 Mechanical Endurance	time	10000
12	电寿命 Electrical Endurance	time	10000
13	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	245±50
14	触头反力 Counterforce of Contact at Full Stroke	N	280±50
15	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
16	触头允许磨损总厚度 Contact Limit Erosion	mm	3
17	运动部分质量 Mass of Moving Parts	kg	2.1
18	允许储存期 Shelf Life	year	20
19	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³

配用的真空开关设备的机械特性参数 (建议值)

MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	平均分闸速度 Average Opening Speed	m/s	1.1±0.15
2	平均合闸速度 Average Closing Speed	m/s	0.5±0.15
3	额定触头压力 Rated Contact Pressure	N	5000±200

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
4	额定合闸弹跳时间 Contact Pressure at Contact Touch Point	m/s	≤2
5	分闸触头反弹幅值 Overtravel During Opening	mm	≤2
6	触头合闸和分闸不同期性 Out Of Simultaneity of Closing and Opening	ms	<1
7	额定开距 Clearance Between Ioen Contacts	mm	6±1

注(Note):

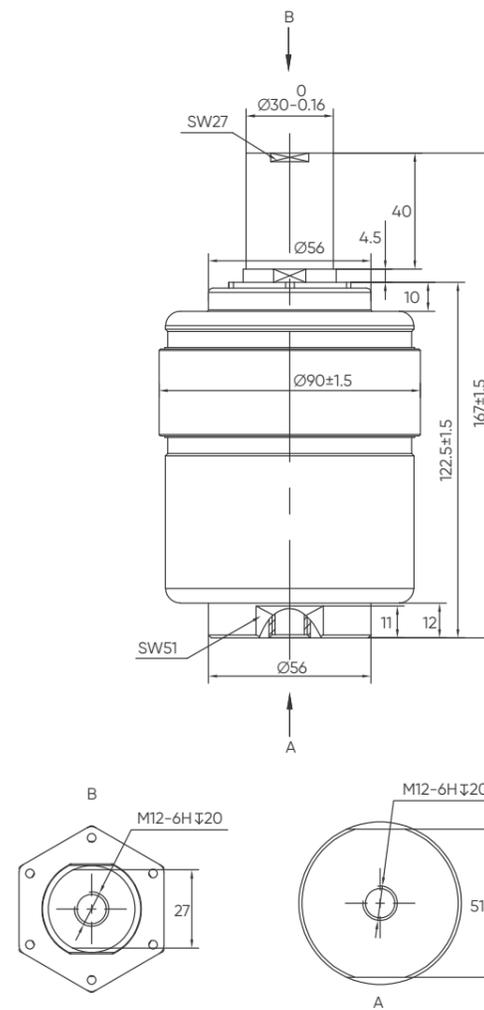
1.产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;

1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;

2.真空灭弧室动导电杆上能承受的扭力矩≤30N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。

2.The movable stem of the Vicould only suffering no more than 30N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-1.14/1600-50 | 902C



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	1.14
2	额定电流 Rated Current(Ir)	A	1600
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	10
5	额定短时耐受电流 Rated Short-time Withstand Current	kA	110
6	额定短路接通电流 Rated Short-circuit Making Capability	kA	50
7	额定极限短路分段能力 Rated Limit Short-circuit Breaking Capability	kA	50
8	额定运行短路分段能力 Rated Operating Short-circuit Breaking Capability	kA	50
9	额定短路持续时间 Rated Duration of Short-circuit	S	1
10	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	15
11	机械寿命 Mechanical Endurance	time	10000
12	电寿命 Electrical Endurance	time	10000
13	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	140±50
14	触头反力 Counterforce of Contact at Full Stroke	N	175±50
15	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
16	触头允许磨损总厚度 Contact Limit Erosion	mm	3
17	运动部分质量 Mass of Moving Parts	kg	1
18	允许储存期 Shelf Life	year	20
19	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³

配用的真空开关设备的机械特性参数 (建议值)

MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	平均分闸速度 Average Opening Speed	m/s	1.1±0.15
2	平均合闸速度 Average Closing Speed	m/s	0.5±0.15
3	额定触头压力 Rated Contact Pressure	N	5000±200

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
4	额定合闸弹跳时间 Contact Pressure at Contact Touch Point	m/s	≤2
5	分闸触头反弹幅值 Overtravel During Opening	mm	≤2
6	触头合闸和分闸不同期性 Out Of Simultaneity of Closing and Opening	ms	<1
7	额定开距 Clearance Between Ioen Contacts	mm	6±1

注(Note):

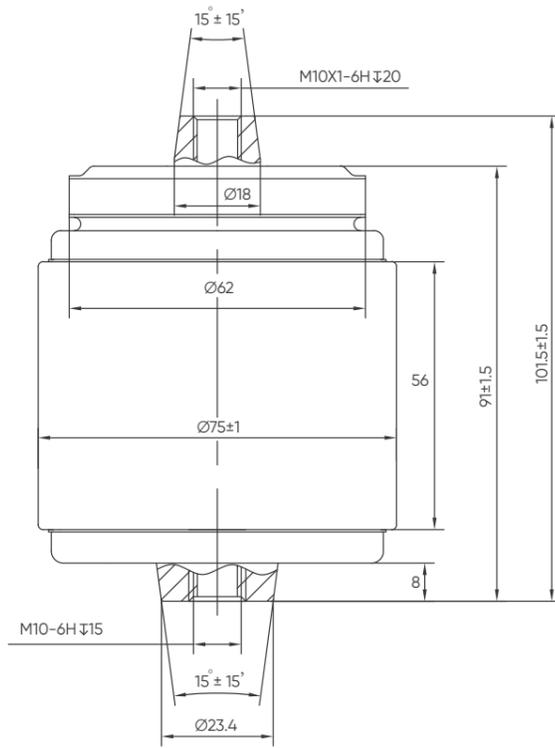
1.产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;

1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;

2.真空灭弧室动导电杆上能承受的扭力矩≤30N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。

2.The movable stem of the Vicould only suffering no more than 30N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-12/630-20 | 310A



注(Note):
1.产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
2.真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

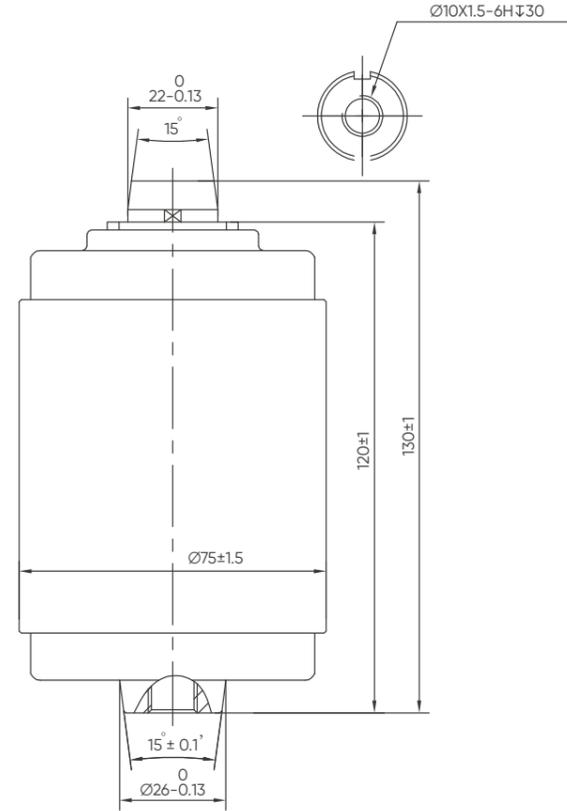
配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	9±1
2	平均分闸速度 Average Opening Speed	m/s	1.1±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.6±0.2

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	630
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	28(in air)42 ★
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	50(in air)75 ★
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	20
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	50
8	额定短路关合电流 Rated Short-circuit Making Current	kA	50
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	20
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	30
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	50000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	90±50
16	触头反力 Counterforce of Contact at Full Stroke	N	120±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/ Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	0.5
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

★ 在变压器油中或等效绝缘介质中
Within Transformer Oil or Equivalent Isolation Medium.
● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

TD-12/630-20 | 203A



注(Note):
1.产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
2.真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

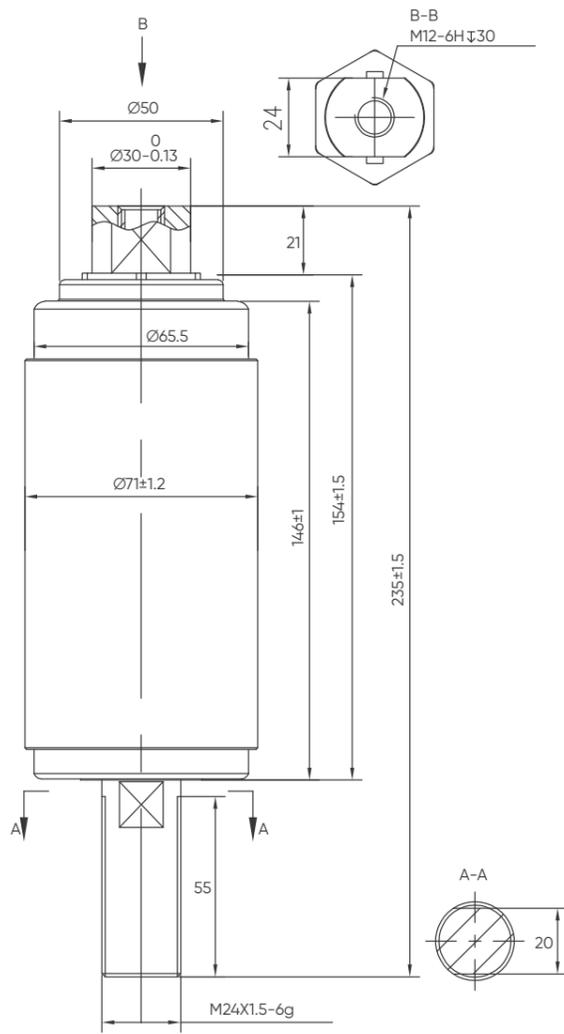
配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	9±1
2	平均分闸速度 Average Opening Speed	m/s	1.1±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.6±0.2

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	630
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	42 ★
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	75 ★
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	20
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	50
8	额定短路关合电流 Rated Short-circuit Making Current	kA	50
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	20
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	15
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	90±50
16	触头反力 Counterforce of Contact at Full Stroke	N	140±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/ Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	0.4
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

★ 在变压器油中或等效绝缘介质中
Within Transformer Oil or Equivalent Isolation Medium.
● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

TD-12/630-20B | 201L



注：动静两扳手槽口的位置无对应关系

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	9±1
2	平均分闸速度 Average Opening Speed	m/s	1.1±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.6±0.2

★ 在变压器油中或等效绝缘介质中
Within Transformer Oil or Equivalent Isolation Medium.

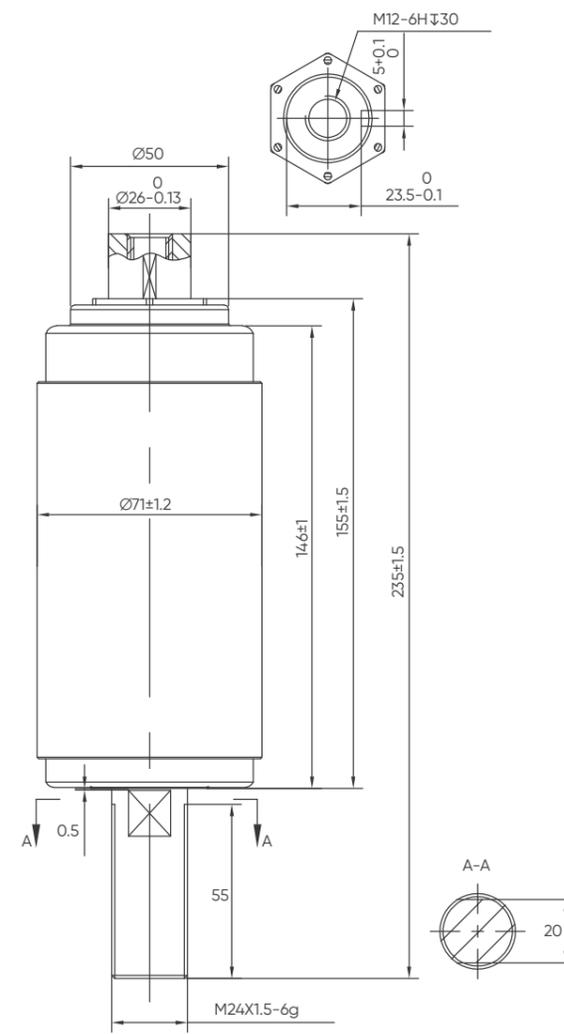
● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
- 真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	630/1250
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	42 ★
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	75 ★
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	25
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	63
8	额定短路关合电流 Rated Short-circuit Making Current	kA	63
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	25
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	25
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	90±50
16	触头反力 Counterforce of Contact at Full Stroke	N	140±50
17	额定触头压力下回路电阻 Circuit Resistance at Min,Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	0.7
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

TD-12/630-20C | 201N



注：动静两扳手槽口的位置无对应关系

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Cledarance Between Ioen Contacts	mm	9±1
2	平均分闸速度 Average Opening Speed	m/s	1.1±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.6±0.2

★ 在变压器油中或等效绝缘介质中
Within Transformer Oil or Equivalent Isolation Medium.

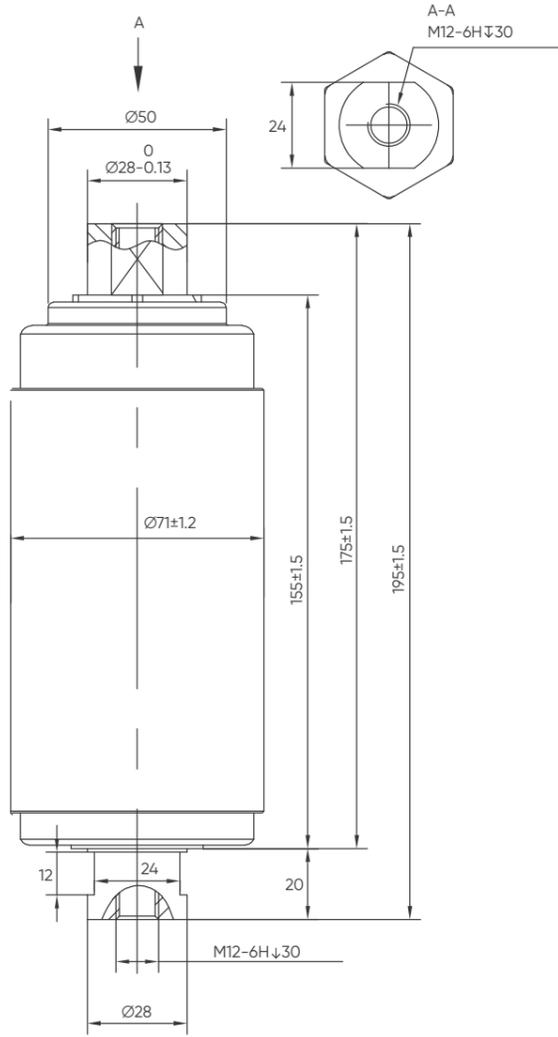
● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
- 真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	630/1250
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	42 ★
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	75 ★
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	25
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	63
8	额定短路关合电流 Rated Short-circuit Making Current	kA	63
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	25
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	15
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	90±50
16	触头反力 Counterforce of Contact at Full Stroke	N	140±50
17	额定触头压力下回路电阻 Circuit Resistance at Min,Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	0.7
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

TD-12/630-20D | 201D



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	630
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	42 ★
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	75 ★
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	20
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	50
8	额定短路关合电流 Rated Short-circuit Making Current	kA	50
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	20
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	15
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	90±50
16	触头反力 Counterforce of Contact at Full Stroke	N	140±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	0.7
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)

MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	9±1
2	平均分闸速度 Average Opening Speed	m/s	1.1±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.6±0.2

★ 在变压器油中或等效绝缘介质中
Within Transformer Oil or Equivalent Isolation Medium.

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

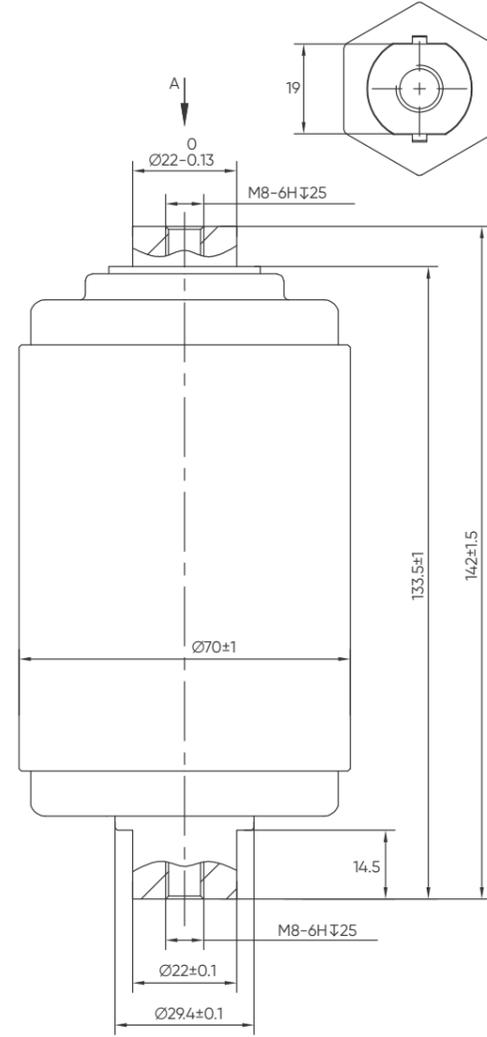
1.产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;

1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;

2.真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。

2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-12/630-20 | 311A



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	630
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	28(in air)42 ★
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	50(in air)85 ★
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	20
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	50
8	额定短路关合电流 Rated Short-circuit Making Current	kA	50
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	20
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	15
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	400 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	90±50
16	触头反力 Counterforce of Contact at Full Stroke	N	140±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	0.5
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)

MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Cledarance Between Ioen Contacts	mm	6±1
2	平均分闸速度 Average Opening Speed	m/s	1.0±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.6±0.2

★ 在变压器油中或等效绝缘介质中
Within Transformer Oil or Equivalent Isolation Medium.

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

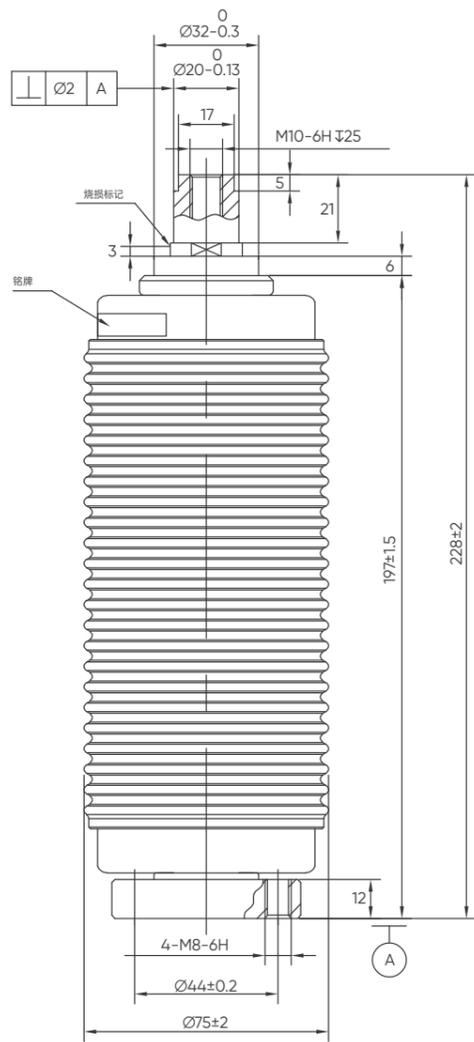
1.产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;

1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;

2.真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。

2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-12/630-20C | 204C



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	630
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	48
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	85
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	20
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	50
8	额定短路关合电流 Rated Short-circuit Making Current	kA	50
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	20
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	20
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	400 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	80±50
16	触头反力 Counterforce of Contact at Full Stroke	N	120±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	0.5
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

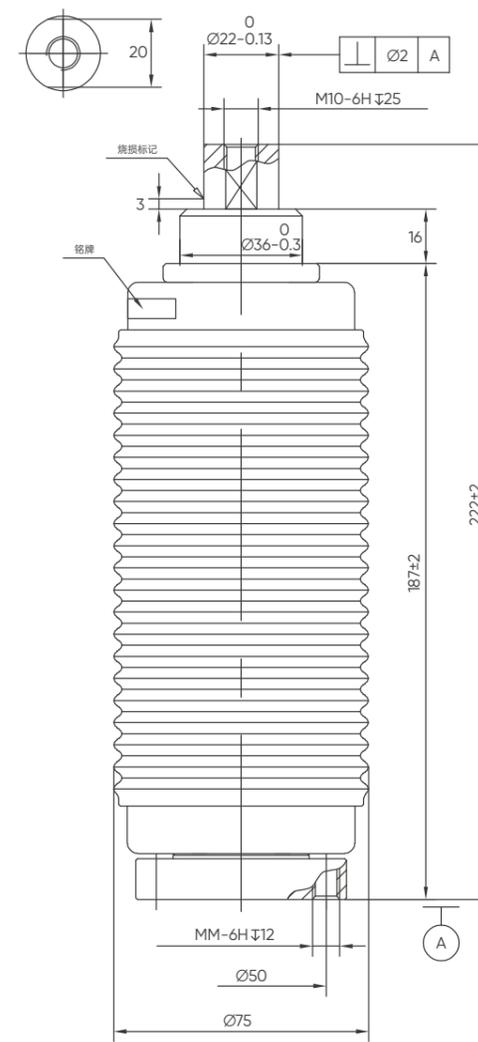
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	9±1
2	平均分闸速度 Average Opening Speed	m/s	1.1±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.6±0.2

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
- 真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the V could only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-12/630-25 | 202E



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	630
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	42
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	75
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	25
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	63
8	额定短路关合电流 Rated Short-circuit Making Current	kA	63
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	25
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	20
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	400 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	90±50
16	触头反力 Counterforce of Contact at Full Stroke	N	140±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	0.5
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

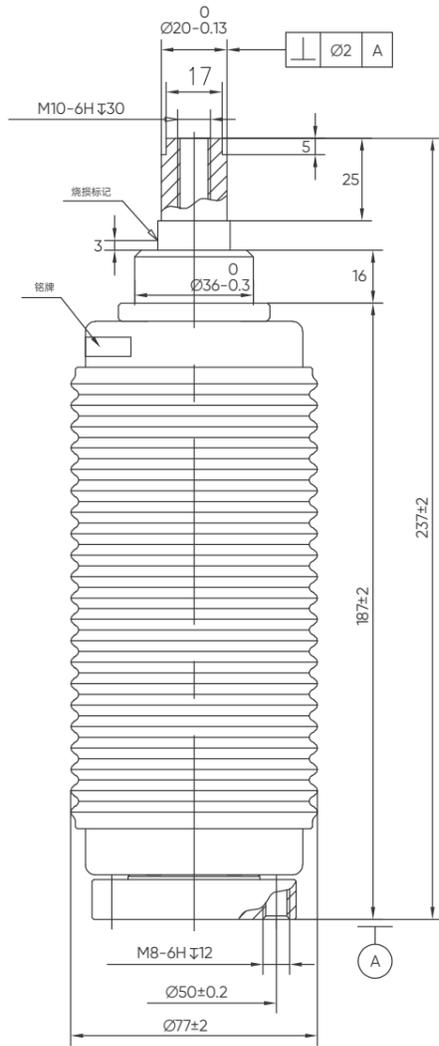
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	9±1
2	平均分闸速度 Average Opening Speed	m/s	1.0±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.6±0.2

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
- 真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the V could only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-12/630-25D | 202D



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	630
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	48
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	85
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	25
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	63
8	额定短路关合电流 Rated Short-circuit Making Current	kA	63
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	25
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	20
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	400 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	90±50
16	触头反力 Counterforce of Contact at Full Stroke	N	140±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	0.5
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)

MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	9±1
2	平均分闸速度 Average Opening Speed	m/s	1.0±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.6±0.2

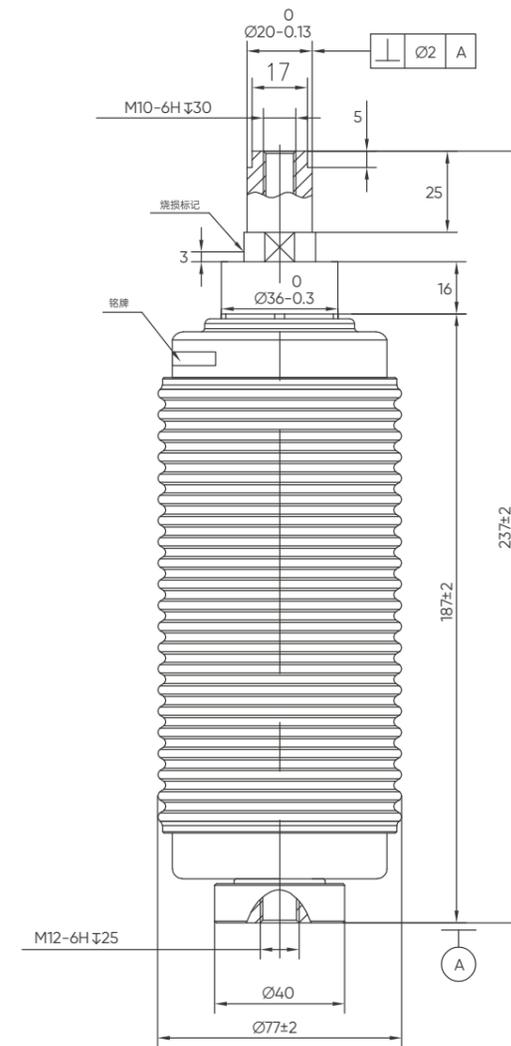
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
4	额定触头压力 Rated Contact Pressure	N	2000±200
5	额定合闸弹跳时间 Contact Pressure at contact touch point	ms	≤3
6	分闸触头反弹幅值 Overtravel during Opening	mm	≤2
7	触头合闸和分闸不同期性 Out of Simultaneity of Closing and Opening	ms	≤3

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
- 真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the V could only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-12/630-25E | 202F



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	630
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	48
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	85
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	25
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	63
8	额定短路关合电流 Rated Short-circuit Making Current	kA	63
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	2
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	20
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	400 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	90±50
16	触头反力 Counterforce of Contact at Full Stroke	N	140±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	0.5
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)

MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	9±1
2	平均分闸速度 Average Opening Speed	m/s	1.0±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.6±0.2

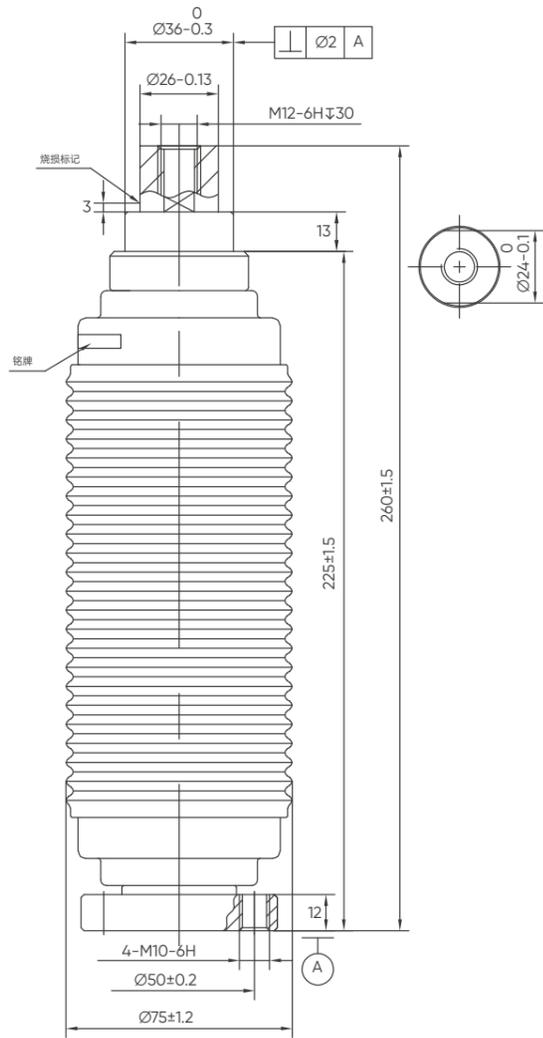
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
4	额定触头压力 Rated Contact Pressure	N	2000±200
5	额定合闸弹跳时间 Contact Pressure at contact touch point	ms	≤3
6	分闸触头反弹幅值 Overtravel during Opening	mm	≤2
7	触头合闸和分闸不同期性 Out of Simultaneity of Closing and Opening	ms	≤3

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
- 真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the V could only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-12/630-25E | 208E
TD-12/1250-25E | 208E



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	630/1250
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	48
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	85
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	25
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	63
8	额定短路关合电流 Rated Short-circuit Making Current	kA	63
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	25
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	20
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	90±50
16	触头反力 Counterforce of Contact at Full Stroke	N	140±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	0.7
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

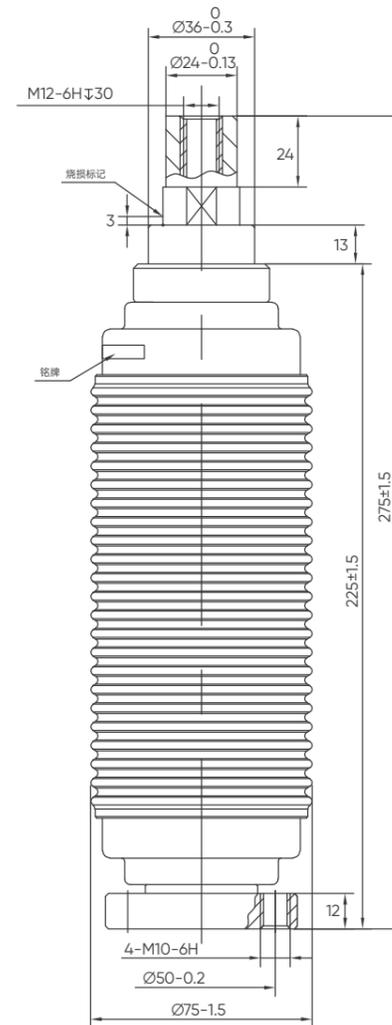
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	9±1
2	平均分闸速度 Average Opening Speed	m/s	1.0±0.2
3	平均分闸速度 Average Closing Speed	m/s	0.6±0.2

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
- 真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-12/630-25F | 208F
TD-12/1250-25F | 208F



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	630/1250
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	48
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	85
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	25
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	63
8	额定短路关合电流 Rated Short-circuit Making Current	kA	63
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	25
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	20
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	90±50
16	触头反力 Counterforce of Contact at Full Stroke	N	140±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	0.7
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

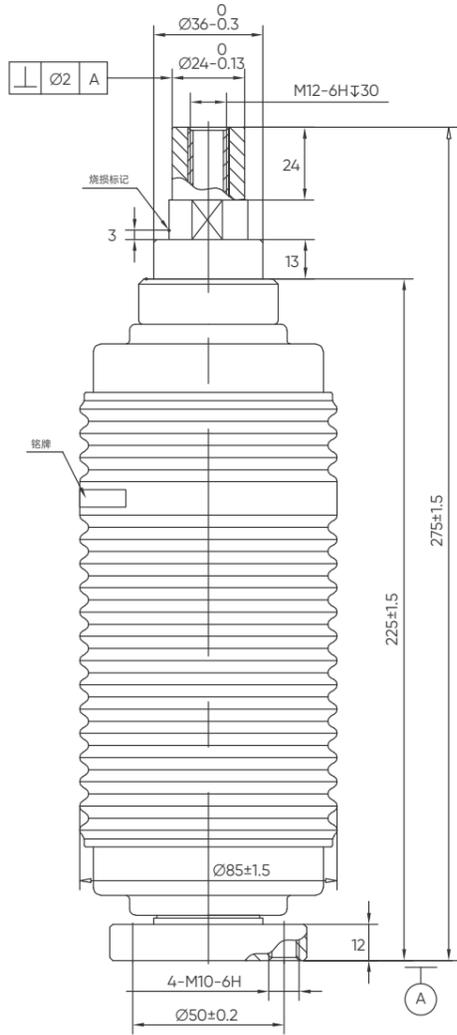
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	9±1
2	平均分闸速度 Average Opening Speed	m/s	1.0±0.2
3	平均分闸速度 Average Closing Speed	m/s	0.6±0.2

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
- 真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-12/630-25C | 208C
TD-12/1250-25C | 208C



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	630/1250
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	48
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	85
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	25
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	63
8	额定短路关合电流 Rated Short-circuit Making Current	kA	63
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	25
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	25
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	110±50
16	触头反力 Counterforce of Contact at Full Stroke	N	180±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	0.7
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

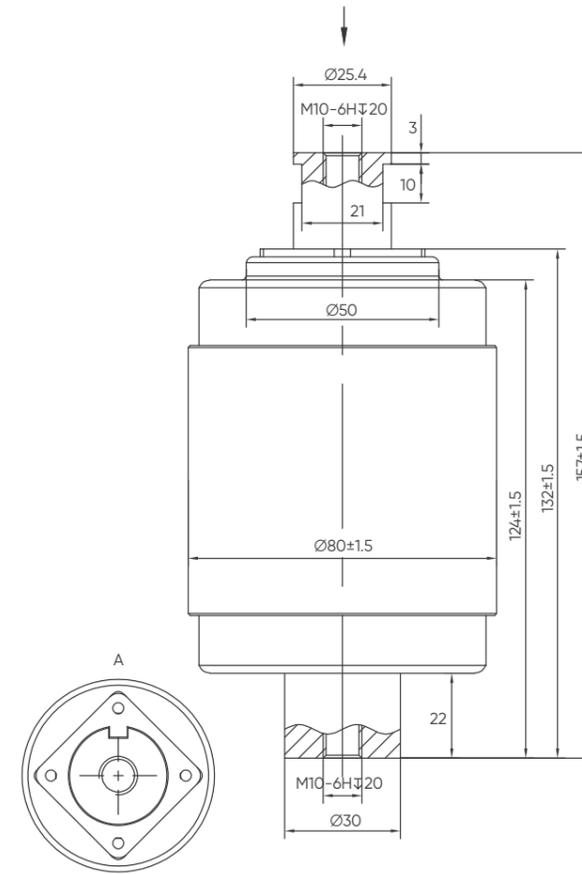
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	9±1
2	平均分闸速度 Average Opening Speed	m/s	1.0±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.6±0.2

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
- 真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-12/1000-25 | 307A



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	1000
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	48 ★
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	85 ★
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	25
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	63
8	额定短路关合电流 Rated Short-circuit Making Current	kA	63
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	25
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	15
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	110±50
16	触头反力 Counterforce of Contact at Full Stroke	N	180±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	0.5
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	9±1
2	平均分闸速度 Average Opening Speed	m/s	1.0±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.6±0.2

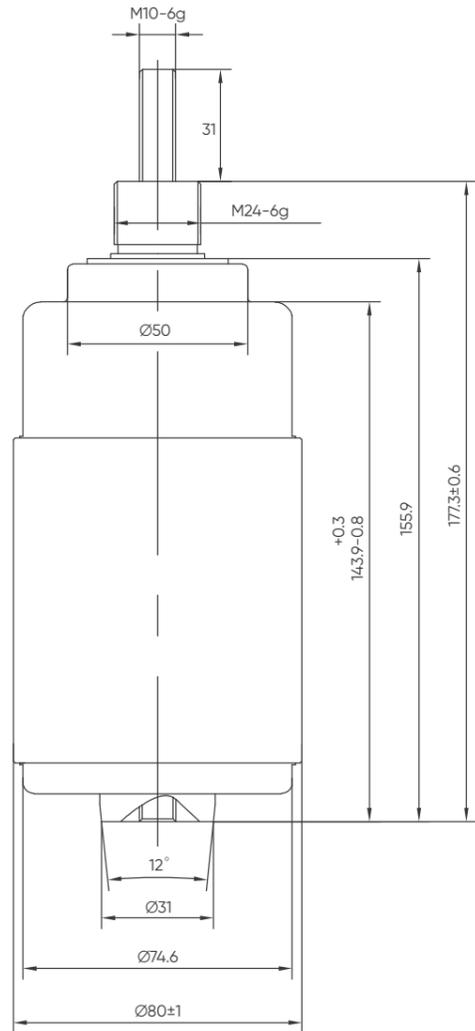
★ 在变压器油中等等效绝缘介质中
Within Transformer Oil or Equivalent Isolation Medium.

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
- 真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-12/1250-25 | 321B



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	1250
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	48 ★
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	85 ★
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	25
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	63
8	额定短路关合电流 Rated Short-circuit Making Current	kA	63
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	25
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	20
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	90±50
16	触头反力 Counterforce of Contact at Full Stroke	N	120±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	0.7
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

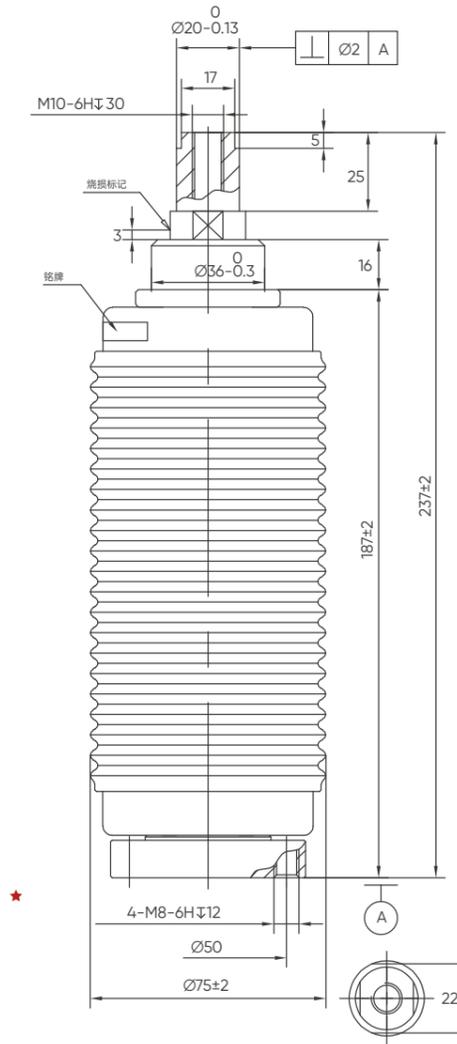
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	9±1
2	平均分闸速度 Average Opening Speed	m/s	1.0±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.6±0.2

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
4	额定触头压力 Rated Contact Pressure	N	2500±200
5	额定合闸弹跳时间 Contact Pressure at contact touch point	ms	≤2
6	分闸触头反弹幅值 Overtravel during Opening	mm	≤2
7	触头合闸和分闸不同期性 Out of Simultaneity of Closing and Opening	ms	≤1

★ 在变压器油中或等效绝缘介质中
Within Transformer Oil or Equivalent Isolation Medium.
● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):
1.产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
2.真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-12/1250-25A | 202A



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	1250
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	48
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	85
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	25
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	63
8	额定短路关合电流 Rated Short-circuit Making Current	kA	63
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	25
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	15
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	110±50
16	触头反力 Counterforce of Contact at Full Stroke	N	180±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	0.7
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

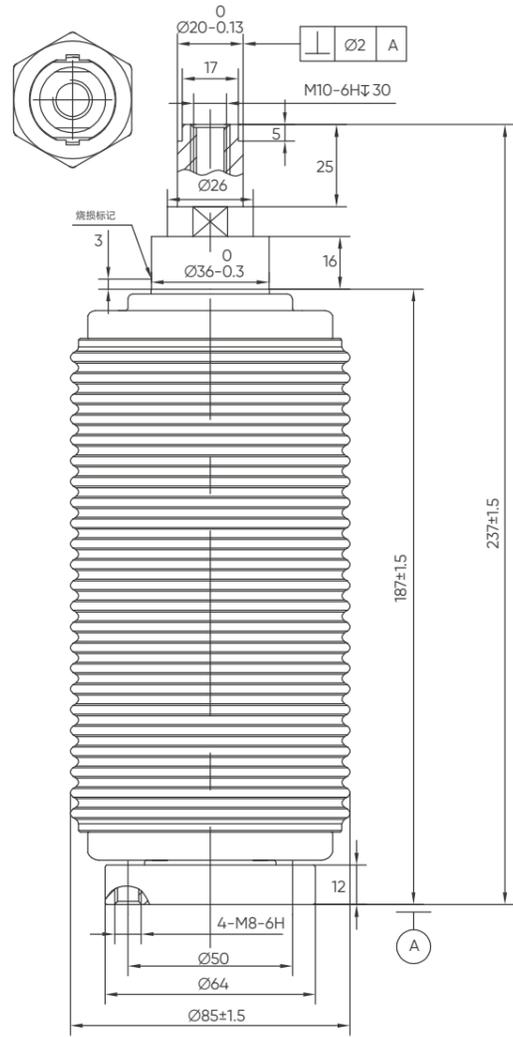
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Cledarance Between Ioen Contacts	mm	9±1
2	平均分闸速度 Average Opening Speed	m/s	1.0±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.6±0.2

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
4	额定触头压力 Rated Contact Pressure	N	2500±200
5	额定合闸弹跳时间 Contact Pressure at contact touch point	ms	≤2
6	分闸触头反弹幅值 Overtravel during Opening	mm	≤2
7	触头合闸和分闸不同期性 Out of Simultaneity of Closing and Opening	ms	≤1

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):
1.产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
2.真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-12/1250-25 | 308



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	1250
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	48
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	85
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	25
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	63
8	额定短路关合电流 Rated Short-circuit Making Current	kA	63
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	25
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	25
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	400/630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	90±50
16	触头反力 Counterforce of Contact at Full Stroke	N	140±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	$\mu\Omega$	≤ 25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	0.4
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	$< 1.33 \times 10^{-3}$
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)

MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	平均分闸速度 Average Opening Speed	m/s	1.0±0.2
2	平均合闸速度 Average Closing Speed	m/s	0.6±0.2
3	额定触头压力 Rated Contact Pressure	N	2500±200

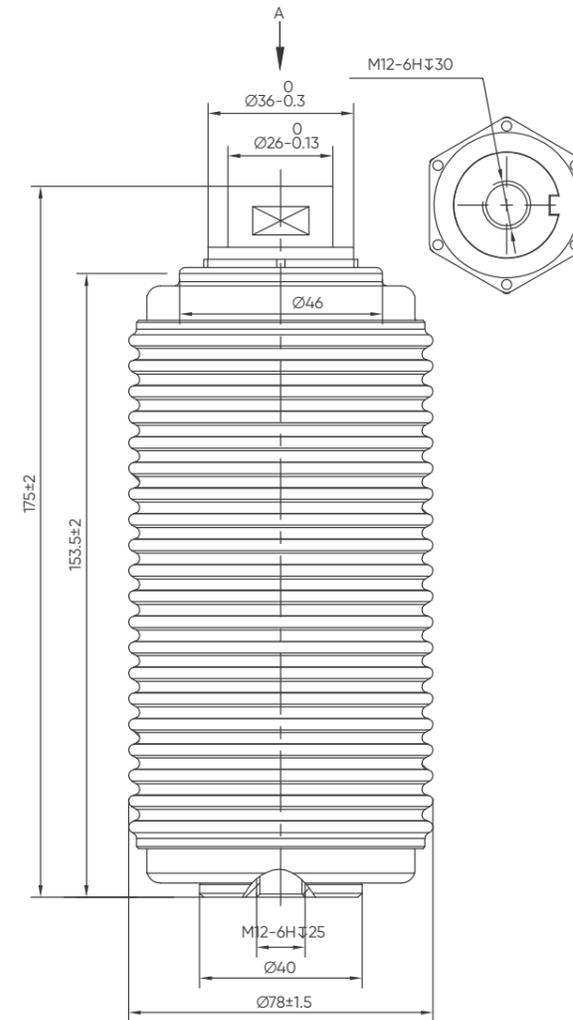
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
4	额定合闸弹跳时间 Rated Contact Pressure	m/s	≤ 2
5	分闸触头反弹幅值 Contact Pressure at contact touch point	mm	≤ 2
6	触头合闸和分闸不同期性 Overtravel during Opening	ms	< 1
7	额定开距 Out of Simultaneity of Closing and Opening	mm	9±1

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
- 真空灭弧室动导电杆上能承受的扭力矩 $\leq 45\text{N.m}$, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the V could only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-12/1250-25 | 206B



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	1250
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	48
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	85
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	25
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	63
8	额定短路关合电流 Rated Short-circuit Making Current	kA	63
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	25
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	25
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	110±50
16	触头反力 Counterforce of Contact at Full Stroke	N	180±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	$\mu\Omega$	≤ 25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	0.5
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	$< 1.33 \times 10^{-3}$
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)

MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	9±1
2	平均分闸速度 Average Opening Speed	m/s	1.0±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.6±0.2

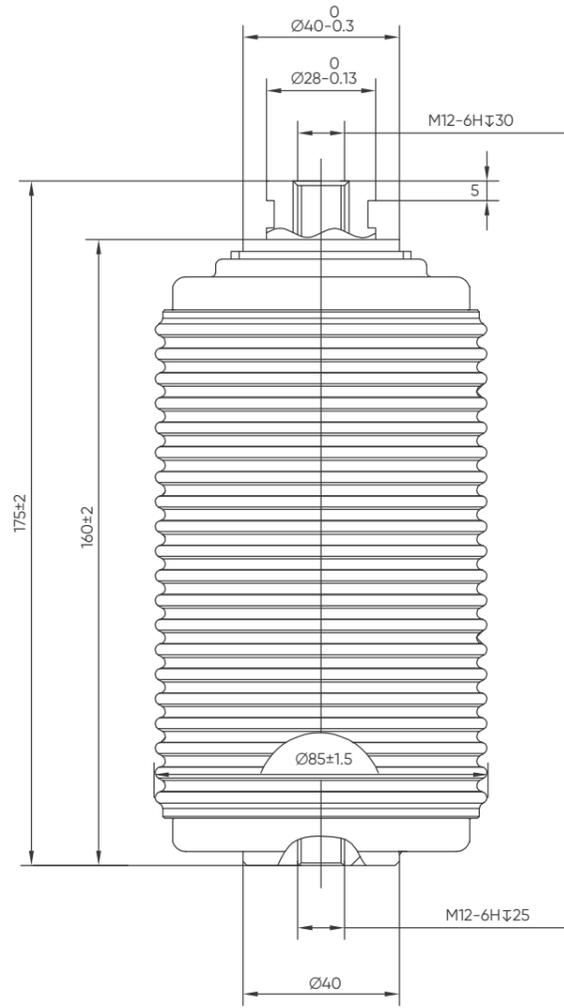
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
4	额定触头压力 Rated Contact Pressure	N	2500±200
5	额定合闸弹跳时间 Contact Pressure at contact touch point	ms	≤ 3
6	分闸触头反弹幅值 Overtravel during Opening	mm	≤ 2
7	触头合闸和分闸不同期性 Out of Simultaneity of Closing and Opening	ms	≤ 1

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
- 真空灭弧室动导电杆上能承受的扭力矩 $\leq 45\text{N.m}$, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the V could only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-12/1250-31.5C | 204C



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	1250
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	48
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	85
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	31.5
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	80
8	额定短路关合电流 Rated Short-circuit Making Current	kA	80
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	31.5
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	15
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	120±50
16	触头反力 Counterforce of Contact at Full Stroke	N	180±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	0.7
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)

MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	9±1
2	平均分闸速度 Average Opening Speed	m/s	1.0±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.6±0.2

● 为需要时提供额定参数

Rated Characteristics To Be Given On Request.

注(Note):

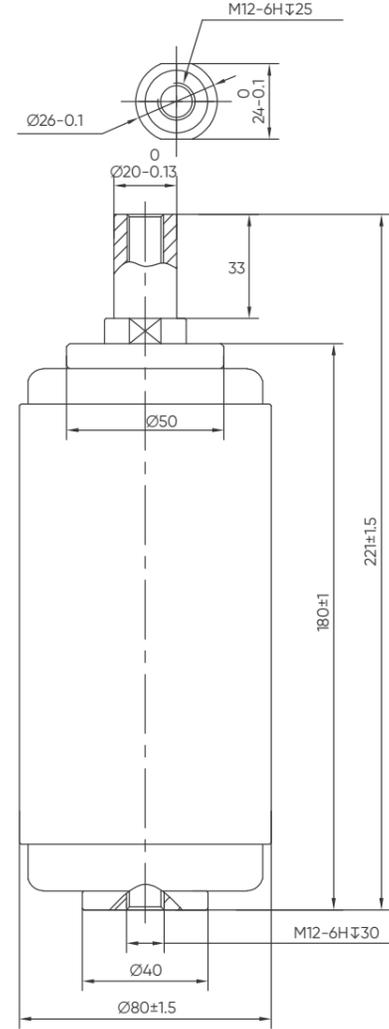
1.产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;

1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;

2.真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。

2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-12/1250-26.3C | 318C



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	1250
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	48 ★
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	85 ★
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	31.5
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	80
8	额定短路关合电流 Rated Short-circuit Making Current	kA	80
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	31.5
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	30
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	120±50
16	触头反力 Counterforce of Contact at Full Stroke	N	180±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	0.7
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)

MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	平均分闸速度 Average Opening Speed	m/s	1.0±0.2
2	平均合闸速度 Average Closing Speed	m/s	0.6±0.2
3	额定触头压力 Rated Contact Pressure	N	3000±200

★ 在变压器油中等效绝缘介质中

Within Transformer Oil or Equivalent Isolation Medium.

● 为需要时提供额定参数

Rated Characteristics To Be Given On Request.

注(Note):

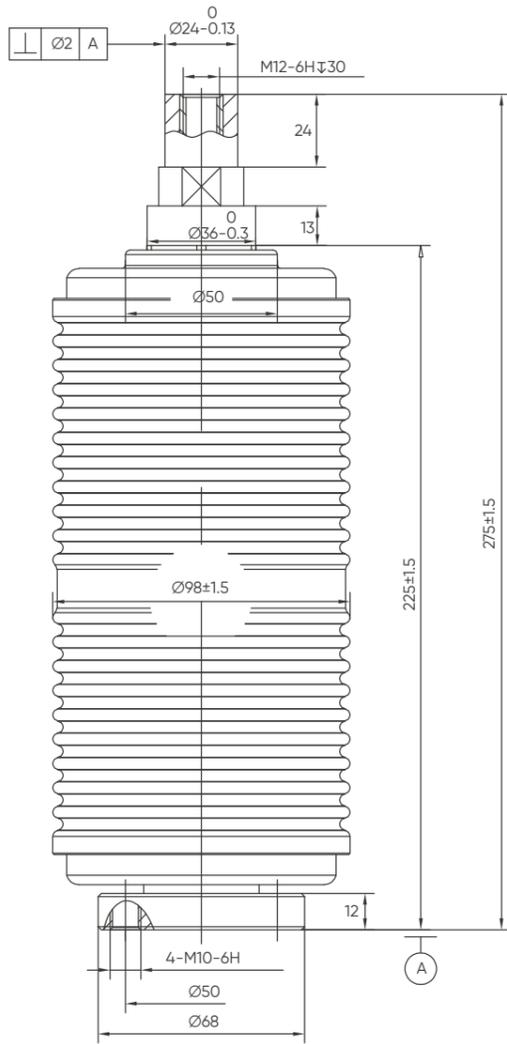
1.产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;

1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;

2.真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。

2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-12/1250-40A | 302E
TD-12/1600-40A | 302E



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	1250/1600
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	48
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	85
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	40
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	100
8	额定短路关合电流 Rated Short-circuit Making Current	kA	100
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	40
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	25
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	120±50
16	触头反力 Counterforce of Contact at Full Stroke	N	180±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	1.5
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

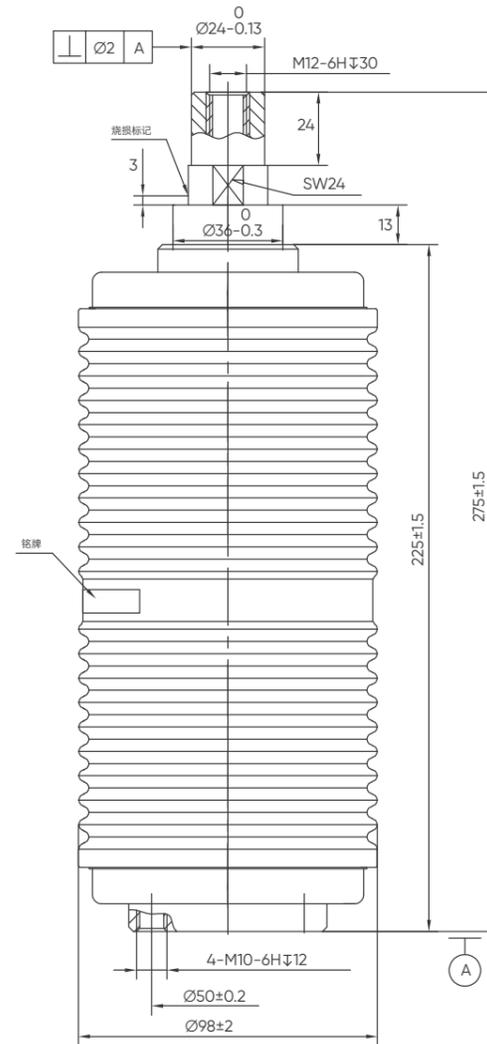
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	9±1
2	平均分闸速度 Average Opening Speed	m/s	1.0±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.6±0.2

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
- 真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-12/1250-31.5C | 302C



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	1250
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	48
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	85
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	31.5
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	80
8	额定短路关合电流 Rated Short-circuit Making Current	kA	80
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	31.5
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	20
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	210±50
16	触头反力 Counterforce of Contact at Full Stroke	N	280±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	1.5
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

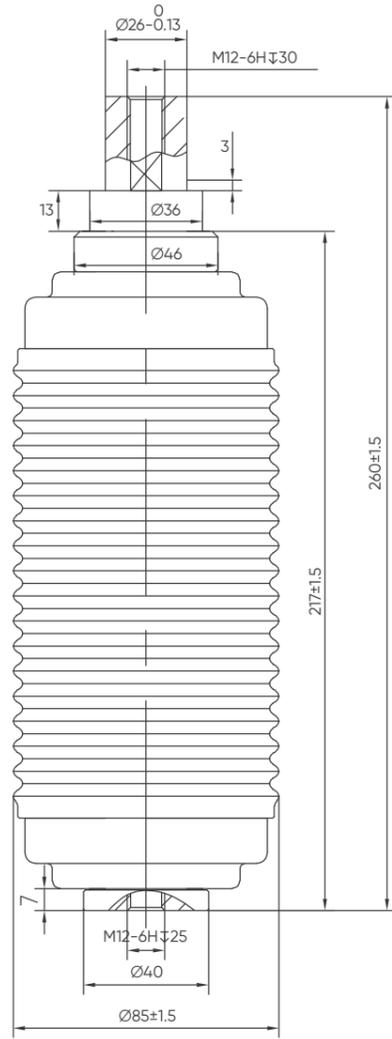
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	10±1
2	平均分闸速度 Average Opening Speed	m/s	1.0±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.6±0.2

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
- 真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-12/1250-31.5 | 208N



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	1250
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	48
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	85
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	31.5
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	80
8	额定短路关合电流 Rated Short-circuit Making Current	kA	80
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	31.5
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	15
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	120±50
16	触头反力 Counterforce of Contact at Full Stroke	N	180±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	0.7
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

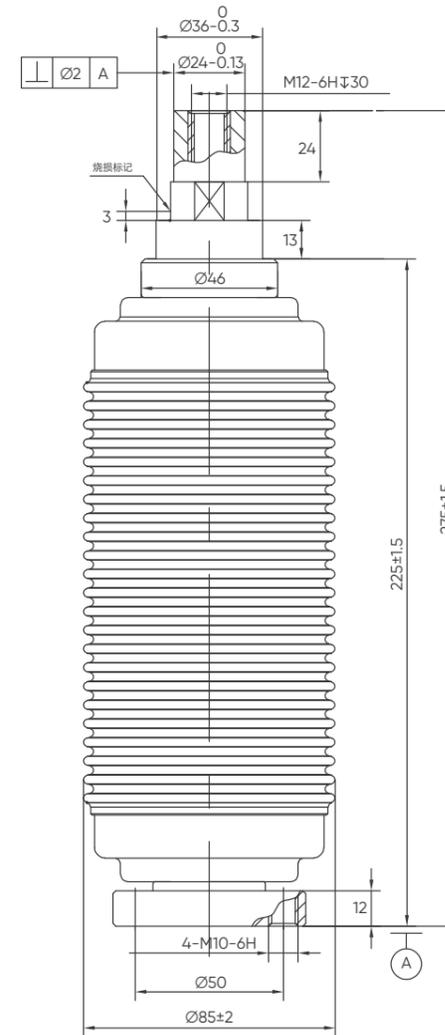
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	平均分闸速度 Average Opening Speed	m/s	1.0±0.2
2	平均合闸速度 Average Closing Speed	m/s	0.6±0.2
3	额定触头压力 Rated Contact Pressure	N	3000±200

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
4	额定合闸弹跳时间 Rated Contact Pressure	m/s	≤2
5	分闸触头反弹幅值 Contact Pressure at contact touch point	mm	≤3
6	触头合闸和分闸不同期性 Overtravel during Opening	ms	<2
7	额定开距 Out of Simultaneity of Closing and Opening	mm	9±1

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):
1.产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
2.真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the V could only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-12/1250-31.5A | 208G



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	1250
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	48
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	85
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	31.5
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	80
8	额定短路关合电流 Rated Short-circuit Making Current	kA	80
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	31.5
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	15
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	120±50
16	触头反力 Counterforce of Contact at Full Stroke	N	180±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	0.7
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

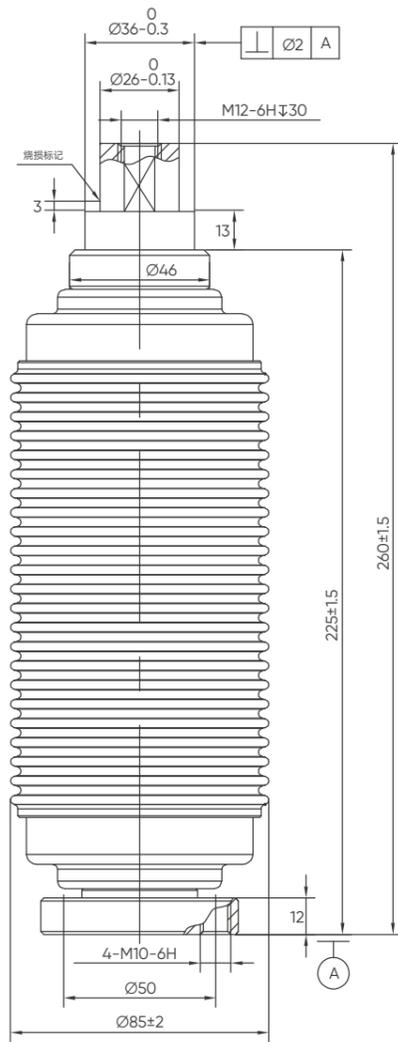
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	9±1
2	平均分闸速度 Average Opening Speed	m/s	1.0±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.6±0.2

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
4	额定触头压力 Rated Contact Pressure	N	3100±200
5	额定合闸弹跳时间 Contact Pressure at contact touch point	ms	≤2
6	分闸触头反弹幅值 Overtravel during Opening	mm	≤2
7	触头合闸和分闸不同期性 Out of Simultaneity of Closing and Opening	ms	≤1

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):
1.产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
2.真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the V could only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-12/1250-31.5D | 208D



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	1250
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	48
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	85
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	31.5
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	80
8	额定短路关合电流 Rated Short-circuit Making Current	kA	80
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	31.5
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	15
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	120±50
16	触头反力 Counterforce of Contact at Full Stroke	N	180±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	0.7
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	平均分闸速度 Average Opening Speed	m/s	1.0±0.2
2	平均合闸速度 Average Closing Speed	m/s	0.6±0.2
3	额定触头压力 Rated Contact Pressure	N	3000±200

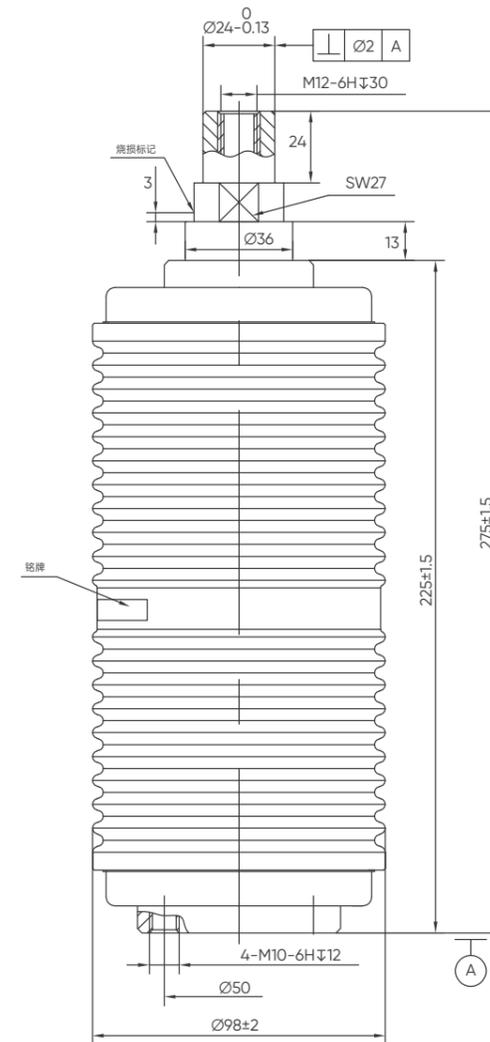
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
4	额定合闸弹跳时间 Rated Contact Pressure	m/s	≤2
5	分闸触头反弹幅值 Contact Pressure at contact touch point	mm	≤3
6	触头合闸和分闸不同期性 Overtravel during Opening	ms	<2
7	额定开距 Out of Simultaneity of Closing and Opening	mm	9±1

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
- 真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the V could only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-12/1250-31.5D | 302D
TD-12/1600-31.5D | 302D



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	1250/1600
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	48
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	85
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	31.5
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	80
8	额定短路关合电流 Rated Short-circuit Making Current	kA	80
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	31.5
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	30
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	210±50
16	触头反力 Counterforce of Contact at Full Stroke	N	300±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	1.0
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	9±1
2	平均分闸速度 Average Opening Speed	m/s	1.0±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.6±0.2

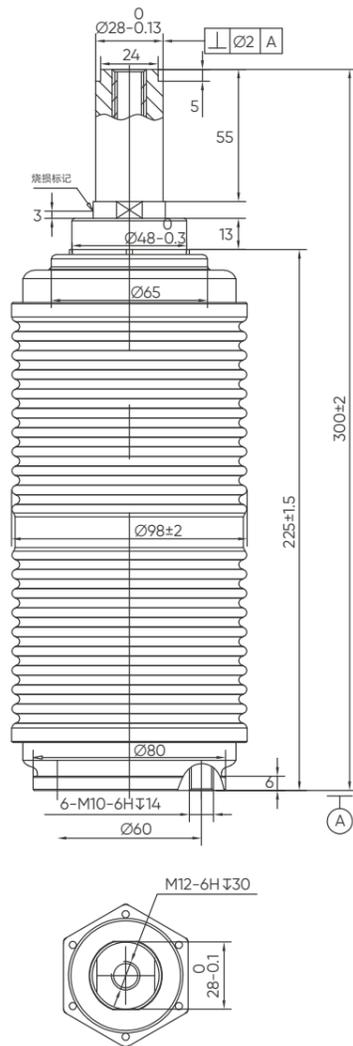
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
4	额定触头压力 Rated Contact Pressure	N	3100±200
5	额定合闸弹跳时间 Contact Pressure at contact touch point	ms	≤2
6	分闸触头反弹幅值 Overtravel during Opening	mm	≤2
7	触头合闸和分闸不同期性 Out of Simultaneity of Closing and Opening	ms	≤3

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
- 真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the V could only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-12/2000-40B | 302F
TD-12/2500-40B | 302F



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	2000/2500
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	48
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	85
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	40
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	100
8	额定短路关合电流 Rated Short-circuit Making Current	kA	100
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	40
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	30
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	210±50
16	触头反力 Counterforce of Contact at Full Stroke	N	300±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	1.0
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)

MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

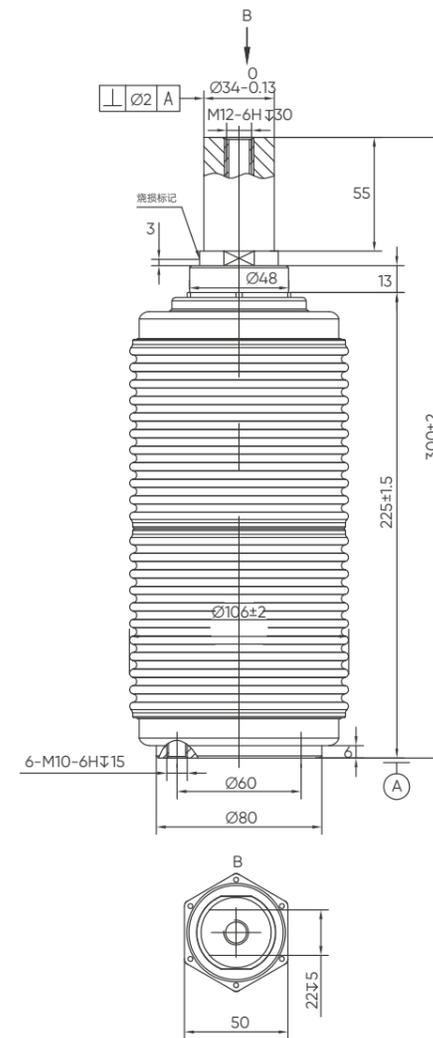
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	9±1
2	平均分闸速度 Average Opening Speed	m/s	1.1±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.75±0.2

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
- 真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-12/3150-40 | 305A



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	3150
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	48
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	85
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	40
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	100
8	额定短路关合电流 Rated Short-circuit Making Current	kA	100
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	40
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	30
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	210±50
16	触头反力 Counterforce of Contact at Full Stroke	N	300±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	1.0
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)

MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

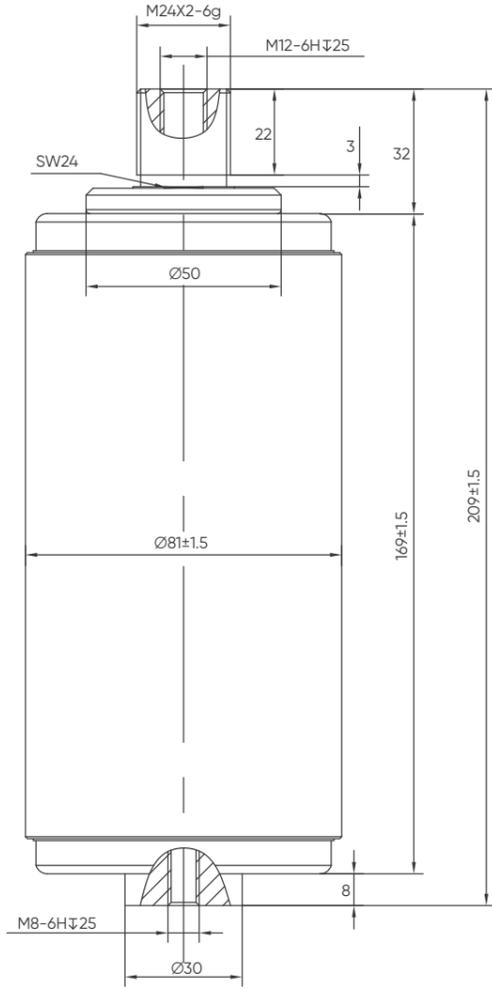
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	9±1
2	平均分闸速度 Average Opening Speed	m/s	1.2±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.75±0.2

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
- 真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-17/1250-22 | 402A



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	17
2	额定电流 Rated Current(Ir)	A	1250
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	36(in air)65 ★
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	50(in air)170 ★
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	22
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	55.8
8	额定短路关合电流 Rated Short-circuit Making Current	kA	55.8
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	22
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	30
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	120±50
16	触头反力 Counterforce of Contact at Full Stroke	N	180±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	$\mu\Omega$	≤ 25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	1.8
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	$< 1.33 \times 10^{-3}$
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)

MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	12±1
2	平均分闸速度 Average Opening Speed	m/s	1.7±0.2
3	平均合闸速度 Average Closing Speed	m/s	1.3±0.2

★ 在变压器油中或等效绝缘介质中
Within Transformer Oil or Equivalent Isolation Medium.

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

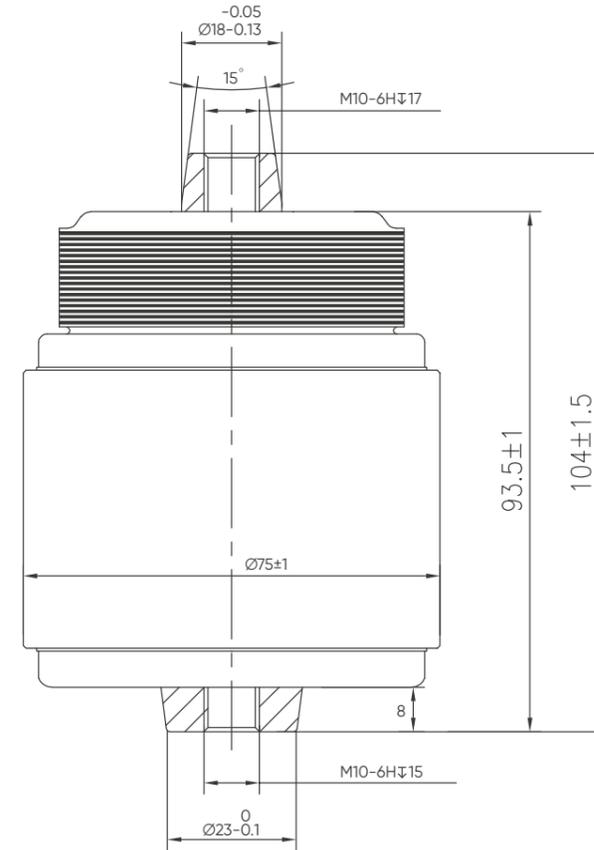
1.产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;

1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;

2.真空灭弧室动导电杆上能承受的扭力矩 $\leq 45N.m$, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。

2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-24/630-20B | 310B



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	24
2	额定电流 Rated Current(Ir)	A	630
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	28(in air)50 ★
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	50(in air)125 ★
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	20
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	50
8	额定短路关合电流 Rated Short-circuit Making Current	kA	50
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	20
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	30
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	50000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	110±50
16	触头反力 Counterforce of Contact at Full Stroke	N	180±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	$\mu\Omega$	≤ 25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	0.3
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	$< 1.33 \times 10^{-3}$
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)

MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	12±1
2	平均分闸速度 Average Opening Speed	m/s	1.0±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.6±0.2

★ 在变压器油中或等效绝缘介质中
Within Transformer Oil or Equivalent Isolation Medium.

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

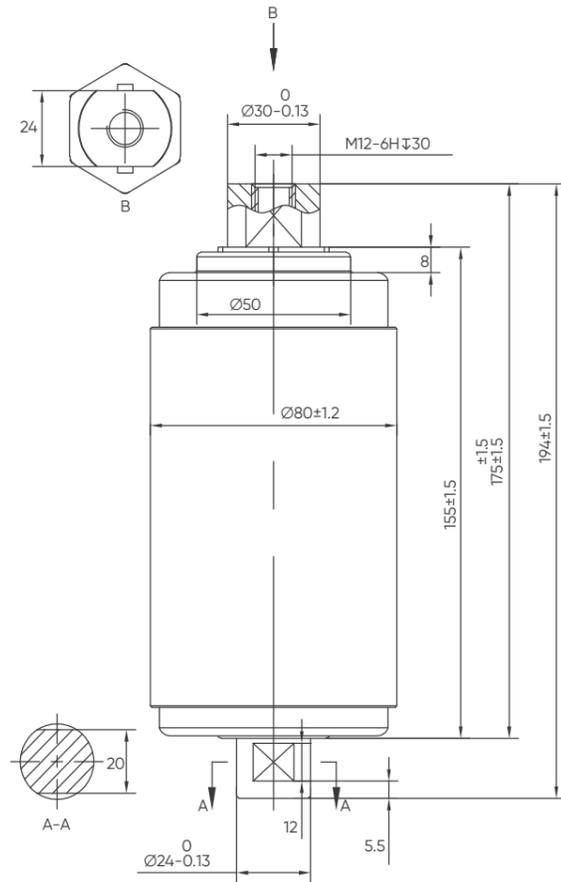
1.产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;

1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;

2.真空灭弧室动导电杆上能承受的扭力矩 $\leq 45N.m$, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。

2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-24/1250-20M | 607



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	1250
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	65 ★
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	125 ★
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	25
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	63
8	额定短路关合电流 Rated Short-circuit Making Current	kA	63
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	25
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	30
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	110±50
16	触头反力 Counterforce of Contact at Full Stroke	N	180±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	0.5
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

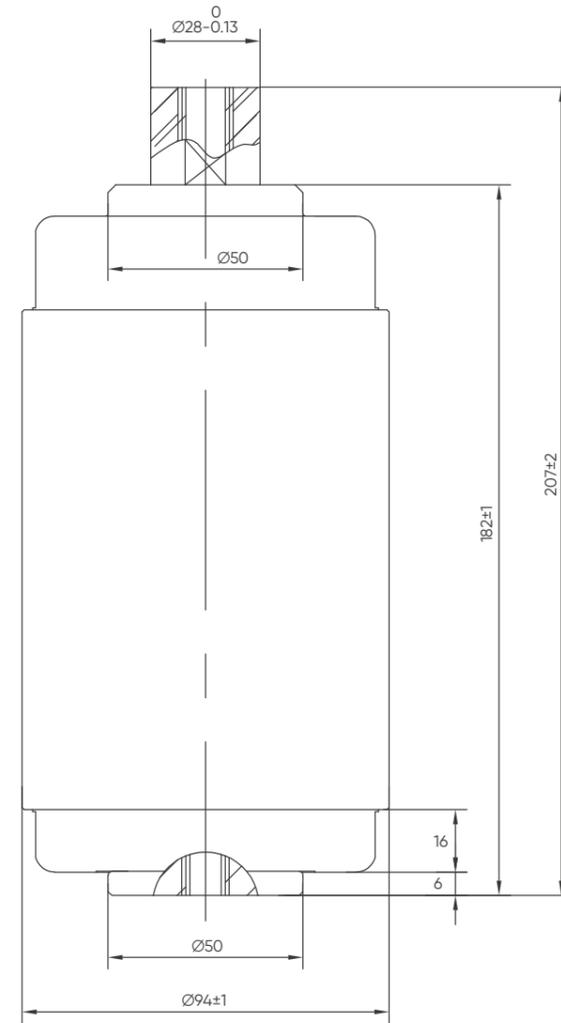
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	15±1
2	平均分闸速度 Average Opening Speed	m/s	1.0±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.6±0.2

★ 在变压器油中或等效绝缘介质中
Within Transformer Oil or Equivalent Isolation Medium.
● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
- 真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-24/1250-25 | 601A



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	24
2	额定电流 Rated Current(Ir)	A	1250
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	65 ★
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	125 ★
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	25
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	63
8	额定短路关合电流 Rated Short-circuit Making Current	kA	63
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	25
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	30
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	120±50
16	触头反力 Counterforce of Contact at Full Stroke	N	180±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	0.5
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

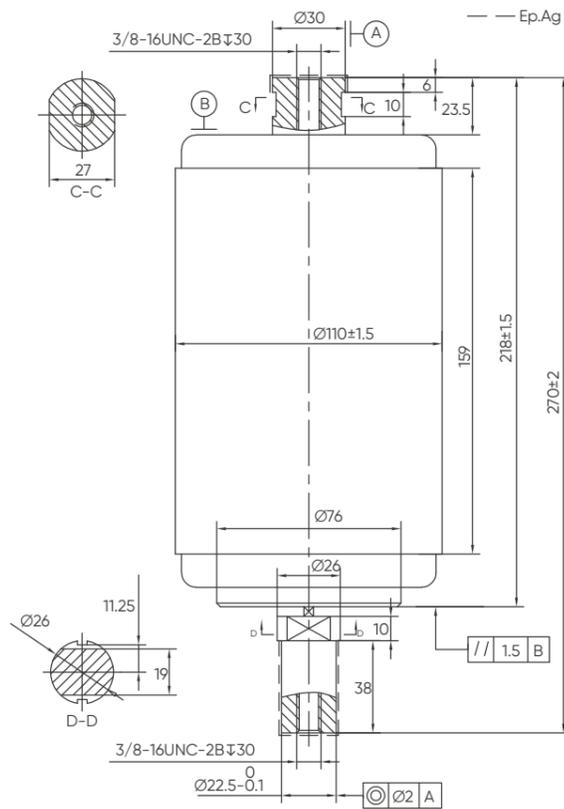
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Cledarance Between Ioen Contacts	mm	13±1
2	平均分闸速度 Average Opening Speed	m/s	1.0±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.6±0.2

★ 在变压器油中或等效绝缘介质中
Within Transformer Oil or Equivalent Isolation Medium.
● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
- 真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-40.5/630-20 | 711A



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	40.5
2	额定电流 Rated Current(Ir)	A	630
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	95 ★
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	185 ★
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	20
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	50
8	额定短路关合电流 Rated Short-circuit Making Current	kA	50
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	20
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	30
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	210±50
16	触头反力 Counterforce of Contact at Full Stroke	N	180±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	1.0
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

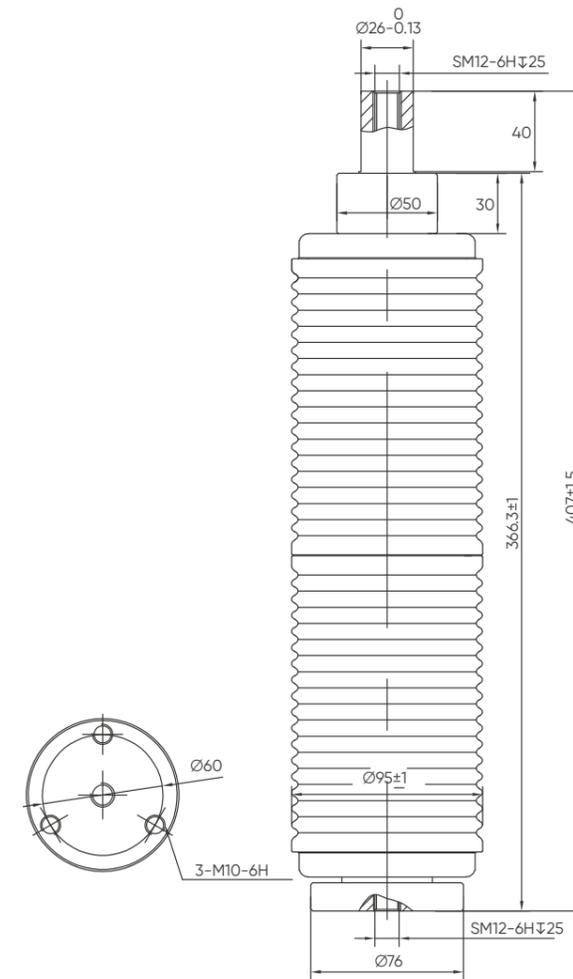
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	18±1
2	平均分闸速度 Average Opening Speed	m/s	1.4±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.8±0.2

★ 在变压器油中或等效绝缘介质中
Within Transformer Oil or Equivalent Isolation Medium.
● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
- 真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-40.5/1250-25C | 702C



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	40.5
2	额定电流 Rated Current(Ir)	A	1250
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	95 ★
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	185 ★
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	25
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	63
8	额定短路关合电流 Rated Short-circuit Making Current	kA	63
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	25
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	30
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	210±50
16	触头反力 Counterforce of Contact at Full Stroke	N	280±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	1.0
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

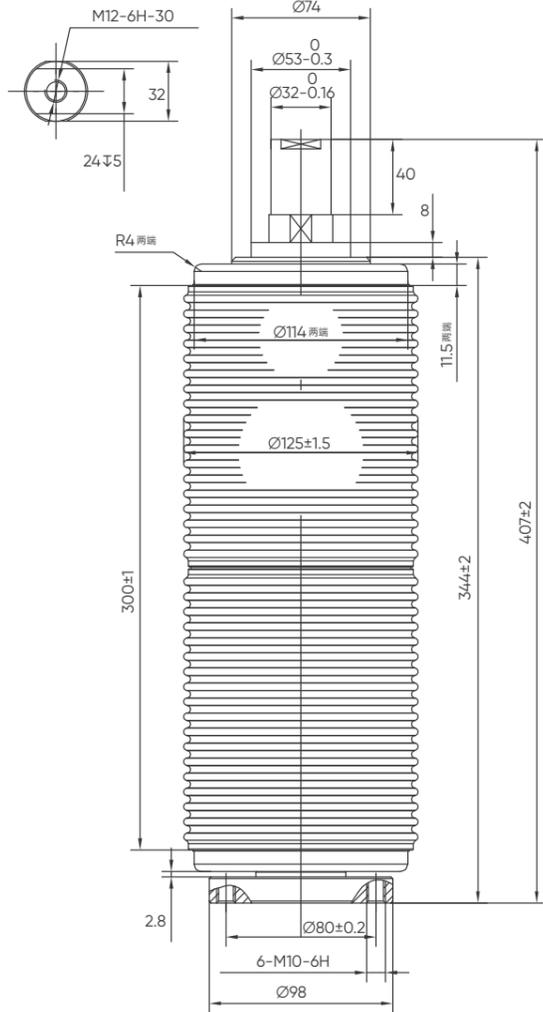
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	18±1
2	平均分闸速度 Average Opening Speed	m/s	1.4±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.8±0.2

★ 在变压器油中或等效绝缘介质中
Within Transformer Oil or Equivalent Isolation Medium.
● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
- 真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-40.5/1600-31.5B | 702A



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	40.5
2	额定电流 Rated Current(Ir)	A	1600
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	95 ★
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	185 ★
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	31.5
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	80
8	额定短路关合电流 Rated Short-circuit Making Current	kA	50
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	31.5
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	30
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	210±50
16	触头反力 Counterforce of Contact at Full Stroke	N	280±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	2.4
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

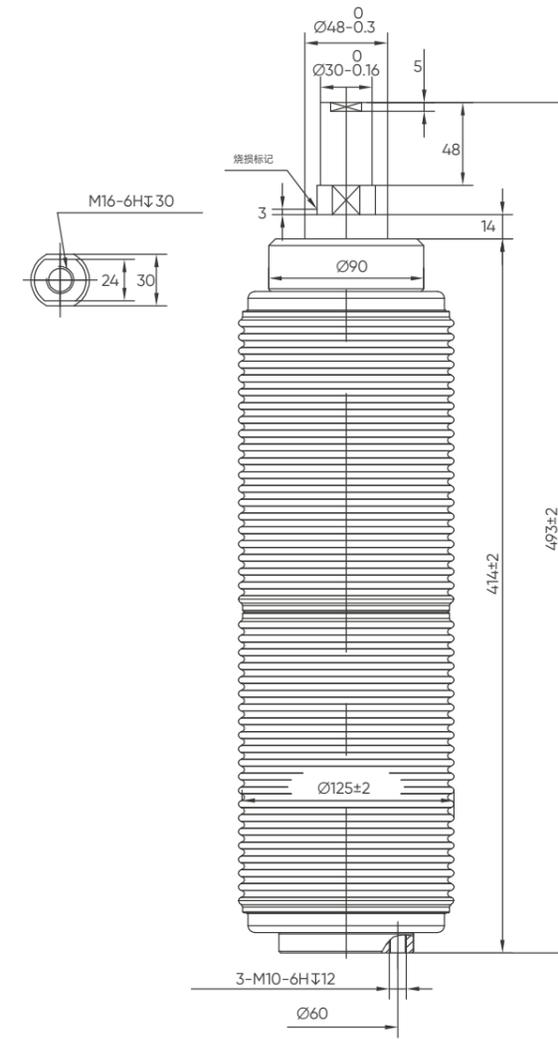
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	20±2
2	平均分闸速度 Average Opening Speed	m/s	1.7±0.2
3	平均合闸速度 Average Closing Speed	m/s	1.3±0.2

★ 在变压器油中或等效绝缘介质中
Within Transformer Oil or Equivalent Isolation Medium.
● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
- 真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-40.5/1600-31.5A | 701A



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	40.5
2	额定电流 Rated Current(Ir)	A	1600
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	95 ★
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	185 ★
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	31.5
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	80
8	额定短路关合电流 Rated Short-circuit Making Current	kA	80
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	31.5
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	30
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	210±50
16	触头反力 Counterforce of Contact at Full Stroke	N	280±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	2.4
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

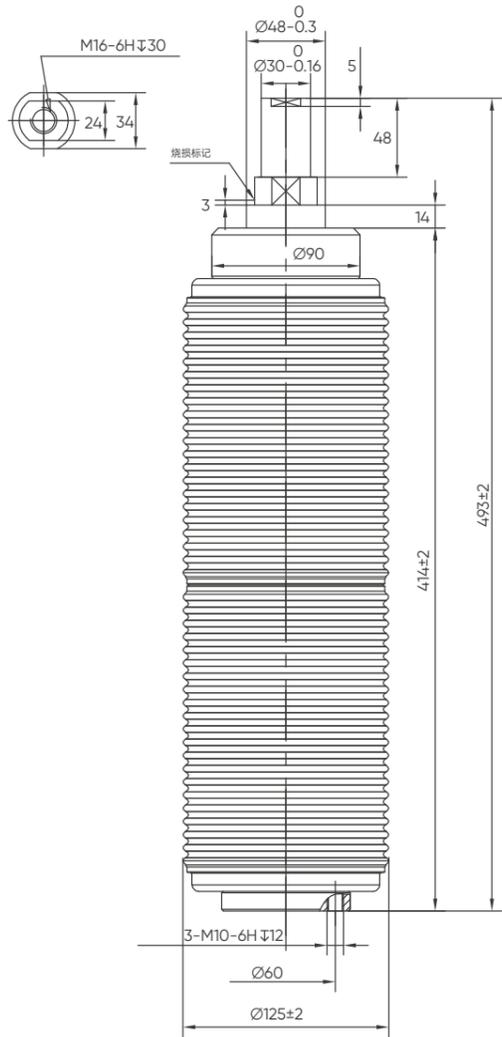
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Cledarance Between Ioen Contacts	mm	20±2
2	平均分闸速度 Average Opening Speed	m/s	1.7±0.2
3	平均合闸速度 Average Closing Speed	m/s	1.3±0.2

★ 在变压器油中或等效绝缘介质中
Within Transformer Oil or Equivalent Isolation Medium.
● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
- 真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-40.5/2000-31.5B | 701C



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	40.5
2	额定电流 Rated Current(Ir)	A	2000
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	95 ★
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	185 ★
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	31.5
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	80
8	额定短路关合电流 Rated Short-circuit Making Current	kA	80
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	31.5
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	30
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	210±50
16	触头反力 Counterforce of Contact at Full Stroke	N	280±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	2.4
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

M16-6H±30

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

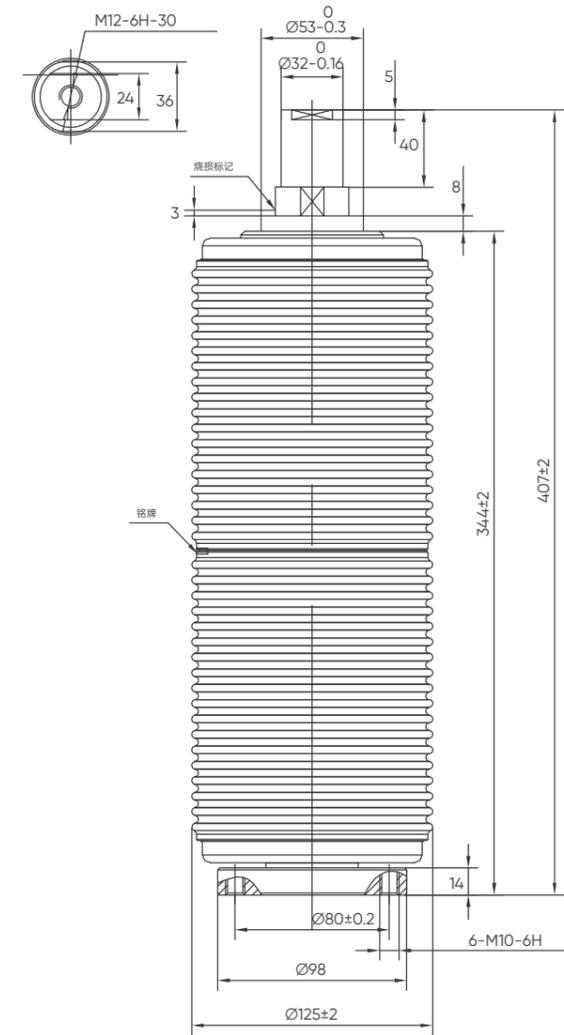
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	20±2
2	平均分闸速度 Average Opening Speed	m/s	1.7±0.2
3	平均分闸速度 Average Closing Speed	m/s	1.3±0.2

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
4	额定触头压力 Rated Contact Pressure	N	3500±200
5	额定合闸弹跳时间 Contact Pressure at contact touch point	ms	≤3
6	分闸触头反弹幅值 Overtravel during Opening	mm	≤2
7	触头合闸和分闸不同期性 Out of Simultaneity of Closing and Opening	ms	≤3

★ 在变压器油中或等效绝缘介质中
Within Transformer Oil or Equivalent Isolation Medium.
● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):
1.产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
2.真空灭弧室导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-40.5/2000-31.5D | 702D



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	40.5
2	额定电流 Rated Current(Ir)	A	2000
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	95 ★
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	185 ★
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	31.5
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	80
8	额定短路关合电流 Rated Short-circuit Making Current	kA	80
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	31.5
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	30
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	210±50
16	触头反力 Counterforce of Contact at Full Stroke	N	280±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	2.4
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

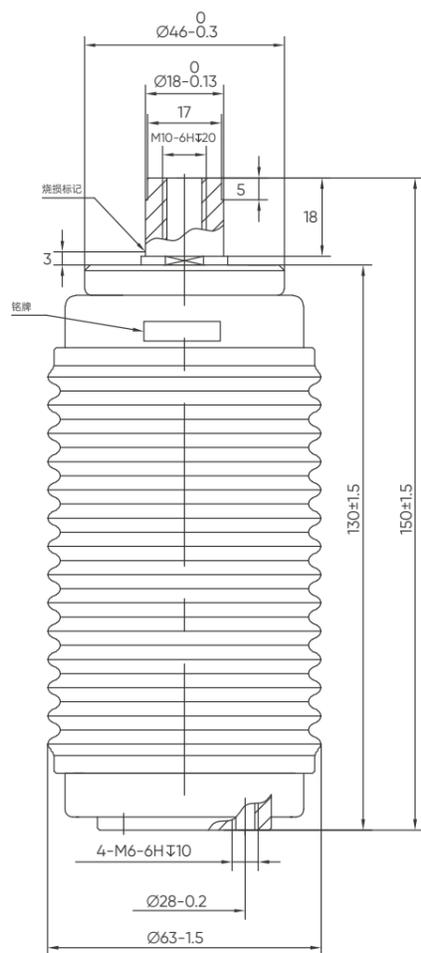
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Cledarance Between Ioen Contacts	mm	20±2
2	平均分闸速度 Average Opening Speed	m/s	1.7±0.2
3	平均分闸速度 Average Closing Speed	m/s	1.3±0.2

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
4	额定触头压力 Rated Contact Pressure	N	3500±200
5	额定合闸弹跳时间 Contact Pressure at contact touch point	ms	≤3
6	分闸触头反弹幅值 Overtravel during Opening	mm	≤2
7	触头合闸和分闸不同期性 Out of Simultaneity of Closing and Opening	ms	≤3

★ 在变压器油中或等效绝缘介质中
Within Transformer Oil or Equivalent Isolation Medium.
● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):
1.产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
2.真空灭弧室导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TF-12/630-20B | 102B



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	630
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	28(in air)48 ★
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	60(in air)75 ★
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	20
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	50
8	额定短路关合电流 Rated Short-circuit Making Current	kA	50
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	20
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定有功负载开断电流 Rated Duration of Short-circuit	A	630
12	额定闭环开断电流 Rated Close-loop Breaking Current	A	630
13	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	A	400 ●
14	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	A	400 ●
15	额定电缆充电开断电流 Rated Breaking Current of Cable Charging	A	10
16	机械寿命 Mechanical Endurance	Time	10000
17	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	90±20
18	触头反力 Counterforce of Contact at Full Stroke	N	140±30
19	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
20	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
21	运动部分质量 Mass of Moving Parts	kg	0.4
22	允许储存期 Shelf Life	year	20
23	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³

配用的真空开关设备的机械特性参数 (建议值)

MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	9±1
2	平均分闸速度 Average Opening Speed	m/s	1.0±0.2
3	平均分闸速度 Average Closing Speed	m/s	0.6±0.2

★ 在变压器油中或等效绝缘介质中
Within Transformer Oil or Equivalent Isolation Medium.

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

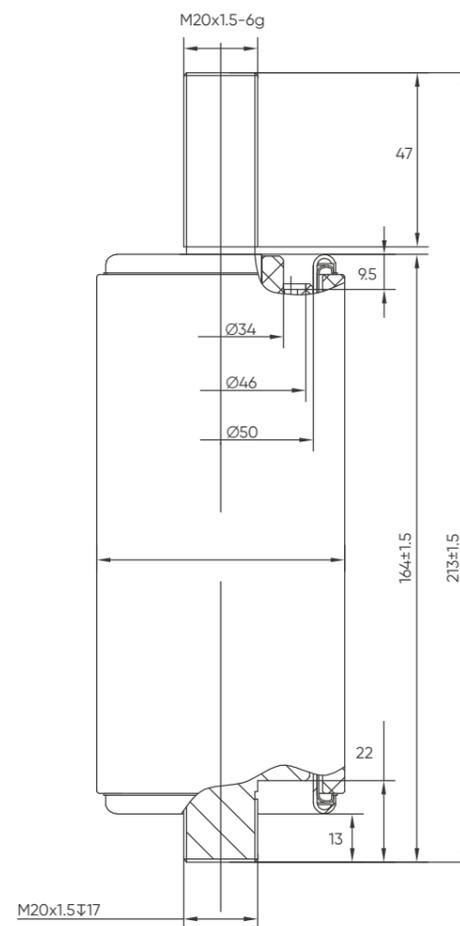
1.产品符合或超过IEC60265-1以及GB/T3804-2004中E2级的要求;

1.Meets or exceeds the electrical endurance requirements of class E2 for IEC60265-1 and GB/T3804-2004;

2.真空灭弧室动导电杆上能承受的扭力矩≤ 30N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。

2.The movable stem of the Vicoould only suffering no more than 30N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TF-12/630-20 | 103H



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	630
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	42 ★
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	75 ★
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	20
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	50
8	额定短路关合电流 Rated Short-circuit Making Current	kA	50
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	20
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定有功负载开断电流 Rated Duration of Short-circuit	A	630
12	额定闭环开断电流 Rated Close-loop Breaking Current	A	630
13	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	A	400 ●
14	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	A	400 ●
15	额定电缆充电开断电流 Rated Breaking Current of Cable Charging	A	10
16	机械寿命 Mechanical Endurance	Time	10000
17	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	90±20
18	触头反力 Counterforce of Contact at Full Stroke	N	140±30
19	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
20	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
21	运动部分质量 Mass of Moving Parts	kg	0.3
22	允许储存期 Shelf Life	year	20
23	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³

配用的真空开关设备的机械特性参数 (建议值)

MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	8±1
2	平均分闸速度 Average Opening Speed	m/s	1.0±0.2
3	平均分闸速度 Average Closing Speed	m/s	0.6±0.2

★ 在变压器油中或等效绝缘介质中
Within Transformer Oil or Equivalent Isolation Medium.

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

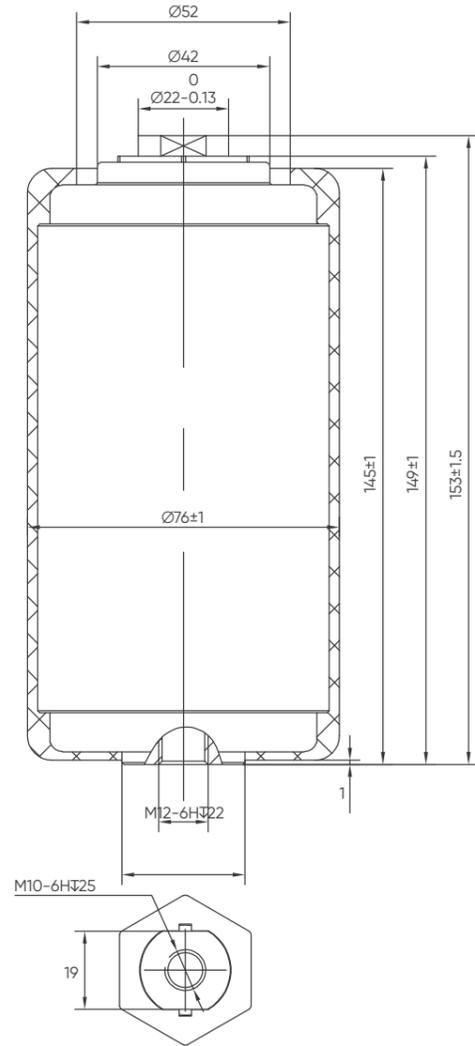
1.产品符合或超过IEC60265-1以及GB/T3804-2004中E2级的要求;

1.Meets or exceeds the electrical endurance requirements of class E2 for IEC60265-1 and GB/T3804-2004;

2.真空灭弧室动导电杆上能承受的扭力矩≤ 30N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。

2.The movable stem of the Vicoould only suffering no more than 30N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TF-12/630-20AR | 102AR



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	630
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	28(in air)48 ★
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	60(in air)75 ★
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	20
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	50
8	额定短路关合电流 Rated Short-circuit Making Current	kA	50
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	20
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定有功负载开断电流 Rated Duration of Short-circuit	A	630
12	额定闭环开断电流 Rated Close-loop Breaking Current	A	630
13	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	A	400 ●
14	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	A	400 ●
15	额定电缆充电开断电流 Rated Breaking Current of Cable Charging	A	10
16	机械寿命 Mechanical Endurance	Time	10000
17	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	90±20
18	触头反力 Counterforce of Contact at Full Stroke	N	140±30
19	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
20	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
21	运动部分质量 Mass of Moving Parts	kg	0.4
22	允许储存期 Shelf Life	year	20
23	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³

配用的真空开关设备的机械特性参数 (建议值)

MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	9±1
2	平均分闸速度 Average Opening Speed	m/s	1.0±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.6±0.2

★ 在变压器油中或等效绝缘介质中
Within Transformer Oil or Equivalent Isolation Medium.

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

1.产品符合或超过IEC60265-1以及GB/T3804-2004中E2级的要求;

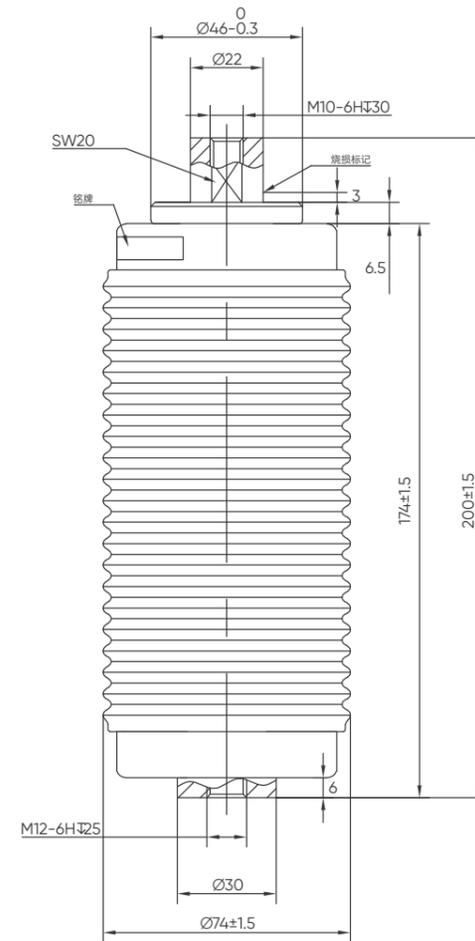
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC60265-1 and GB/T3804-2004;

2.真空灭弧室动导电杆上能承受的扭力矩≤ 30N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。

2.The movable stem of the Vicoould only suffering no more than 30N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
4	额定触头压力 Rated Contance Pressure	N	900±200
5	额定合闸弹跳时间 Contance Pressure at contace touch point	ms	≤2
6	分闸触头反弹幅值 Overtravel during Opening	mm	≤2
7	触头合闸和分闸不同期性 Out of Simultaneity of Closing and Opening	ms	<1

TF-12/630-20 | 110B



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	630
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	48
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	75
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	20
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	50
8	额定短路关合电流 Rated Short-circuit Making Current	kA	50
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	20
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定有功负载开断电流 Rated Duration of Short-circuit	A	630
12	额定闭环开断电流 Rated Close-loop Breaking Current	A	630
13	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	A	400 ●
14	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	A	400 ●
15	额定电缆充电开断电流 Rated Breaking Current of Cable Charging	A	10
16	机械寿命 Mechanical Endurance	Time	10000
17	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	90±20
18	触头反力 Counterforce of Contact at Full Stroke	N	140±30
19	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
20	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
21	运动部分质量 Mass of Moving Parts	kg	0.4
22	允许储存期 Shelf Life	year	20
23	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³

配用的真空开关设备的机械特性参数 (建议值)

MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	9±1
2	平均分闸速度 Average Opening Speed	m/s	1.0±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.6±0.2

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

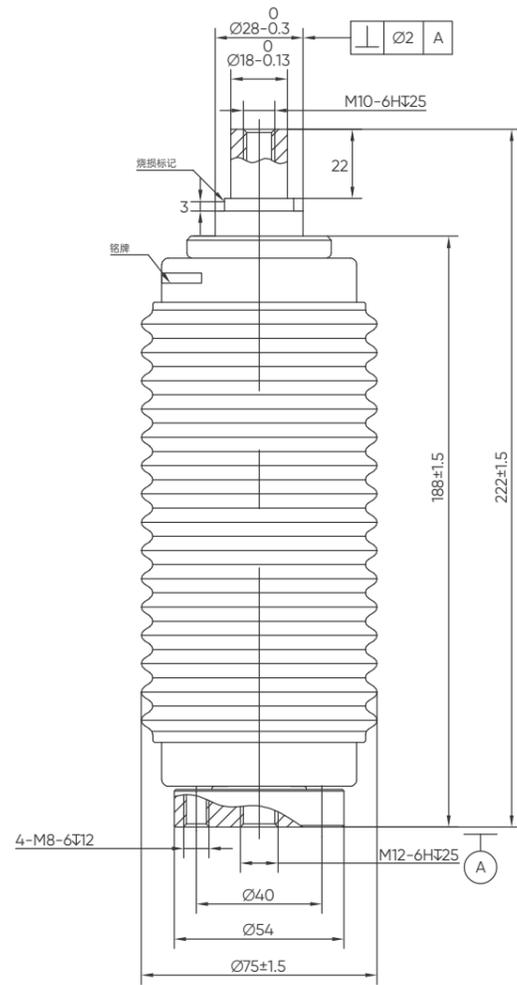
1.产品符合或超过IEC60265-1以及GB/T3804-2004中E2级的要求;

1.Meets or exceeds the electrical endurance requirements of class E2 for IEC60265-1 and GB/T3804-2004;

2.真空灭弧室动导电杆上能承受的扭力矩≤ 30N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。

2.The movable stem of the Vicoould only suffering no more than 30N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TF-12/630-20D | 101D



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	630
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	42
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	75
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	20
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	50
8	额定短路关合电流 Rated Short-circuit Making Current	kA	50
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	20
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定有功负载开断电流 Rated Duration of Short-circuit	A	630
12	额定闭环开断电路 Rated Close-loop Breaking Current	A	630
13	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	A	400 ●
14	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	A	400 ●
15	额定电缆充电开断电流 Rated Breaking Current of Cable Charging	A	10
16	机械寿命 Mechanical Endurance	Time	10000
17	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	90±20
18	触头反力 Counterforce of Contact at Full Stroke	N	140±30
19	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	$\mu\Omega$	≤25
20	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
21	运动部分质量 Mass of Moving Parts	kg	0.4
22	允许储存期 Shelf Life	year	20
23	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	9±1
2	平均分闸速度 Average Opening Speed	m/s	1.0±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.6±0.2

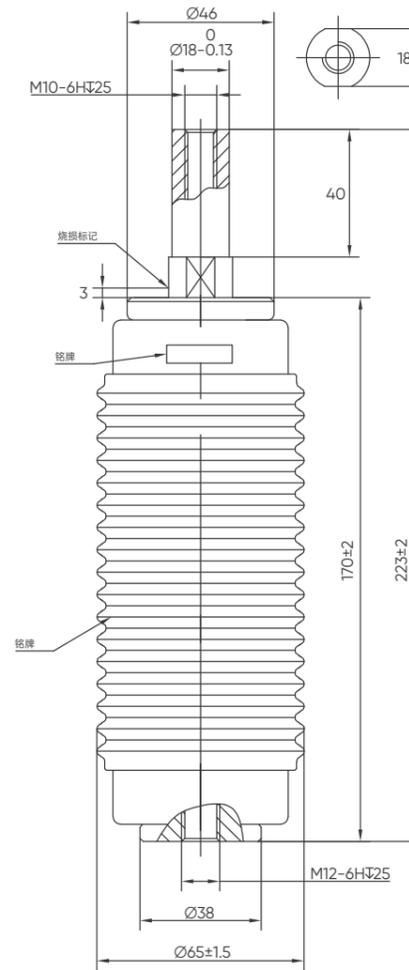
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
4	额定触头压力 Rated Contact Pressure	N	900±200
5	额定合闸弹跳时间 Contact Pressure at contact touch point	ms	≤2
6	分闸触头反弹幅值 Overtravel during Opening	mm	≤2
7	触头合闸和分闸不同期性 Out of Simultaneity of Closing and Opening	ms	<1

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC60265-1以及GB/T3804-2004中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC60265-1 and GB/T3804-2004;
- 真空灭弧室动导电杆上能承受的扭力矩 ≤ 30N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 30N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TF-12/630-20F | 101F



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	630
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	42
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	75
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	20
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	50
8	额定短路关合电流 Rated Short-circuit Making Current	kA	50
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	20
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定有功负载开断电流 Rated Duration of Short-circuit	A	630
12	额定闭环开断电路 Rated Close-loop Breaking Current	A	630
13	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	A	400 ●
14	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	A	400 ●
15	额定电缆充电开断电流 Rated Breaking Current of Cable Charging	A	10
16	机械寿命 Mechanical Endurance	Time	10000
17	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	90±20
18	触头反力 Counterforce of Contact at Full Stroke	N	140±30
19	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	$\mu\Omega$	≤25
20	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
21	运动部分质量 Mass of Moving Parts	kg	0.4
22	允许储存期 Shelf Life	year	20
23	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	9±1
2	平均分闸速度 Average Opening Speed	m/s	1.0±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.6±0.2

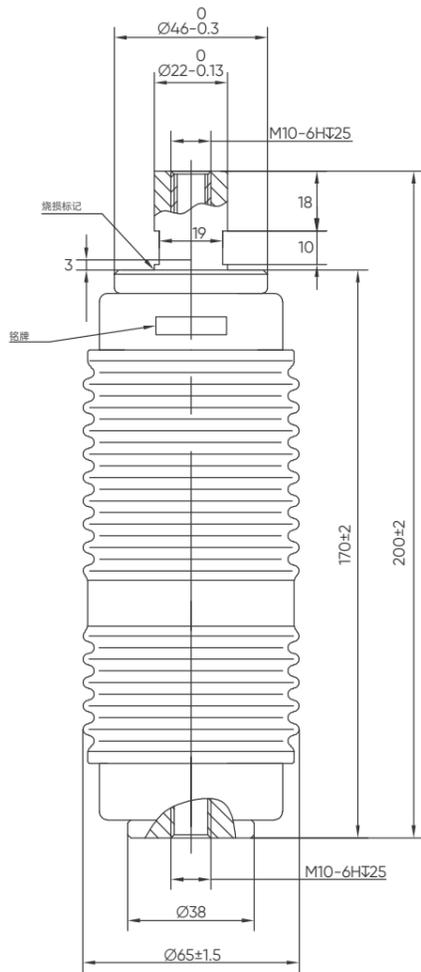
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
4	额定触头压力 Rated Contact Pressure	N	900±200
5	额定合闸弹跳时间 Contact Pressure at contact touch point	ms	≤2
6	分闸触头反弹幅值 Overtravel during Opening	mm	≤2
7	触头合闸和分闸不同期性 Out of Simultaneity of Closing and Opening	ms	<1

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC60265-1以及GB/T3804-2004中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC60265-1 and GB/T3804-2004;
- 真空灭弧室动导电杆上能承受的扭力矩 ≤ 30N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 30N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TF-12/630-20G | 101G



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	630
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	42
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	75
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	20
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	50
8	额定短路关合电流 Rated Short-circuit Making Current	kA	50
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	20
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定有功负载开断电流 Rated Duration of Short-circuit	A	630
12	额定闭环开断电路 Rated Close-loop Breaking Current	A	630
13	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	A	400 ●
14	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	A	400 ●
15	额定电缆充电开断电流 Rated Breaking Current of Cable Charging	A	10
16	机械寿命 Mechanical Endurance	Time	10000
17	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	90±20
18	触头反力 Counterforce of Contact at Full Stroke	N	140±30
19	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
20	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
21	运动部分质量 Mass of Moving Parts	kg	0.4
22	允许储存期 Shelf Life	year	20
23	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³

配用的真空开关设备的机械特性参数 (建议值)

MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	9±1
2	平均分闸速度 Average Opening Speed	m/s	1.0±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.6±0.2

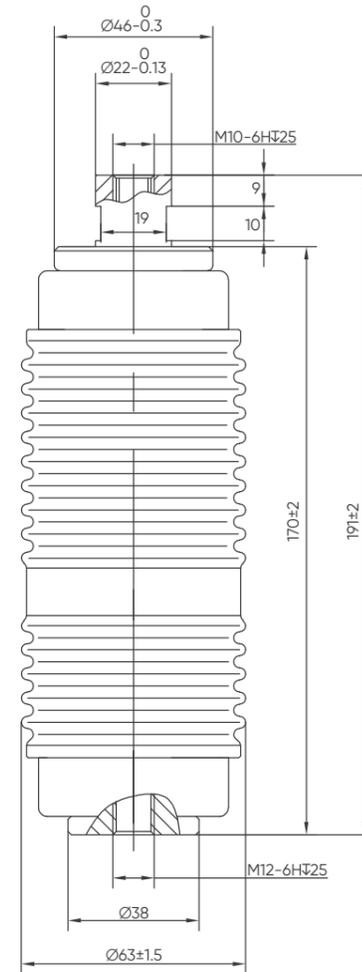
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
4	额定触头压力 Rated Contact Pressure	N	900±200
5	额定合闸弹跳时间 Contact Pressure at contact touch point	ms	≤2
6	分闸触头反弹幅值 Overtravel during Opening	mm	≤2
7	触头合闸和分闸不同期性 Out of Simultaneity of Closing and Opening	ms	<1

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC60265-1以及GB/T3804-2004中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC60265-1 and GB/T3804-2004;
- 真空灭弧室导电杆上能承受的扭力矩≤30N.m, 组装时应采取措施防止导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicoould only suffering no more than 30N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TF-12/630-20H | 110A



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	630
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	42
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	75
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	20
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	50
8	额定短路关合电流 Rated Short-circuit Making Current	kA	50
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	20
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定有功负载开断电流 Rated Duration of Short-circuit	A	630
12	额定闭环开断电路 Rated Close-loop Breaking Current	A	630
13	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	A	400 ●
14	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	A	400 ●
15	额定电缆充电开断电流 Rated Breaking Current of Cable Charging	A	10
16	机械寿命 Mechanical Endurance	Time	10000
17	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	90±20
18	触头反力 Counterforce of Contact at Full Stroke	N	140±30
19	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
20	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
21	运动部分质量 Mass of Moving Parts	kg	0.4
22	允许储存期 Shelf Life	year	20
23	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³

配用的真空开关设备的机械特性参数 (建议值)

MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	9±1
2	平均分闸速度 Average Opening Speed	m/s	1.0±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.6±0.2

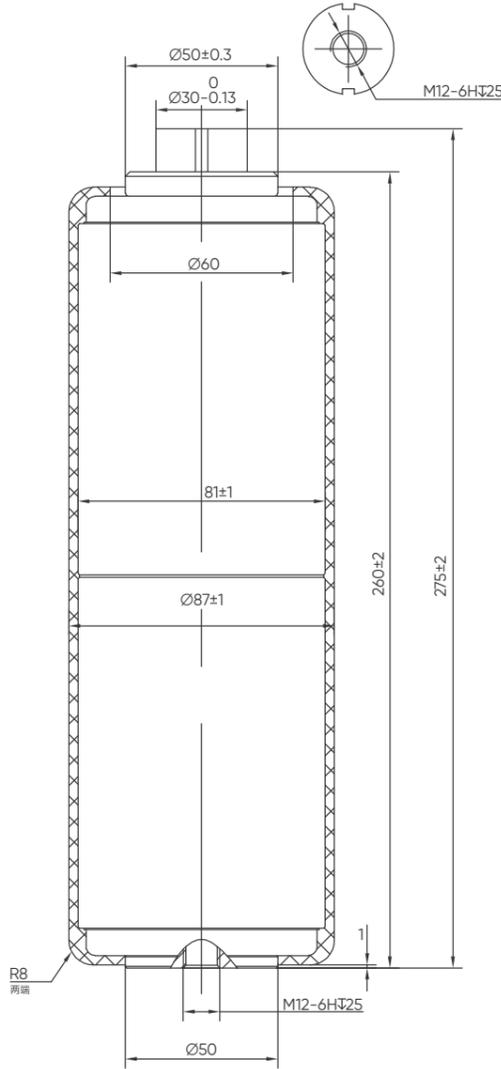
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
4	额定触头压力 Rated Contact Pressure	N	900±200
5	额定合闸弹跳时间 Contact Pressure at contact touch point	ms	≤2
6	分闸触头反弹幅值 Overtravel during Opening	mm	≤2
7	触头合闸和分闸不同期性 Out of Simultaneity of Closing and Opening	ms	<1

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC60265-1以及GB/T3804-2004中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC60265-1 and GB/T3804-2004;
- 真空灭弧室导电杆上能承受的扭力矩≤30N.m, 组装时应采取措施防止导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicoould only suffering no more than 30N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TF-40.5/630-25AR | 140AR
TF-40.5/1250-25AR | 140AR



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	40.5
2	额定电流 Rated Current(Ir)	A	630/1250
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	95 ★
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	185 ★
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	25
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	63
8	额定短路关合电流 Rated Short-circuit Making Current	kA	63
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	25
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定有功负载开断电流 Rated Duration of Short-circuit	A	630/1250
12	额定闭环开断电流 Rated Close-loop Breaking Current	A	630/1250
13	额定电缆充电开断电流 Rated Breaking Current of Cable Charging	A	10
14	机械寿命 Mechanical Endurance	Time	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	90±20
16	触头反力 Counterforce of Contact at Full Stroke	N	140±30
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	0.4
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³

配用的真空开关设备的机械特性参数 (建议值)

MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	18±1
2	平均分闸速度 Average Opening Speed	m/s	1.0±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.6±0.2

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
4	额定触头压力 Rated Contact Pressure	N	900±200
5	额定合闸弹跳时间 Contact Pressure at contact touch point	ms	≤2
6	分闸触头反弹幅值 Overtravel during Opening	mm	≤2
7	触头合闸和分闸不同期性 Out of Simultaneity of Closing and Opening	ms	<1

★ 在变压器油中或等效绝缘介质中
Within Transformer Oil or Equivalent Isolation Medium.

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

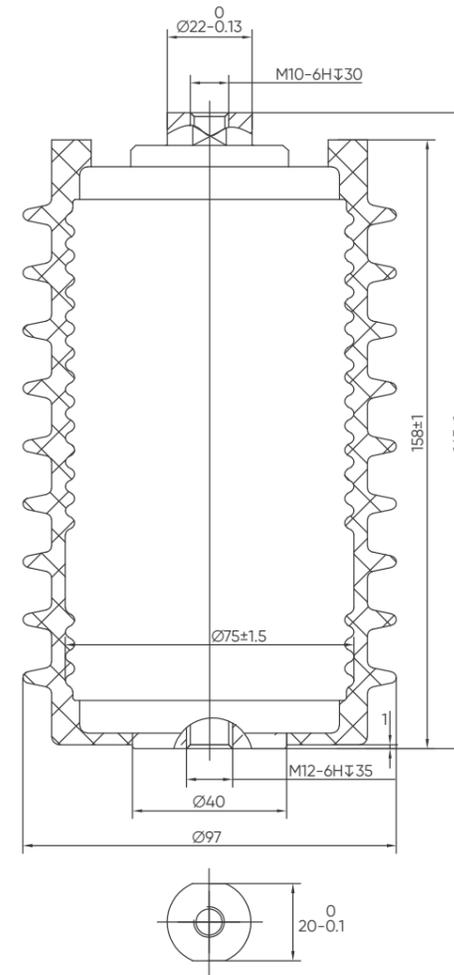
1.产品符合或超过IEC60265-1以及GB/T3804-2004中E2级的要求;

1.Meets or exceeds the electrical endurance requirements of class E2 for IEC60265-1 and GB/T3804-2004;

2.真空灭弧室动导电杆上能承受的扭力矩≤ 30N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。

2.The movable stem of the Vicoould only suffering no more than 30N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TJC-12/630R | 912BR



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]	
1	额定电压 Rated Voltage	kV	12	
2	额定电流 Rated Current(Ir)	A	630	
3	额定频率 Rated Frequency	Hz	50/60	
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	42	
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	75	
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	6.3	
7	最小额定开断电流 Min.Rated Breaking Current	A	126	
8	最大额定开断电流 Max.Rated Breaking Current	kA	5.04	
9	极限开断电流 Limitate Breaking Current	kA	6.3	
10	额定关合电流 Rated Making Current	KA	6.3	
11	额定操作频率 Rated Operating Frequency	Operation/h	120	
12	短时操作频率 Short-time Operating Frequency	Operation/h	1200	
13	额定短路持续时间 Rated Duration of Short-circuit	S	4	
14	机械寿命 Mechanical Endurance	Operation	500000	
15	电寿命 Electrical Endurance	AC-3 AC-4	Operation Operation	100000 250000
16	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	90±50	
17	触头反力 Counterforce of Contact at Full Stroke	N	140±50	
18	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤50	
19	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3	
20	运动部分质量 Mass of Moving Parts	kg	0.4	
21	允许储存期 Shelf Life	year	20	
22	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³	

配用的真空开关设备的机械特性参数 (建议值)

MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	6±1
2	平均分闸速度 Average Opening Speed	m/s	0.6±0.1
3	平均合闸速度 Average Closing Speed	m/s	0.4±0.1

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
4	额定触头压力 Rated Contact Pressure	N	110±10
5	额定合闸弹跳时间 Contact Pressure at contact touch point	ms	≤2
6	分闸触头反弹幅值 Overtravel during Opening	mm	≤2
7	触头合闸和分闸不同期性 Out of Simultaneity of Closing and Opening	ms	<1

注(Note):

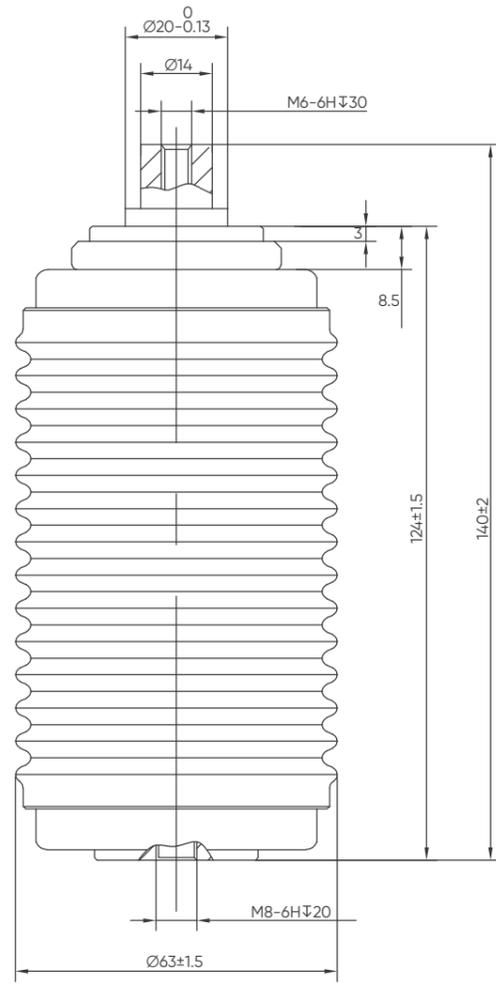
1.产品符合或超过IEC60470以及GB14808-2001中的要求;

1.Meets or exceeds the electrical endurance requirements for IEC60470 and GB14808-2001;

2.真空灭弧室动导电杆上能承受的扭力矩≤ 30N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。

2.The movable stem of the Vicoould only suffering no more than 30N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TJC-12/630 | 920A



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	630
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	32(in air)42 ★
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	50(in air)75 ★
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	6.3
7	最小额定开断电流 Min.Rated Breaking Current	A	126
8	最大额定开断电流 Max.Rated Breaking Current	kA	5.04
9	极限开断电流 Limitate Breaking Current	kA	6.3
10	额定关合电流 Rated Making Current	KA	6.3
11	额定操作频率 Rated Operating Frequency	Operation/h	120
12	短时操作频率 Short-time Operating Frequency	Operation/h	1200
13	额定短路持续时间 Rated Duration of Short-circuit	S	4
14	机械寿命 Mechanical Endurance	Operation	300000
15	电寿命 Electrical Endurance	AC-3 AC-4 Operation	100000 250000
16	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	90±50
17	触头反力 Counterforce of Contact at Full Stroke	N	140±50
18	额定触头压力下回路电阻 Circuit Resistance at Min,Rated Contact Force	μΩ	≤50
19	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
20	运动部分质量 Mass of Moving Parts	kg	0.4
21	允许储存期 Shelf Life	year	20
22	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³

配用的真空开关设备的机械特性参数 (建议值)

MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	6±1
2	平均分闸速度 Average Opening Speed	m/s	0.6±0.1
3	平均合闸速度 Average Closing Speed	m/s	0.4±0.1

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
4	额定触头压力 Rated Contace Pressure	N	110±10
5	额定合闸弹跳时间 Contace Pressure at contace touch point	ms	≤2
6	分闸触头反弹幅值 Overtravel during Opening	mm	≤1
7	触头合闸和分闸不同期性 Out of Simultaneity of Closing and Opening	ms	≤2

★ 在变压器油中或等效绝缘介质中
Within Transformer Oil or Equivalent Isolation Medium.

注(Note):

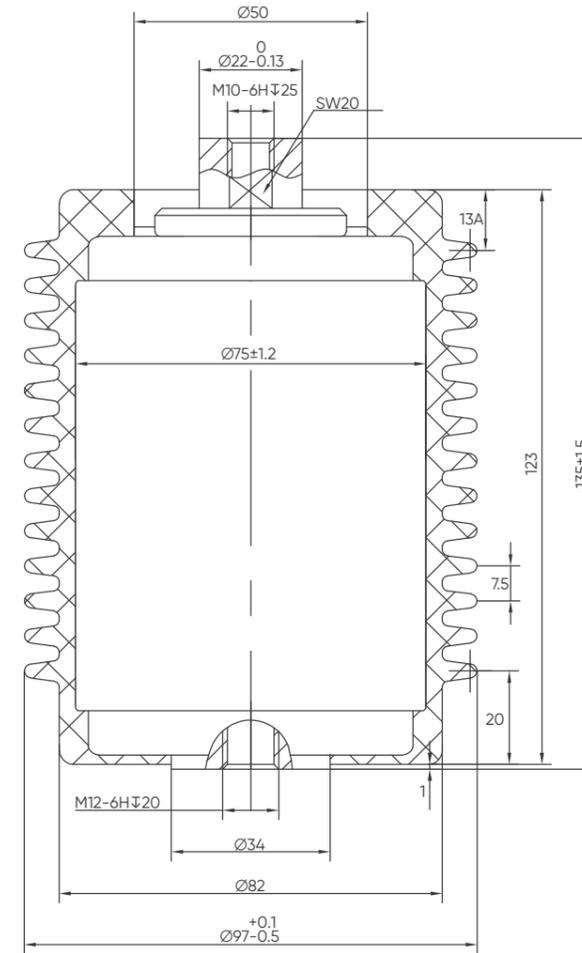
1.产品符合或超过IEC60265-1以及GB/T3804-2004中E2级的要求;

1.Meets or exceeds the electrical endurance requirements of class E2 for IEC60265-1 and GB/T3804-2004;

2.真空灭弧室动导电杆上能承受的扭力矩≤ 30N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。

2.The movable stem of the Vicould only suffering no more than 30N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TJC-12/630SAR | 912AR



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	630
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	42
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	50(in air)75 ★
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	6.3
7	最小额定开断电流 Min.Rated Breaking Current	A	126
8	最大额定开断电流 Max.Rated Breaking Current	kA	5.04
9	极限开断电流 Limitate Breaking Current	kA	6.3
10	额定关合电流 Rated Making Current	KA	6.3
11	额定操作频率 Rated Operating Frequency	Operation/h	120
12	短时操作频率 Short-time Operating Frequency	Operation/h	1200
13	额定短路持续时间 Rated Duration of Short-circuit	S	4
14	机械寿命 Mechanical Endurance	Operation	500000
15	电寿命 Electrical Endurance	AC-3 AC-4 Operation	100000 250000
16	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	90±50
17	触头反力 Counterforce of Contact at Full Stroke	N	140±50
18	额定触头压力下回路电阻 Circuit Resistance at Min,Rated Contact Force	μΩ	≤50
19	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
20	运动部分质量 Mass of Moving Parts	kg	0.4
21	允许储存期 Shelf Life	year	20
22	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³

配用的真空开关设备的机械特性参数 (建议值)

MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	6±1
2	平均分闸速度 Average Opening Speed	m/s	0.5±0.1
3	平均合闸速度 Average Closing Speed	m/s	0.4±0.1

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
4	额定触头压力 Rated Contace Pressure	N	110±10
5	额定合闸弹跳时间 Contace Pressure at contace touch point	ms	≤2
6	分闸触头反弹幅值 Overtravel during Opening	mm	<1
7	触头合闸和分闸不同期性 Out of Simultaneity of Closing and Opening	ms	≤2

★ 在变压器油中或等效绝缘介质中
Within Transformer Oil or Equivalent Isolation Medium.

注(Note):

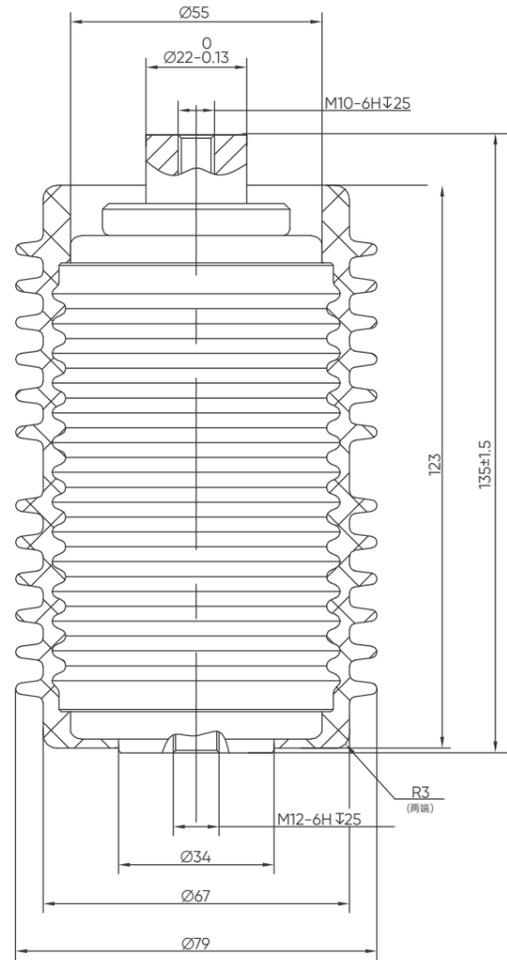
1.产品符合或超过IEC60470以及GB14808-2001中的要求;

1.Meets or exceeds the electrical endurance requirements for IEC60470 and GB14808-2001;

2.真空灭弧室动导电杆上能承受的扭力矩≤ 30N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。

2.The movable stem of the Vicould only suffering no more than 30N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TJC-12/630R | 921AR



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	630
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	42 ★
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	75 ★
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	6.3
7	最小额定开断电流 Min.Rated Breaking Current	A	126
8	最大额定开断电流 Max.Rated Breaking Current	kA	5.04
9	极限开断电流 Limitate Breaking Current	kA	6.3
10	额定关合电流 Rated Making Current	KA	6.3
11	额定操作频率 Rated Operating Frequency	Operation/h	120
12	短时操作频率 Short-time Operating Frequency	Operation/h	1200
13	额定短路持续时间 Rated Duration of Short-circuit	S	4
14	机械寿命 Mechanical Endurance	Operation	300000
15	电寿命 Electrical Endurance	AC-3 AC-4 Operation	100000 250000
16	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	90±50
17	触头反力 Counterforce of Contact at Full Stroke	N	140±50
18	额定触头压力下回路电阻 Circuit Resistance at Min,Rated Contact Force	μΩ	≤50
19	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
20	运动部分质量 Mass of Moving Parts	kg	0.4
21	允许储存期 Shelf Life	year	20
22	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	4±1
2	平均分闸速度 Average Opening Speed	m/s	0.5±0.1
3	平均合闸速度 Average Closing Speed	m/s	0.4±0.1

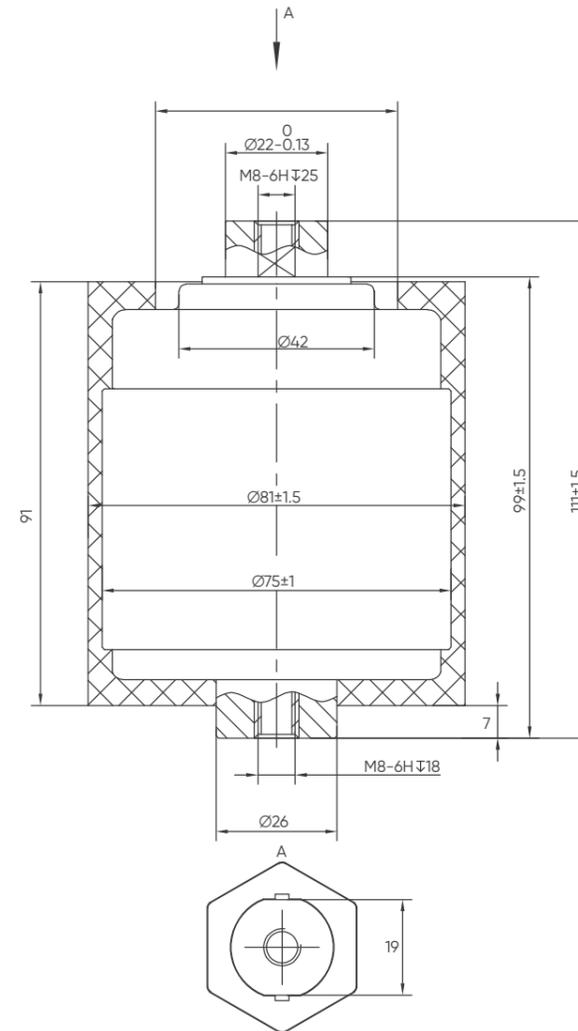
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
4	额定触头压力 Rated Contance Pressure	N	110±10
5	额定合闸弹跳时间 Contance Pressure at contace touch point	ms	≤2
6	分闸触头反弹幅值 Overtravel during Opening	mm	<1
7	触头合闸和分闸不同期性 Out of Simultaneity of Closing and Opening	ms	≤2

★ 在变压器油中或等效绝缘介质中
Within Transformer Oil or Equivalent Isolation Medium.

注(Note):

- 产品符合或超过IEC60265-1以及GB/T3804-2004中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC60265-1 and GB/T3804-2004;
- 真空灭弧室动导电杆上能承受的扭力矩≤ 30N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 30N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TJC-12/500R | 903BR



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	500
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	42 ★
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	75 ★
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	6.3
7	最小额定开断电流 Min.Rated Breaking Current	A	126
8	最大额定开断电流 Max.Rated Breaking Current	kA	5.04
9	极限开断电流 Limitate Breaking Current	kA	6.3
10	额定关合电流 Rated Making Current	KA	6.3
11	额定操作频率 Rated Operating Frequency	Operation/h	120
12	短时操作频率 Short-time Operating Frequency	Operation/h	1200
13	额定短路持续时间 Rated Duration of Short-circuit	S	4
14	机械寿命 Mechanical Endurance	Operation	300000
15	电寿命 Electrical Endurance	AC-3 AC-4 Operation	100000 250000
16	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	90±50
17	触头反力 Counterforce of Contact at Full Stroke	N	140±50
18	额定触头压力下回路电阻 Circuit Resistance at Min,Rated Contact Force	μΩ	≤60
19	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
20	运动部分质量 Mass of Moving Parts	kg	0.33
21	允许储存期 Shelf Life	year	20
22	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	4±1
2	平均分闸速度 Average Opening Speed	m/s	0.6±0.1
3	平均合闸速度 Average Closing Speed	m/s	0.4±0.1

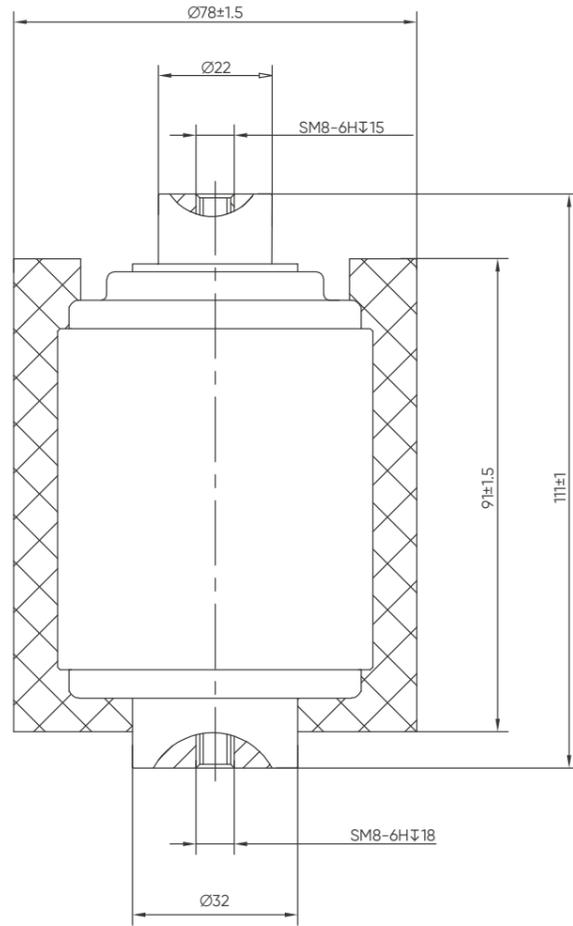
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
4	额定触头压力 Rated Contance Pressure	N	110±10
5	额定合闸弹跳时间 Contance Pressure at contace touch point	ms	≤2
6	分闸触头反弹幅值 Overtravel during Opening	mm	<1
7	触头合闸和分闸不同期性 Out of Simultaneity of Closing and Opening	ms	≤2

★ 在变压器油中或等效绝缘介质中
Within Transformer Oil or Equivalent Isolation Medium.

注(Note):

- 产品符合或超过IEC60470以及GB14808-2001中的要求;
1.Meets or exceeds the electrical endurance requirements for IEC60470 and GB14808-2001;
- 真空灭弧室动导电杆上能承受的扭力矩≤ 30N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 30N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TJC-12/400R | 903AR



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]	
1	额定电压 Rated Voltage	kV	12	
2	额定电流 Rated Current(Ir)	A	400	
3	额定频率 Rated Frequency	Hz	50/60	
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	42 ★	
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	75 ★	
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	6.3	
7	最小额定开断电流 Min.Rated Breaking Current	A	126	
8	最大额定开断电流 Max.Rated Breaking Current	kA	5.04	
9	极限开断电流 Limitate Breaking Current	kA	6.3	
10	额定关合电流 Rated Making Current	KA	6.3	
11	额定操作频率 Rated Operating Frequency	Operation/h	120	
12	短时操作频率 Short-time Operating Frequency	Operation/h	1200	
13	额定短路持续时间 Rated Duration of Short-circuit	S	4	
14	机械寿命 Mechanical Endurance	Operation	300000	
15	电寿命 Electrical Endurance	AC-3 AC-4	Operation Operation	100000 250000
16	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	90±50	
17	触头反力 Counterforce of Contact at Full Stroke	N	140±50	
18	额定触头压力下回路电阻 Circuit Resistance at Min,Rated Contact Force	μΩ	≤45	
19	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3	
20	运动部分质量 Mass of Moving Parts	kg	0.33	
21	允许储存期 Shelf Life	year	20	
22	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³	

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	6±1
2	平均分闸速度 Average Opening Speed	m/s	0.6±0.1
3	平均合闸速度 Average Closing Speed	m/s	0.4±0.1

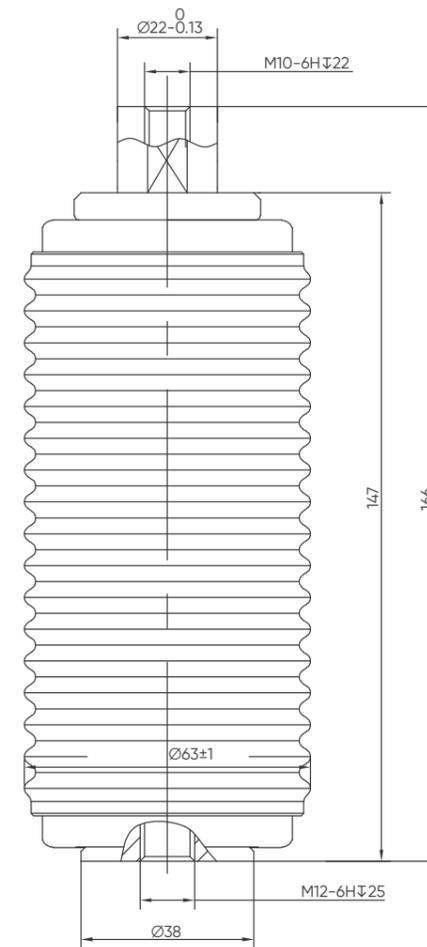
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
4	额定触头压力 Rated Contance Pressure	N	110±10
5	额定合闸弹跳时间 Contance Pressure at contance touch point	ms	≤2
6	分闸触头反弹幅值 Overtravel during Opening	mm	<1
7	触头合闸和分闸不同期性 Out of Simultaneity of Closing and Opening	ms	≤2

★ 在变压器油中或等效绝缘介质中
Within Transformer Oil or Equivalent Isolation Medium.

注(Note):

- 产品符合或超过IEC60265-1以及GB/T3804-2004中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC60265-1 and GB/T3804-2004;
- 真空灭弧室动导电杆上能承受的扭力矩≤ 30N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 30N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TJC-12/630 | 902A



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]	
1	额定电压 Rated Voltage	kV	12	
2	额定电流 Rated Current(Ir)	A	630	
3	额定频率 Rated Frequency	Hz	50/60	
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	42	
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	75	
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	6.3	
7	最小额定开断电流 Min.Rated Breaking Current	A	126	
8	最大额定开断电流 Max.Rated Breaking Current	kA	5.04	
9	极限开断电流 Limitate Breaking Current	kA	6.3	
10	额定关合电流 Rated Making Current	KA	6.3	
11	额定操作频率 Rated Operating Frequency	Operation/h	120	
12	短时操作频率 Short-time Operating Frequency	Operation/h	1200	
13	额定短路持续时间 Rated Duration of Short-circuit	S	4	
14	机械寿命 Mechanical Endurance	Operation	500000	
15	电寿命 Electrical Endurance	AC-3 AC-4	Operation Operation	100000 250000
16	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	90±50	
17	触头反力 Counterforce of Contact at Full Stroke	N	140±50	
18	额定触头压力下回路电阻 Circuit Resistance at Min,Rated Contact Force	μΩ	≤50	
19	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3	
20	运动部分质量 Mass of Moving Parts	kg	0.33	
21	允许储存期 Shelf Life	year	20	
22	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³	

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

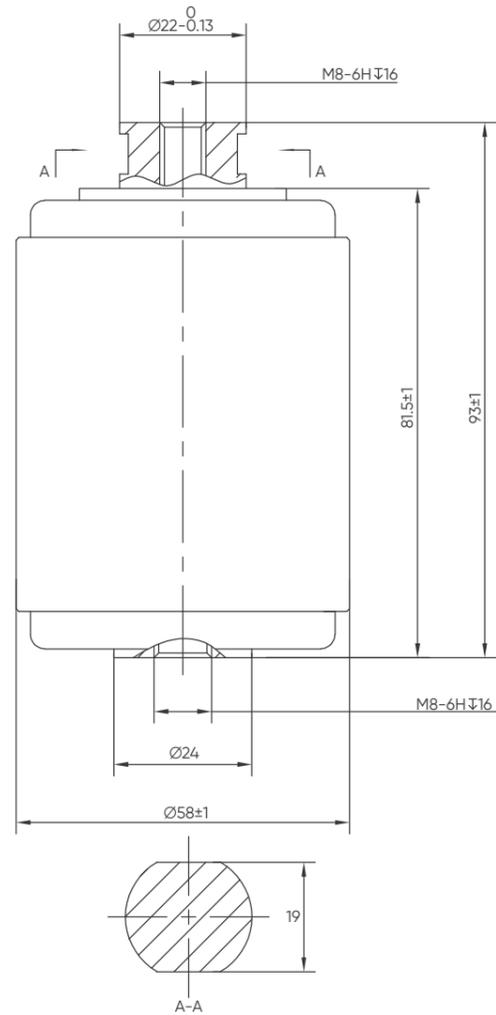
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	6±1
2	平均分闸速度 Average Opening Speed	m/s	0.6±0.1
3	平均合闸速度 Average Closing Speed	m/s	0.4±0.1

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
4	额定触头压力 Rated Contance Pressure	N	110±10
5	额定合闸弹跳时间 Contance Pressure at contance touch point	ms	≤2
6	分闸触头反弹幅值 Overtravel during Opening	mm	<1
7	触头合闸和分闸不同期性 Out of Simultaneity of Closing and Opening	ms	≤2

注(Note):

- 产品符合或超过IEC60470以及GB14808-2001中的要求;
1.Meets or exceeds the electrical endurance requirements for IEC60470 and GB14808-2001;
- 真空灭弧室动导电杆上能承受的扭力矩≤ 30N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 30N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TJC-3.6/630R | 911A



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	630
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	42 ★
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	75 ★
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	6.3
7	最小额定开断电流 Min.Rated Breaking Current	A	126
8	最大额定开断电流 Max.Rated Breaking Current	kA	5.04
9	极限开断电流 Limitate Breaking Current	kA	6.3
10	额定关合电流 Rated Making Current	KA	6.3
11	额定操作频率 Rated Operating Frequency	Operation/h	120
12	短时操作频率 Short-time Operating Frequency	Operation/h	1200
13	额定短路持续时间 Rated Duration of Short-circuit	S	4
14	机械寿命 Mechanical Endurance	Operation	500000
15	电寿命 Electrical Endurance	AC-3 AC-4	Operation 100000 250000
16	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	90±50
17	触头反力 Counterforce of Contact at Full Stroke	N	140±50
18	额定触头压力下回路电阻 Circuit Resistance at Min,Rated Contact Force	μΩ	≤50
19	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
20	运动部分质量 Mass of Moving Parts	kg	0.33
21	允许储存期 Shelf Life	year	20
22	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	6±1
2	平均分闸速度 Average Opening Speed	m/s	0.5±0.1
3	平均合闸速度 Average Closing Speed	m/s	0.75±0.1

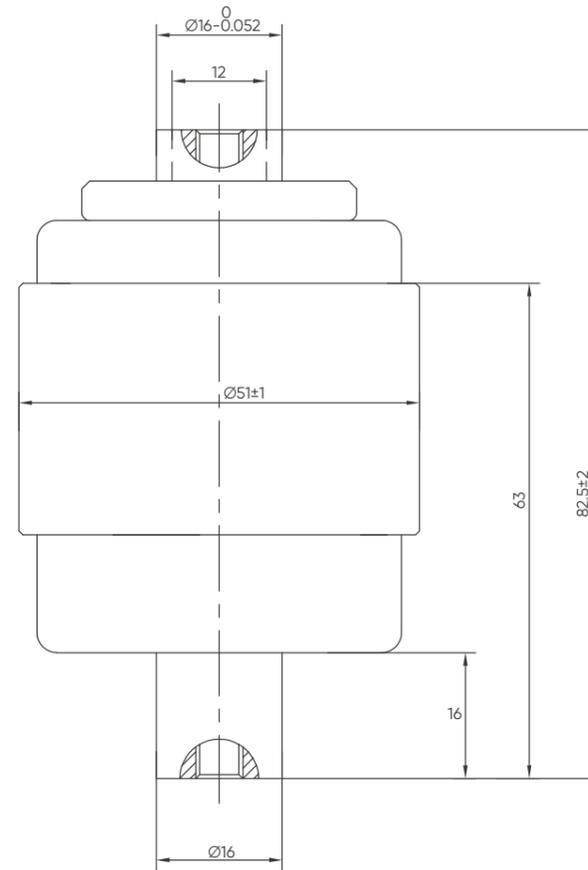
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
4	额定触头压力 Rated Contact Pressure	N	110±10
5	额定合闸弹跳时间 Contact Pressure at contact touch point	ms	≤2
6	分闸触头反弹幅值 Overtravel during Opening	mm	<1
7	触头合闸和分闸不同期性 Out of Simultaneity of Closing and Opening	ms	≤2

★ 在变压器油中或等效绝缘介质中
Within Transformer Oil or Equivalent Isolation Medium.

注(Note):

- 产品符合或超过IEC60265-1以及GB/T3804-2004中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC60265-1 and GB/T3804-2004;
- 真空灭弧室动导电杆上能承受的扭力矩≤ 30N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 30N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TJC-1.14/400R | 901A



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	1.14
2	额定电流 Rated Current(Ir)	A	400
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	5 ★
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	8 ★
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	4
7	最小额定开断电流 Min.Rated Breaking Current	A	80
8	最大额定开断电流 Max.Rated Breaking Current	kA	3.2
9	极限开断电流 Limitate Breaking Current	kA	4
10	额定关合电流 Rated Making Current	KA	4
11	额定操作频率 Rated Operating Frequency	Operation/h	120
12	短时操作频率 Short-time Operating Frequency	Operation/h	1200
13	额定短路持续时间 Rated Duration of Short-circuit	S	4
14	机械寿命 Mechanical Endurance	Operation	10000
15	电寿命 Electrical Endurance	Operation	100000
16	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	60±20
17	触头反力 Counterforce of Contact at Full Stroke	N	110±20
18	额定触头压力下回路电阻 Circuit Resistance at Min,Rated Contact Force	μΩ	≤45
19	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
20	运动部分质量 Mass of Moving Parts	kg	0.33
21	允许储存期 Shelf Life	year	20
22	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	4±1
2	平均分闸速度 Average Opening Speed	m/s	0.5±0.1
3	平均合闸速度 Average Closing Speed	m/s	0.75±0.1

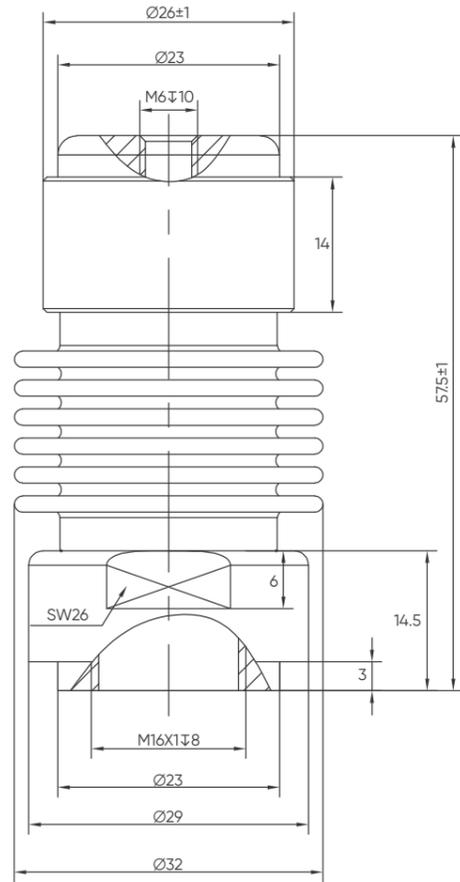
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
4	额定触头压力 Rated Contact Pressure	N	110±10
5	额定合闸弹跳时间 Contact Pressure at contact touch point	ms	≤2
6	分闸触头反弹幅值 Overtravel during Opening	mm	<1
7	触头合闸和分闸不同期性 Out of Simultaneity of Closing and Opening	ms	≤2

★ 在变压器油中或等效绝缘介质中
Within Transformer Oil or Equivalent Isolation Medium.

注(Note):

- 产品符合或超过IEC60470以及GB14808-2001中的要求;
1.Meets or exceeds the electrical endurance requirements for IEC60470 and GB14808-2001;
- 真空灭弧室动导电杆上能承受的扭力矩≤ 30N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 30N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

400V-160A | 900A



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	0.04
2	额定电流 Rated Current(Ir)	A	160
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	5 ★
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	8 ★
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	4
7	最小额定开断电流 Min.Rated Breaking Current	A	80
8	最大额定开断电流 Max.Rated Breaking Current	kA	3.2
9	极限开断电流 Limitate Breaking Current	kA	4
10	额定关合电流 Rated Making Current	KA	4
11	额定操作频率 Rated Operating Frequency	Operation/h	90
12	短时操作频率 Short-time Operating Frequency	Operation/h	1000
13	额定短路持续时间 Rated Duration of Short-circuit	S	4
14	机械寿命 Mechanical Endurance	Operation	10000
15	电寿命 Elecreical Endurance	Operation	100000
16	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	40±20
17	触头反力 Counterforce of Contact at Full Stroke	N	90±20
18	额定触头压力下回路电阻 Circuit Resistance at Min,Rated Contact Force	μΩ	≤45
19	触头允许磨损总厚度 Contact Limit ErosionInternal Pressure	mm	3
20	运动部分质量 Mass of Moving Parts	kg	0.1
21	允许储存期 Shelf Life	year	20
22	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³

配用的真空开关设备的机械特性参数 (建议值)

MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	2±0.5
2	平均分闸速度 Average Opening Speed	m/s	0.75±0.1
3	平均合闸速度 Average Closing Speed	m/s	0.4±0.1

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
4	额定触头压力 Rated Contace Pressure	N	110±10
5	额定合闸弹跳时间 Contace Pressure at contace touch point	ms	≤2
6	分闸触头反弹幅值 Overtravel during Opening	mm	<1
7	触头合闸和分闸不同期性 Out of Simultaneity of Closing and Opening	ms	≤2

★ 在变压器油中或等效绝缘介质中
Within Transformer Oil or Equivalent Isolation Medium.

注(Note):

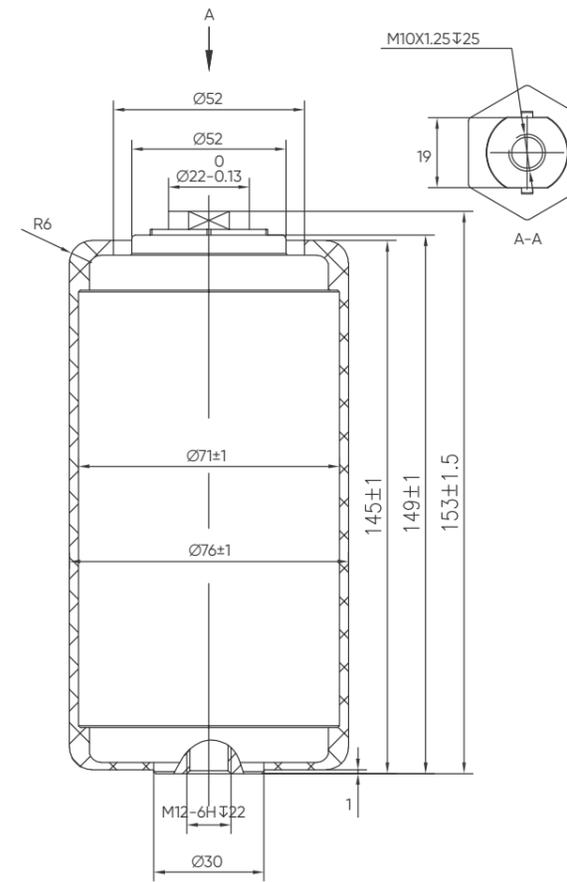
1.产品符合或超过IEC60265-1以及GB/T3804-2004中E2级的要求;

1.Meets or exceeds the electrical endurance requirements of class E2 for IEC60265-1 and GB/T3804-2004;

2.真空灭弧室动导电杆上能承受的扭力矩≤ 30N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。

2.The movable stem of the Vicould only suffering no more than 30N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-12/630-20AR | 320AR



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	630
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	42
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	75
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	20
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	50
8	额定短路关合电流 Rated Short-circuit Making Current	kA	50
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	20
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	15
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	90±50
16	触头反力 Counterforce of Contact at Full Stroke	N	140±50
17	额定触头压力下回路电阻 Circuit Resistance at Min,Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit ErosionInternal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	0.5
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)

MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	9±1
2	平均分闸速度 Average Opening Speed	m/s	1.1±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.6±0.2

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
4	额定触头压力 Rated Contace Pressure	N	2000±200
5	额定合闸弹跳时间 Contace Pressure at contace touch point	ms	≤3
6	分闸触头反弹幅值 Overtravel during Opening	mm	≤2
7	触头合闸和分闸不同期性 Out of Simultaneity of Closing and Opening	ms	≤3

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

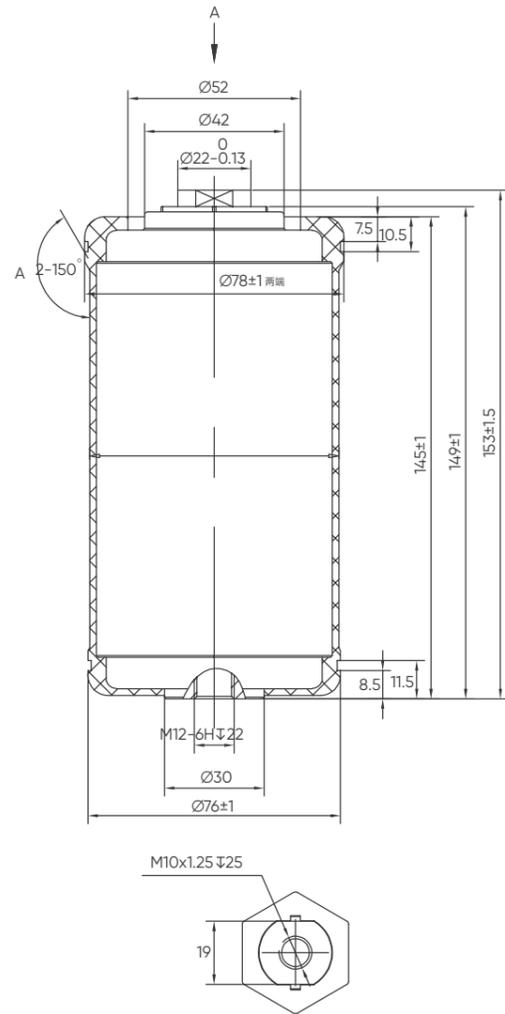
1.产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;

1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;

2.真空灭弧室动导电杆上能承受的扭力矩≤ 45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。

2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-12/630-20R-2 | 320CR



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	630
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	42
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	75
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	20
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	50
8	额定短路关合电流 Rated Short-circuit Making Current	kA	50
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	20
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	15
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	90±50
16	触头反力 Counterforce of Contact at Full Stroke	N	140±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	0.5
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)

MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

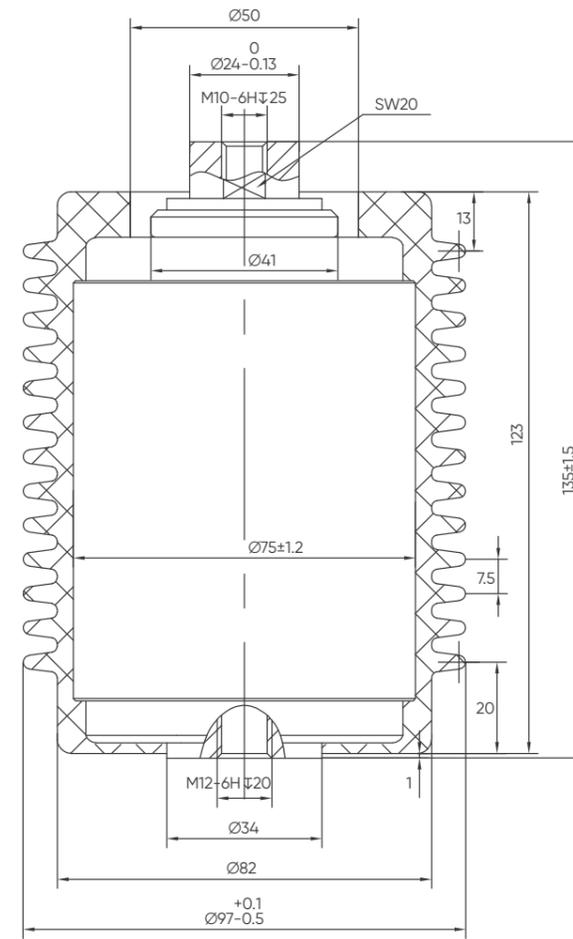
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	平均分闸速度 Average Opening Speed	m/s	1.1±0.2
2	平均合闸速度 Average Closing Speed	m/s	0.6±0.2
3	额定触头压力 Rated Contact Pressure	N	2000±200

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
- 真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the vacuum interrupter can only suffer no more than 45N.m twisting force and in order not to damage the metal bellows, the movable stem should be prevented from rotation when assembling.

TD-12/630-20BR | 912CR



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	630
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	42
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	75
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	25
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	63
8	额定短路关合电流 Rated Short-circuit Making Current	kA	63
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	25
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	315
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	90±50
16	触头反力 Counterforce of Contact at Full Stroke	N	140±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	0.4
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)

MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

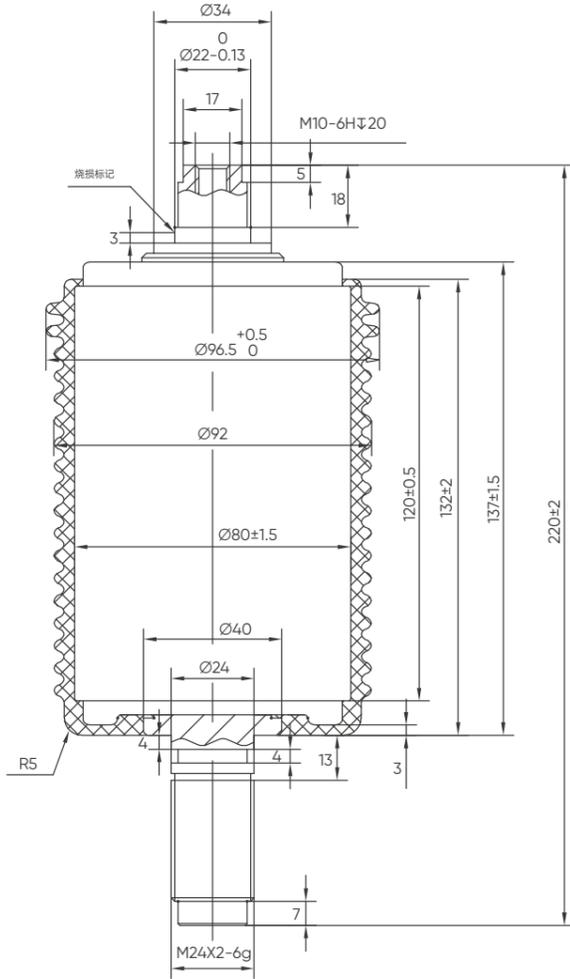
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ionen Contacts	mm	6±1
2	平均分闸速度 Average Opening Speed	m/s	1.0±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.6±0.2

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
- 真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the vacuum interrupter can only suffer no more than 45N.m twisting force and in order not to damage the metal bellows, the movable stem should be prevented from rotation when assembling.

TD-12/630-20HR | 201HR



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	630
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	48
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	85
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	20
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	50
8	额定短路关合电流 Rated Short-circuit Making Current	kA	50
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	20
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	20
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	400 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	80±50
16	触头反力 Counterforce of Contact at Full Stroke	N	120±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	0.5
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

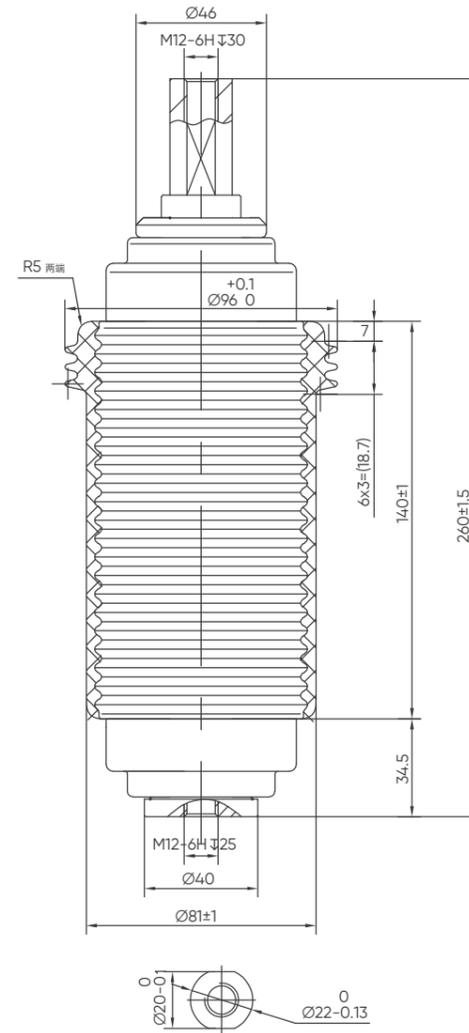
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	平均分闸速度 Average Opening Speed	m/s	1.0±0.2
2	平均合闸速度 Average Closing Speed	m/s	0.6±0.2
3	额定触头压力 Rated Contact Pressure	N	2000±200

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
- 真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicoould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-12/630-25R | 208LR



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	630
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	48
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	85
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	25
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	63
8	额定短路关合电流 Rated Short-circuit Making Current	kA	63
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	25
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	20
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	90±50
16	触头反力 Counterforce of Contact at Full Stroke	N	140±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	0.7
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

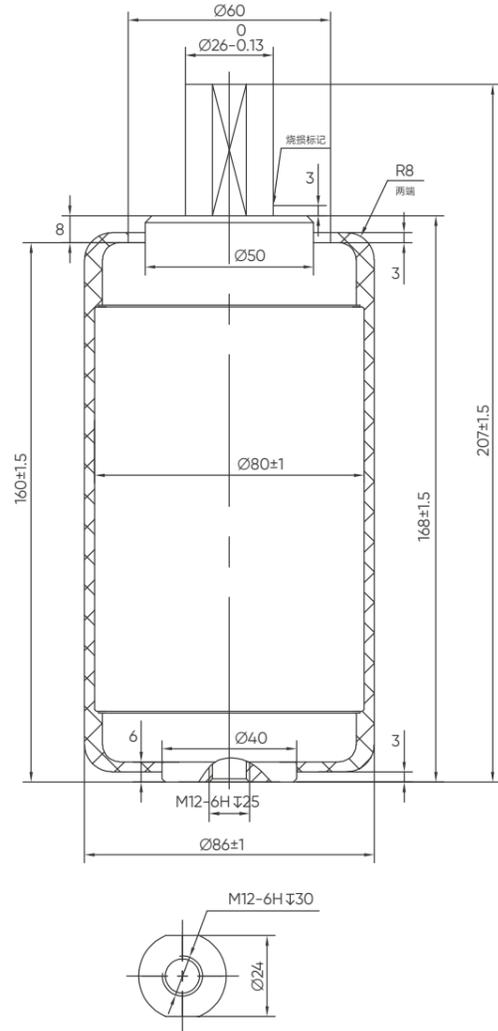
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	9±1
2	平均分闸速度 Average Opening Speed	m/s	1.0±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.6±0.2

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
- 真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicoould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-12/630-25AR | 318GR
TD-12/1250-31.5BR | 318HR



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	630/1250
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	48
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	85
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	25/31.5
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	63/80
8	额定短路关合电流 Rated Short-circuit Making Current	kA	63/80
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	25/31.5
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	20
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	110±50
16	触头反力 Counterforce of Contact at Full Stroke	N	180±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	0.7
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)

MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

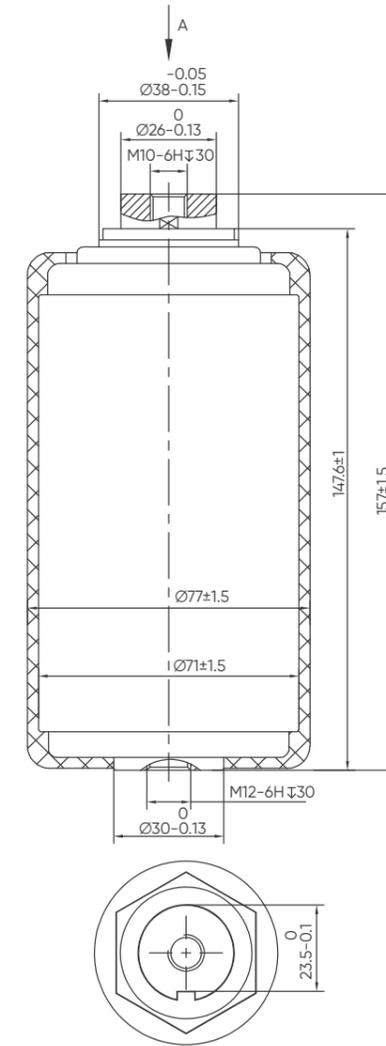
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	9±1
2	平均分闸速度 Average Opening Speed	m/s	1.0±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.6±0.2

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
- 真空灭弧室导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vico could only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-12/1250-25BR | 322AR



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	24
2	额定电流 Rated Current(Ir)	A	1250
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	48
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	85
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	25
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	63
8	额定短路关合电流 Rated Short-circuit Making Current	kA	63
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	25
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	15
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	120±50
16	触头反力 Counterforce of Contact at Full Stroke	N	180±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	1.0
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)

MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	12±1
2	平均分闸速度 Average Opening Speed	m/s	1.0±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.6±0.2

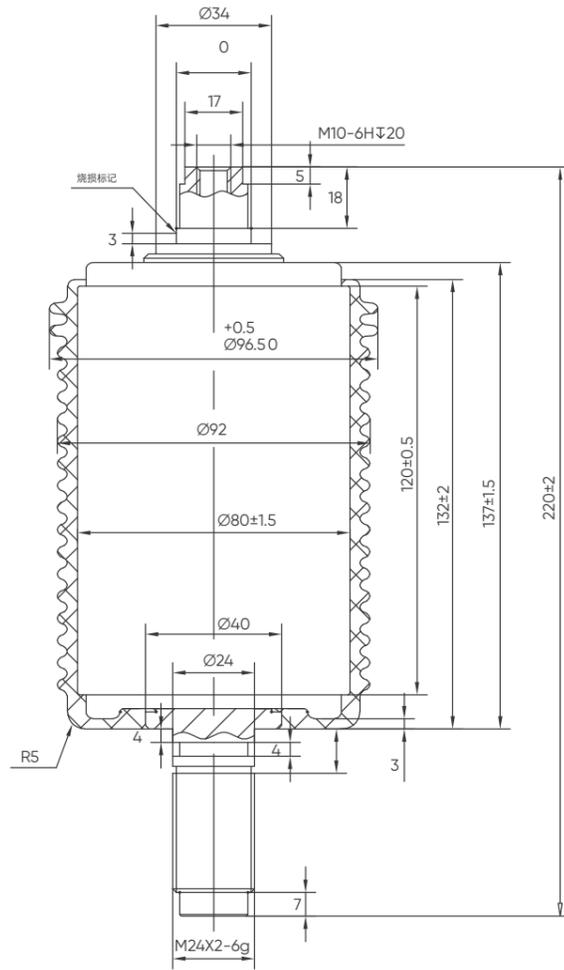
★ 在变压器油中等效绝缘介质中
Within Transformer Oil or Equivalent Isolation Medium.

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
- 真空灭弧室导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vico could only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-12/1250-25BR | 201BR



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	1250
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	48
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	85
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	25
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	63
8	额定短路关合电流 Rated Short-circuit Making Current	kA	63
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	25
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	15
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	120±50
16	触头反力 Counterforce of Contact at Full Stroke	N	180±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	0.7
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

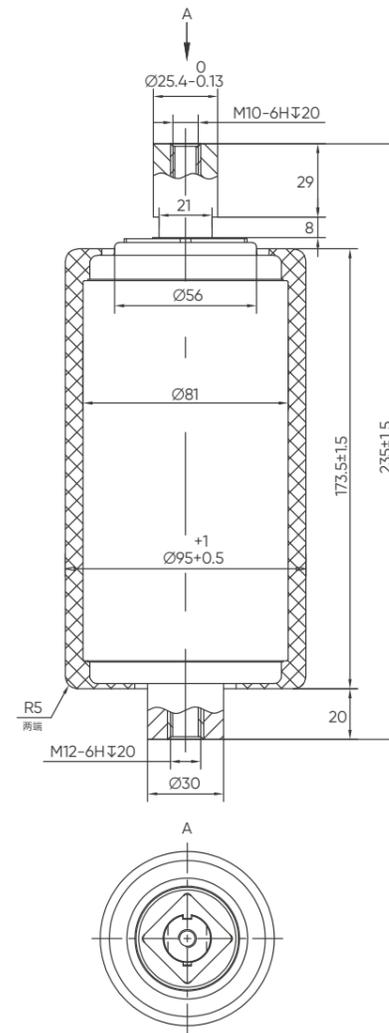
配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	9±1
2	平均分闸速度 Average Opening Speed	m/s	1.0±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.6±0.2

★ 在变压器油中或等效绝缘介质中
Within Transformer Oil or Equivalent Isolation Medium.
● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):
1.产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
2.真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-24/630-25AR | 606AR
TD-36/630-20BR | 705BR



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	24 36
2	额定电流 Rated Current(Ir)	A	630 630
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	32 (in air) 65
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	50 (in air) 125
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	25/2063
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	63/50
8	额定短路关合电流 Rated Short-circuit Making Current	kA	63/50
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	25/20
10	额定短路持续时间 Rated Duration of Short-circuit	S	30
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	630
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	400 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	50000 ●
14	机械寿命 Mechanical Endurance	Operation	110±50
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	180±50
16	触头反力 Counterforce of Contact at Full Stroke	N	≤25
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	3
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	0.5
19	运动部分质量 Mass of Moving Parts	kg	20
20	允许储存期 Shelf Life	year	<1.33x10
21	内部气体压力 Internal Pressure	Pa	⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

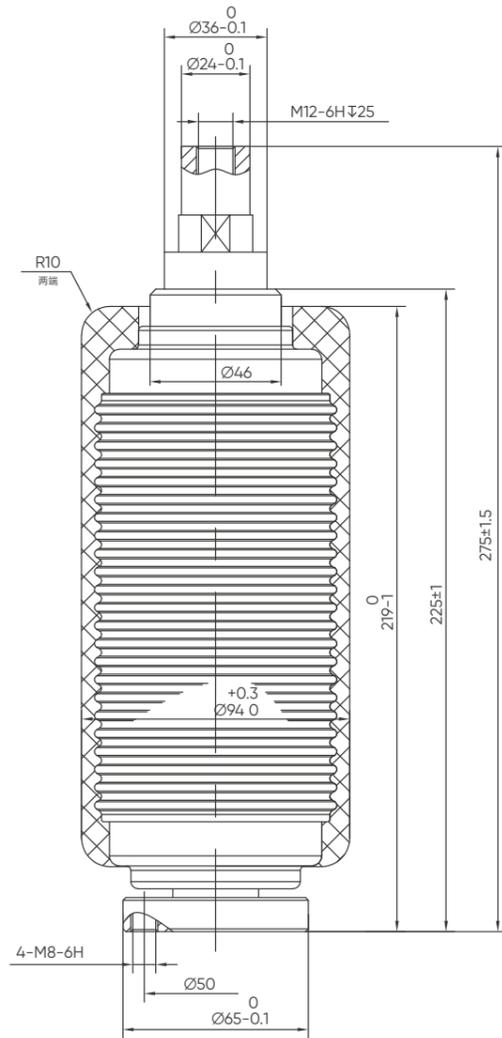
配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	12±1
2	平均分闸速度 Average Opening Speed	m/s	1.0±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.6±0.2

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):
1.产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
2.真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-24/1250-25CR | 608CR



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	24
2	额定电流 Rated Current(Ir)	A	1250
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	65
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	125
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	25
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	63
8	额定短路关合电流 Rated Short-circuit Making Current	kA	63
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	25
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	20
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	210±50
16	触头反力 Counterforce of Contact at Full Stroke	N	280±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	0.7
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

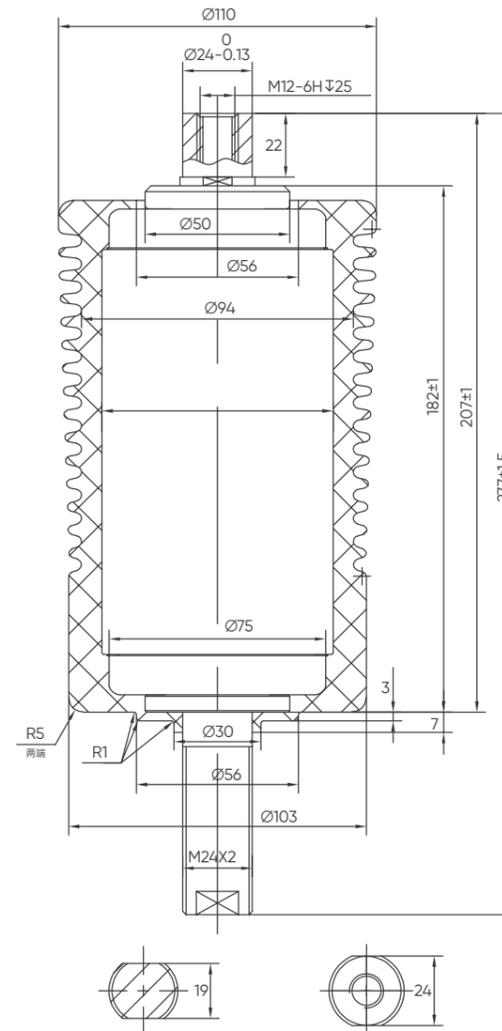
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	平均分闸速度 Average Opening Speed	m/s	1.4±0.2
2	平均合闸速度 Average Closing Speed	m/s	0.8±0.2
3	额定触头压力 Rated Contact Pressure	N	3500±200

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
- 真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the V could only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-24/1250-25AR | 603BR



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	24
2	额定电流 Rated Current(Ir)	A	1250
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	65
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	125
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	20
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	50
8	额定短路关合电流 Rated Short-circuit Making Current	kA	50
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	20
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	30
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	110±50
16	触头反力 Counterforce of Contact at Full Stroke	N	180±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	0.5
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

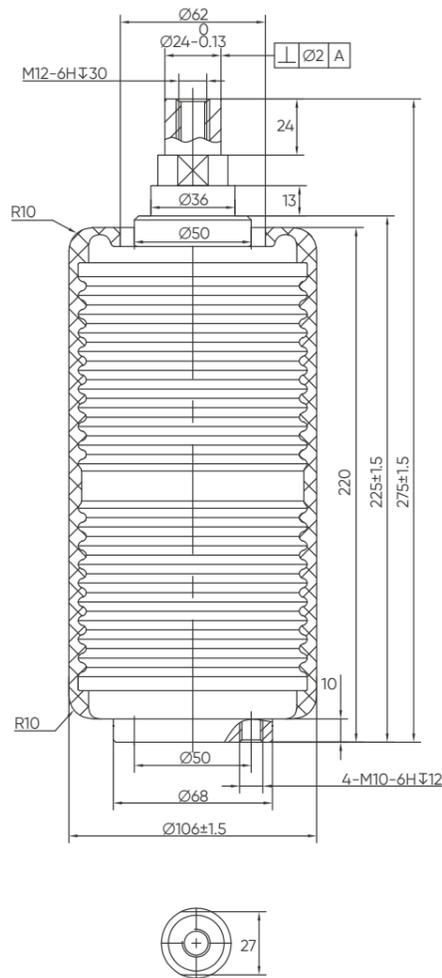
序号	参数项目 [DATA]	单位 [UNIT]	参数值
1	额定开距 Clearance Between Ioen Contacts	mm	12±1
2	平均分闸速度 Average Opening Speed	m/s	1.4±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.8±0.2

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
- 真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the V could only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-24/1600-20DR | 302DR



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	24
2	额定电流 Rated Current(Ir)	A	1600
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	65
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	125
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	31.5
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	80
8	额定短路关合电流 Rated Short-circuit Making Current	kA	80
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	31.5
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	25
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	400/630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	110±50
16	触头反力 Counterforce of Contact at Full Stroke	N	180±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	0.9
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

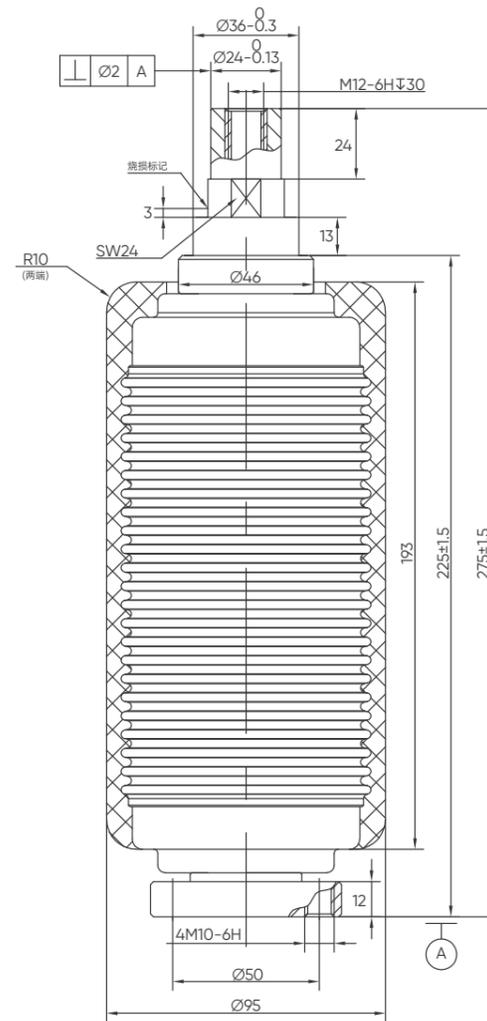
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	12±1
2	平均分闸速度 Average Opening Speed	m/s	1.1±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.75±0.2

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
- 真空灭弧室动导电杆上能承受的扭力矩 ≤ 45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-24/1250-31.5AR | 208GR



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	24
2	额定电流 Rated Current(Ir)	A	1250
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	65
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	125
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	31.5
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	80
8	额定短路关合电流 Rated Short-circuit Making Current	kA	80
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	31.5
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	20
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	210±50
16	触头反力 Counterforce of Contact at Full Stroke	N	280±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	1.0
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

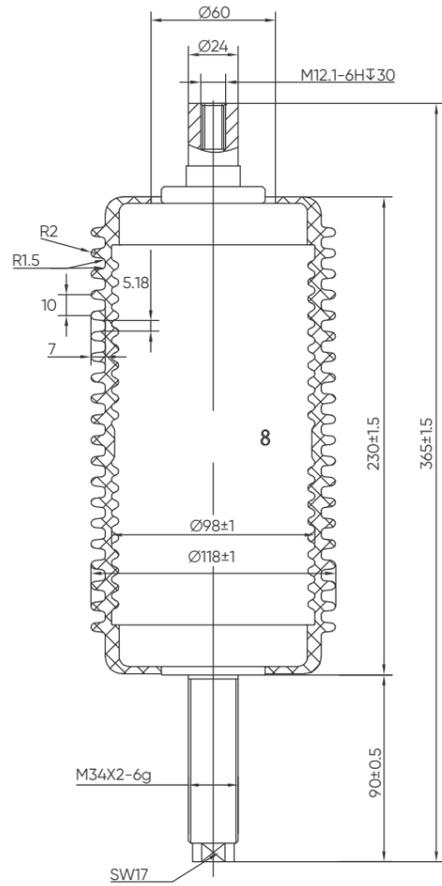
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	12±1
2	平均分闸速度 Average Opening Speed	m/s	1.4±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.8±0.2

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
- 真空灭弧室动导电杆上能承受的扭力矩 ≤ 45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-40.5/630-25R | 711BR



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	40.5
2	额定电流 Rated Current(Ir)	A	630
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	70(in air)95 ★
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	170 ★
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	25
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	63
8	额定短路关合电流 Rated Short-circuit Making Current	kA	63
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	25
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	30
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	120±50
16	触头反力 Counterforce of Contact at Full Stroke	N	180±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	2.1
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)

MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

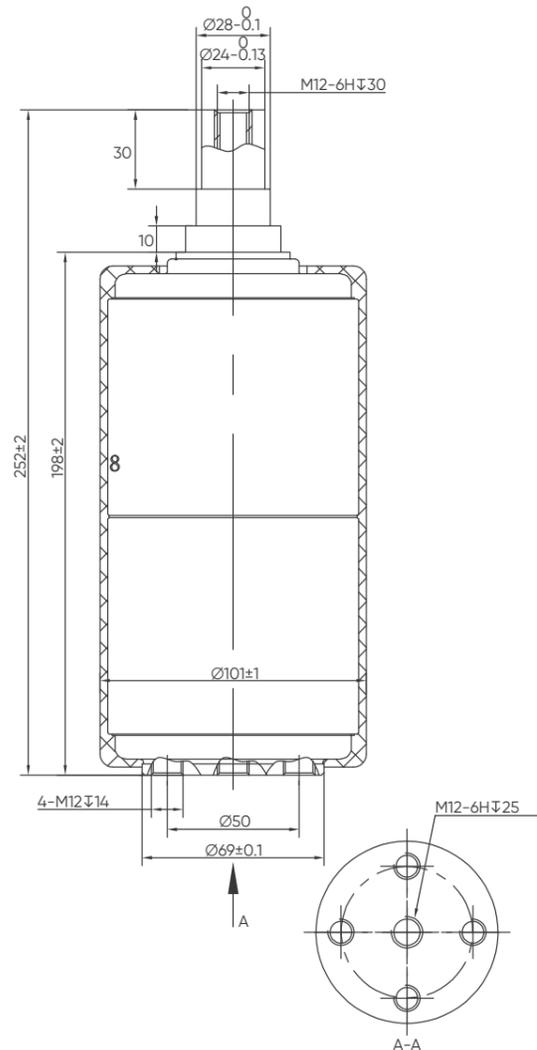
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	18±1
2	平均分闸速度 Average Opening Speed	m/s	1.7±0.2
3	平均合闸速度 Average Closing Speed	m/s	1.3±0.2

★ 在变压器油中或等效绝缘介质中
Within Transformer Oil or Equivalent Isolation Medium.
● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
- 真空灭弧室导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-40.5/630-20R | 706AR



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	40.5
2	额定电流 Rated Current(Ir)	A	630
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	95 ★
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	185 ★
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	31.5
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	80
8	额定短路关合电流 Rated Short-circuit Making Current	kA	80
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	31.5
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	30
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	140±50
16	触头反力 Counterforce of Contact at Full Stroke	N	210±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	2.1
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)

MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

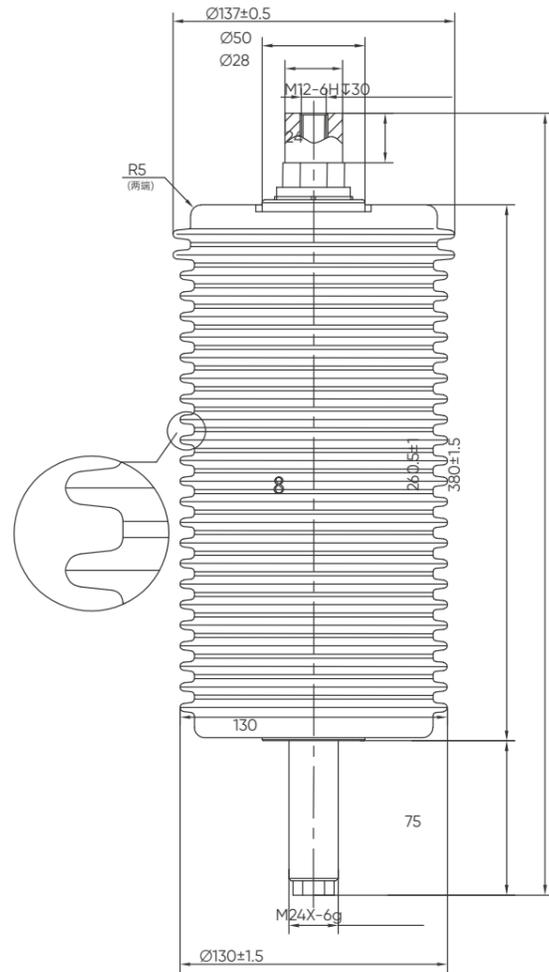
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	18±1
2	平均分闸速度 Average Opening Speed	m/s	1.7±0.2
3	平均合闸速度 Average Closing Speed	m/s	1.3±0.2

★ 在变压器油中或等效绝缘介质中
Within Transformer Oil or Equivalent Isolation Medium.
● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
- 真空灭弧室导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-40.5/1250-25R | 704AR



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	40.5
2	额定电流 Rated Current(Ir)	A	1250
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	95 ★
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	185 ★
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	25
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	63
8	额定短路关合电流 Rated Short-circuit Making Current	kA	63
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	25
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	30
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	140±50
16	触头反力 Counterforce of Contact at Full Stroke	N	210±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	2.1
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

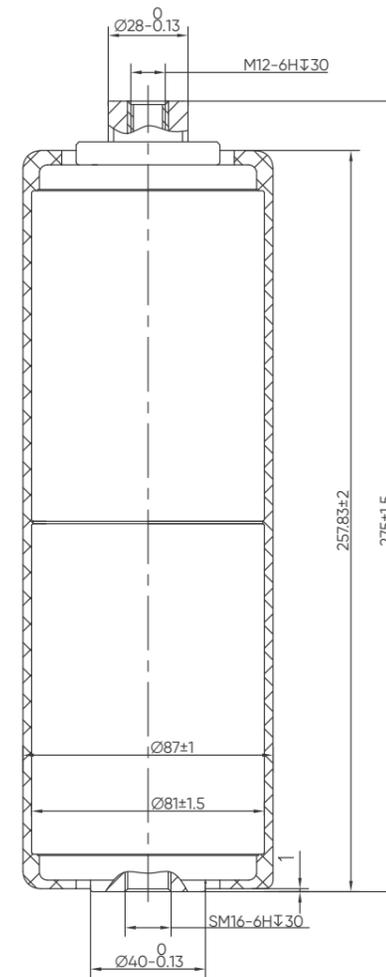
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	18±1
2	平均分闸速度 Average Opening Speed	m/s	1.7±0.2
3	平均合闸速度 Average Closing Speed	m/s	1.3±0.2

★ 在变压器油中或等效绝缘介质中
Within Transformer Oil or Equivalent Isolation Medium.
● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
- 真空灭弧室导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-40.5/1250-25CR | 707CR



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	40.5
2	额定电流 Rated Current(Ir)	A	1250
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	95 ★
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	185 ★
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	25
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	63
8	额定短路关合电流 Rated Short-circuit Making Current	kA	63
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	25
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	30
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	210±50
16	触头反力 Counterforce of Contact at Full Stroke	N	280±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	1
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

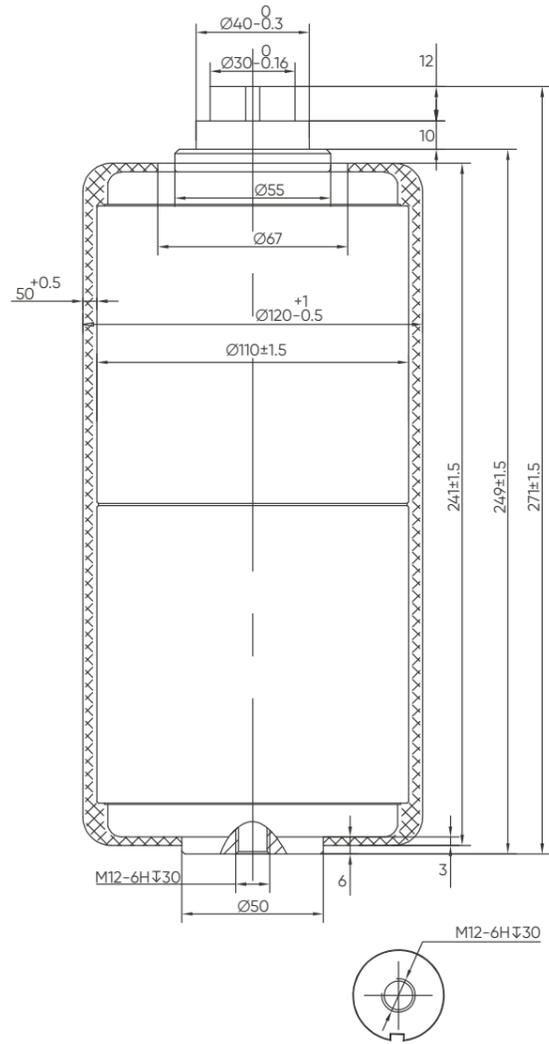
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	18±1
2	平均分闸速度 Average Opening Speed	m/s	1.4±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.8±0.2

★ 在变压器油中或等效绝缘介质中
Within Transformer Oil or Equivalent Isolation Medium.
● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
- 真空灭弧室导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-40.5/1250-31.5R | 707AR



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	40.5
2	额定电流 Rated Current(Ir)	A	1250
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	95 ★
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	185 ★
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	31.5
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	80
8	额定短路关合电流 Rated Short-circuit Making Current	kA	80
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	31.5
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	30
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	140±50
16	触头反力 Counterforce of Contact at Full Stroke	N	210±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	2.1
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

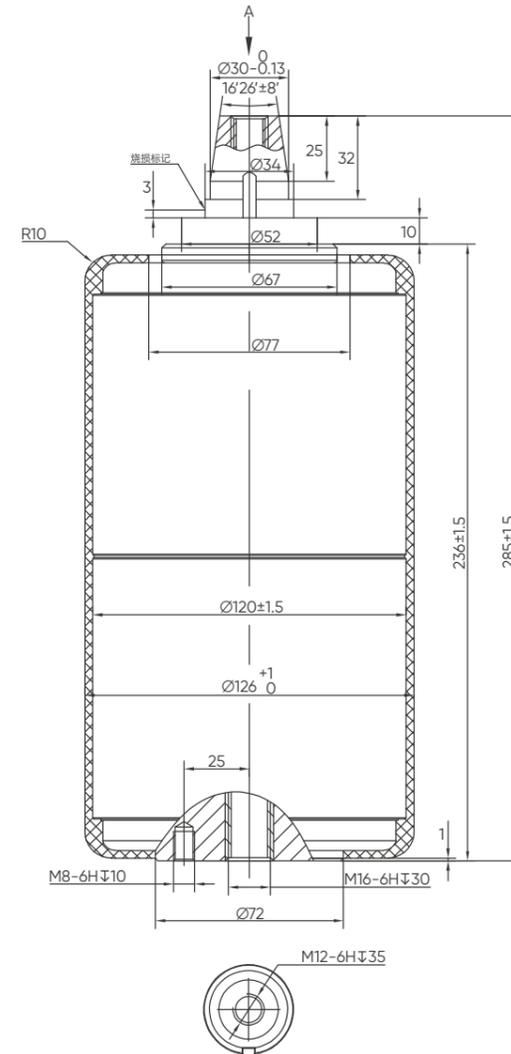
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	18±1
2	平均分闸速度 Average Opening Speed	m/s	1.7±0.2
3	平均合闸速度 Average Closing Speed	m/s	1.3±0.2

★ 在变压器油中或等效绝缘介质中
Within Transformer Oil or Equivalent Isolation Medium.
● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
- 真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

TD-40.5/2500-31.5AR | 703AR



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	40.5
2	额定电流 Rated Current(Ir)	A	2500
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	95 ★
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	185 ★
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	25
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	63
8	额定短路关合电流 Rated Short-circuit Making Current	kA	63
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	25
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short Circuit Breaking Current	time	30
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	Operation/h	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	Operation/h	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	200±50
16	触头反力 Counterforce of Contact at Full Stroke	N	280±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	2.1
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

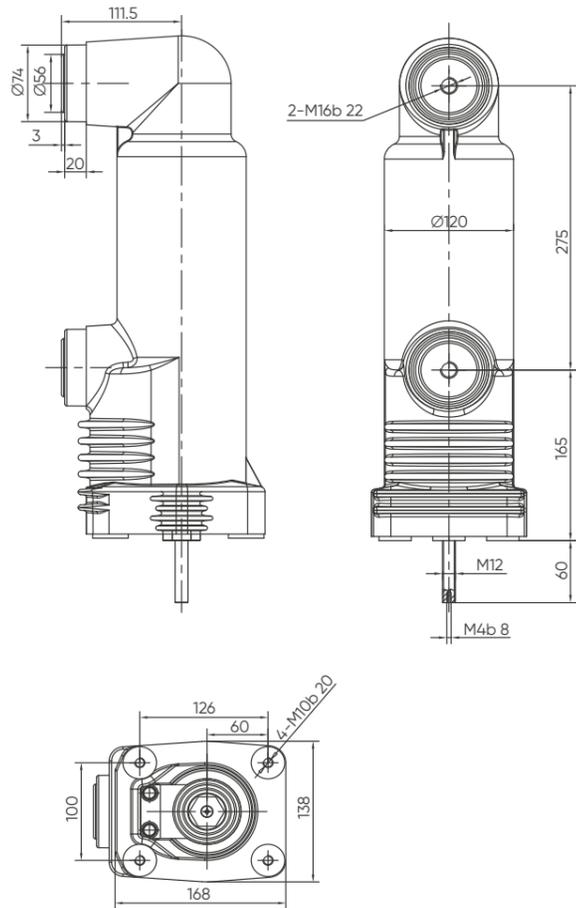
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	18±1
2	平均分闸速度 Average Opening Speed	m/s	1.0±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.6±0.2

★ 在变压器油中或等效绝缘介质中
Within Transformer Oil or Equivalent Isolation Medium.
● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB1984-2014;
- 真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

EP-12/630-25
EP-12/1250-25
EP-12/1250-31.5
EP-12/1600-31.5



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	630/1250/1600
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	48
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	85
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	25/31.5
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	63/80
8	额定短路关合电流 Rated Short-circuit Making Current	kA	63/80
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	25/31.5
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short-circuit Breaking Current	Operation	30
12	额定单个电容器组开断电流	A	630 ●
13	额定背对背电容器组开断电流	A	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	180±50
16	触头反力 Counterforce of Contact at Full Stroke	N	210±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/ Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	1
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO
23	局部放电限定值 Local Discharge Linmit Value		≤5

配用的真空开关设备的机械特性参数 (建议值)

MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Cledarance Between Ioen Contacts	mm	9±1
2	平均分闸速度 Average Opening Speed	m/s	1.1±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.6±0.2
4	额定超行程 Rated Over-travel	mm	3.5±0.5

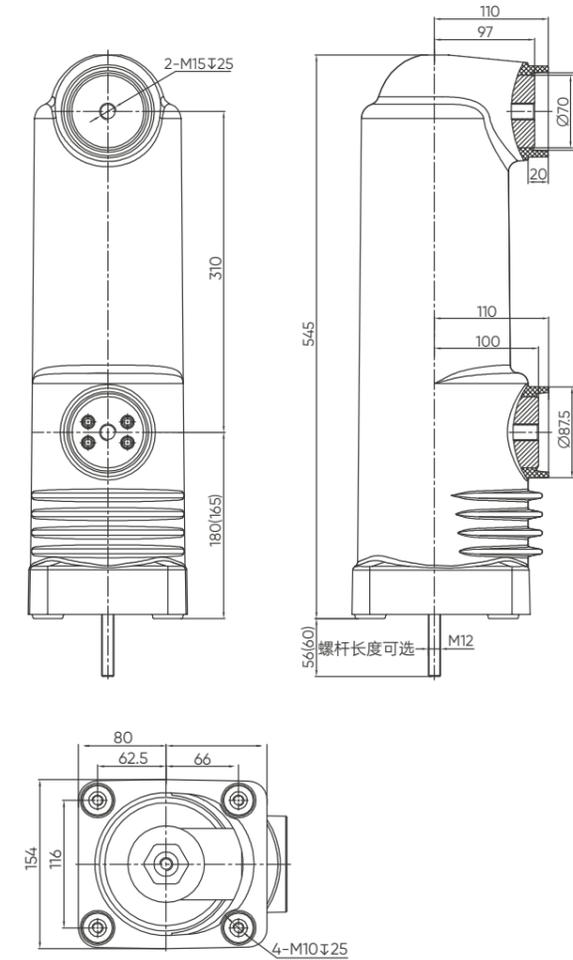
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
4	额定超行程下限时的触头压力 Contact Pressure at Min, Rated Over-travel	N	2500±200 3100±200
5	额定合闸弹跳时间 Contance Pressure at contance touch point	ms	≤2
6	分闸触头反弹幅值 Overtravel during Opening	mm	≤2
7	触头合闸和分闸不同期性 Out of Simultaneity of Closing and Opening	ms	<1

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB/T1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB/T1984-2014;
- 真空灭弧室导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

EP-12/1600-31.5
EP-12/2000-31.5



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	1600/2000
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	48
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	85
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	31.5
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	80
8	额定短路关合电流 Rated Short-circuit Making Current	kA	80
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	31.5
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short-circuit Breaking Current	Operation	30
12	额定单个电容器组开断电流	A	630 ●
13	额定背对背电容器组开断电流	A	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	180±50
16	触头反力 Counterforce of Contact at Full Stroke	N	210±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/ Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	1
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO
23	局部放电限定值 Local Discharge Linmit Value		≤5

配用的真空开关设备的机械特性参数 (建议值)

MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Cledarance Between Ioen Contacts	mm	9±1
2	平均分闸速度 Average Opening Speed	m/s	1.1±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.6±0.2
4	额定超行程 Rated Over-travel	mm	3.5±0.5

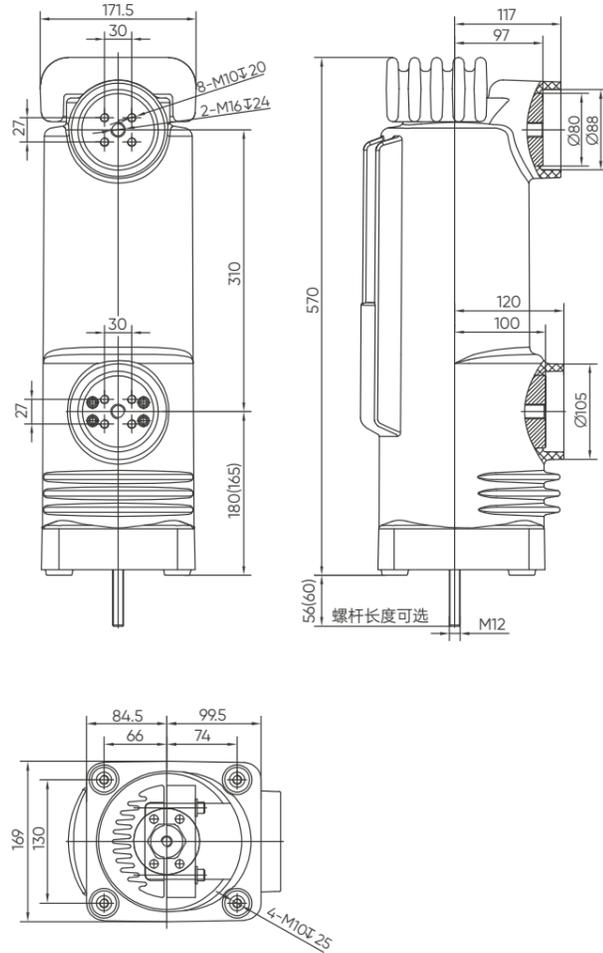
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
4	额定超行程下限时时的触头压力 Contact Pressure at Min, Rated Over-travel	N	3100±200
5	额定合闸弹跳时间 Contance Pressure at contance touch point	ms	≤2
6	分闸触头反弹幅值 Overtravel during Opening	mm	≤2
7	触头合闸和分闸不同期性 Out of Simultaneity of Closing and Opening	ms	<1

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB/T1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB/T1984-2014;
- 真空灭弧室导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

EP-12/3150-40
EP-12/4000-40



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	3150/4000 ★
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	48
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	85
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	40
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	100
8	额定短路关合电流 Rated Short-circuit Making Current	kA	100
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	40
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short-circuit Breaking Current	Operation	30
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	A	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	A	400 ●
14	机械寿命 Mechanical Endurance	Operation	30000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	210±50
16	触头反力 Counterforce of Contact at Full Stroke	N	300±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	3
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence	O-0.3s-CO-180s-CO	
23	局部放电限值 Local Discharge Linmit Value		≤5

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	9±1
2	平均分闸速度 Average Opening Speed	m/s	1.1±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.6±0.2
4	额定超行程 Rated Over-travel	mm	3.5±0.5

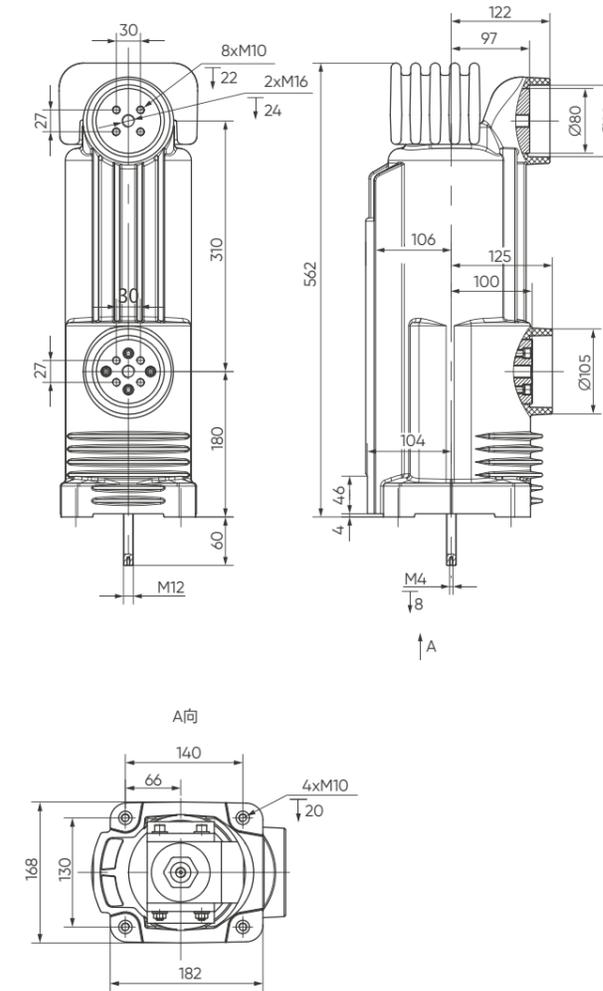
● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

★ 强制风冷
Forced air cooling.

注(Note):

- 产品符合或超过IEC62271-100以及GB/T1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB/T1984-2014;
- 真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

EP-12/4000-40
EP-12/4000-50



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12
2	额定电流 Rated Current(Ir)	A	4000 ★
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	48
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	85
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	40/50
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	100/126
8	额定短路关合电流 Rated Short-circuit Making Current	kA	100/126
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	40/50
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short-circuit Breaking Current	Operation	30
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	A	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	A	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	210±50
16	触头反力 Counterforce of Contact at Full Stroke	N	280±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	1
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence	O-0.3s-CO-180s-CO	
23	局部放电限值 Local Discharge Linmit Value		≤5

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	9±1
2	平均分闸速度 Average Opening Speed	m/s	1.1±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.6±0.2
4	额定超行程 Rated Over-travel	mm	3.5±0.5

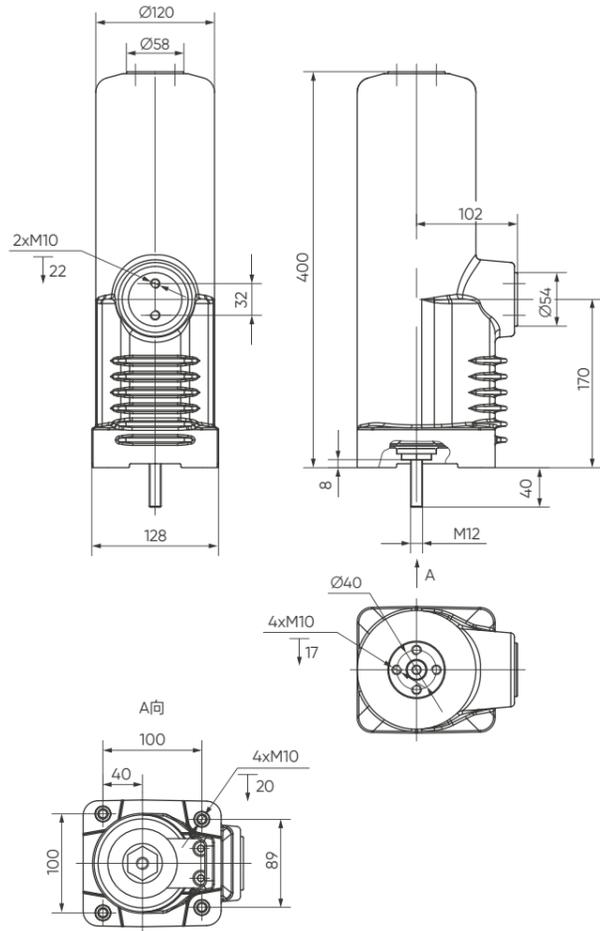
● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

★ 强制风冷
Forced air cooling.

注(Note):

- 产品符合或超过IEC62271-100以及GB/T1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB/T1984-2014;
- 真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

EP-12/1250-25
EP-12/1250-31.5
EP-24/630-25 绝缘介质中
EP-24/1250-31.5 绝缘介质中



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12/24
2	额定电流 Rated Current(Ir)	A	1250/630/1250
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	48/65
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	85/95
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	25/31.5/25/31.5
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	63/80/63/80
8	额定短路关合电流 Rated Short-circuit Making Current	kA	63/80/63/80
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	25/31.5/25/31.5
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short-circuit Breaking Current	Operation	30
12	额定单个电容器组开断电流	A	630 ●
13	额定背对背电容器组开断电流	A	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	210±50
16	触头反力 Counterforce of Contact at Full Stroke	N	280±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	1
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO
23	局部放电限值 Local Discharge Linmit Value		≤5

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	9±1 11±1
2	平均分闸速度 Average Opening Speed	m/s	1.1±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.6±0.2
4	额定超行程 Rated Over-travel	mm	3.5±0.5

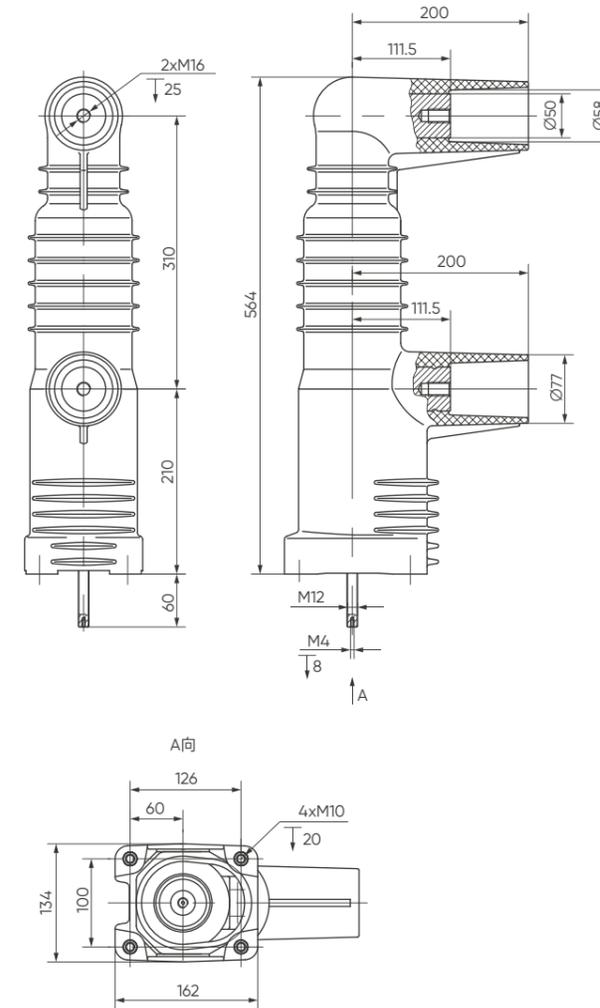
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
4	额定超行程下限时的触头压力 Contact Pressure at Min, Rated Over-travel	N	2500±200 3150±200
5	额定合闸弹跳时间 Contace Pressure at contace touch point	ms	≤2
6	分闸触头反弹幅值 Overtravel during Opening	mm	≤2
7	触头合闸和分闸不同期性 Out of Simultaneity of Closing and Opening	ms	<1

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB/T1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB/T1984-2014;
- 真空灭弧室导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

EP-24/630-25
EP-24/1250-25
EP-24/1250-31.5



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	24
2	额定电流 Rated Current(Ir)	A	630/1250/1250
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	65
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	125
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	25/31.5
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	63/80
8	额定短路关合电流 Rated Short-circuit Making Current	kA	63/80
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	25/31.5
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short-circuit Breaking Current	Operation	30
12	额定单个电容器组开断电流	A	630 ●
13	额定背对背电容器组开断电流	A	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	210±50
16	触头反力 Counterforce of Contact at Full Stroke	N	280±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	1
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO
23	局部放电限值 Local Discharge Linmit Value		≤3

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Cledarance Between Ioen Contacts	mm	11±1
2	平均分闸速度 Average Opening Speed	m/s	1.3±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.75±0.2
4	额定超行程 Rated Over-travel	mm	3.5±0.5

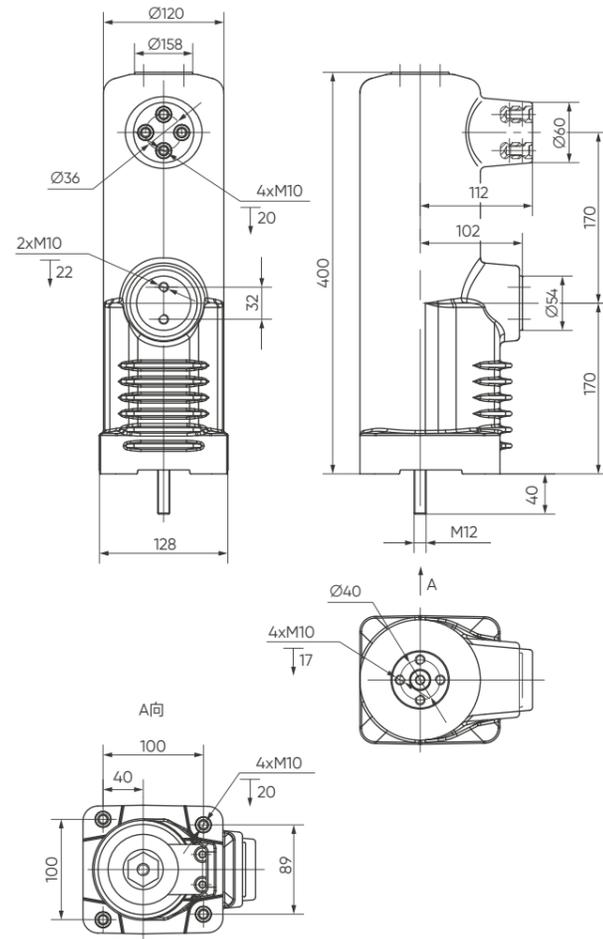
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
4	额定超行程下限时的触头压力 Contact Pressure at Min, Rated Over-travel	N	2500±200 3150±200
5	额定合闸弹跳时间 Contace Pressure at contace touch point	ms	≤2
6	分闸触头反弹幅值 Overtravel during Opening	mm	≤2
7	触头合闸和分闸不同期性 Out of Simultaneity of Closing and Opening	ms	<1

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB/T1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB/T1984-2014;
- 真空灭弧室导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

EP-12/1250-25
EP-12/1250-31.5
EP-24/630-25 绝缘介质中
EP-24/1250-31.5 绝缘介质中



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	12/24
2	额定电流 Rated Current(Ir)	A	1250/630/1250
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	48/65
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	85/95
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	25/31.5/25/31.5
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	63/80/63/80
8	额定短路关合电流 Rated Short-circuit Making Current	kA	63/80/63/80
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	25/31.5/25/31.5
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short-circuit Breaking Current	Operation	30
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	A	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	A	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	210±50
16	触头反力 Counterforce of Contact at Full Stroke	N	280±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	1
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO
23	局部放电限定值 Local Discharge Linmit Value		≤5

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	9±1 11±1
2	平均分闸速度 Average Opening Speed	m/s	1.1±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.6±0.2
4	额定超行程 Rated Over-travel	mm	3.5±0.5

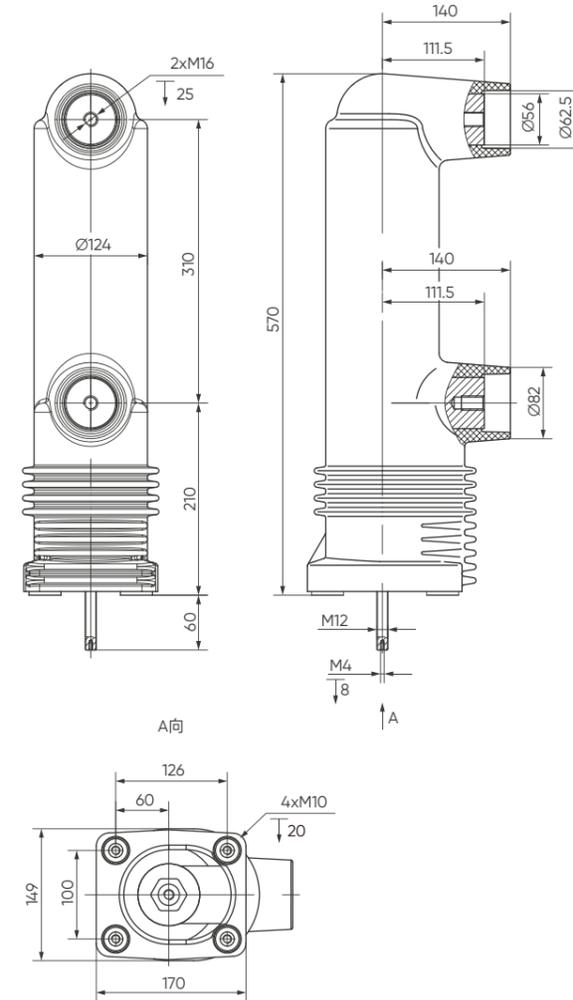
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
4	额定超行程下限时的触头压力 Contact Pressure at Min, Rated Over-travel	N	2500±200 3150±200
5	额定合闸弹跳时间 Contance Pressure at contance touch point	ms	≤2
6	分闸触头反弹幅值 Overtravel during Opening	mm	≤2
7	触头合闸和分闸不同期性 Out of Simultaneity of Closing and Opening	ms	<1

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB/T1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB/T1984-2014;
- 真空灭弧室导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

EP-24/630-25
EP-24/1250-25
EP-24/1250-31.5
EP-24/1600-31.5



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	24
2	额定电流 Rated Current(Ir)	A	630/1250/1250/1600
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	65
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	125
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	25/31.5
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	63/80
8	额定短路关合电流 Rated Short-circuit Making Current	kA	63/80
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	25/31.5
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short-circuit Breaking Current	Operation	30
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	A	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	A	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	210±50
16	触头反力 Counterforce of Contact at Full Stroke	N	280±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	1
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO
23	局部放电限定值 Local Discharge Linmit Value		≤3

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Cledarance Between Ioen Contacts	mm	11±1
2	平均分闸速度 Average Opening Speed	m/s	1.3±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.75±0.2
4	额定超行程 Rated Over-travel	mm	3.5±0.5

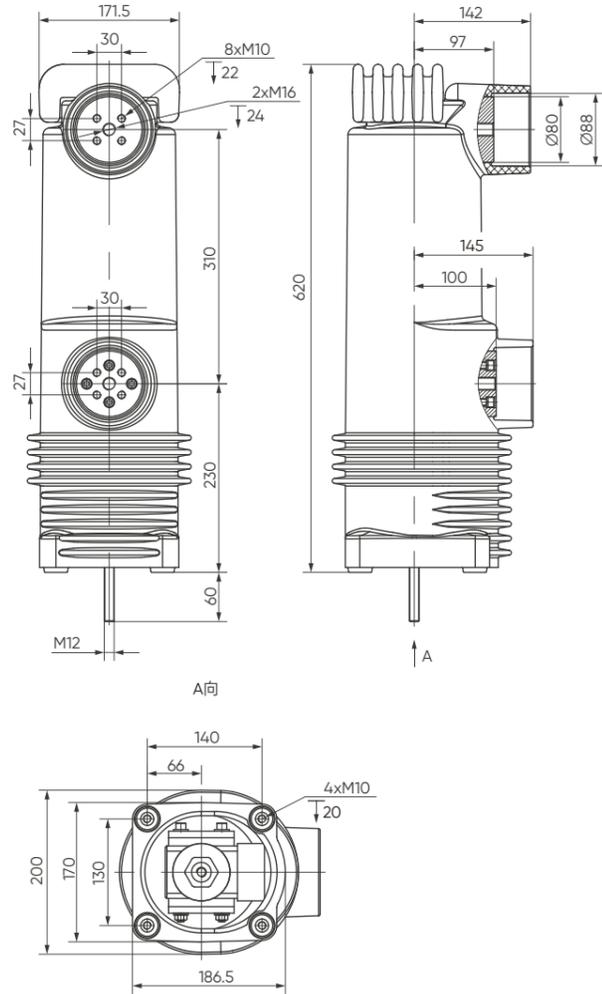
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
4	额定超行程下限时的触头压力 Contact Pressure at Min, Rated Over-travel	N	2500±200 3150±200
5	额定合闸弹跳时间 Contance Pressure at contance touch point	ms	≤2
6	分闸触头反弹幅值 Overtravel during Opening	mm	≤2
7	触头合闸和分闸不同期性 Out of Simultaneity of Closing and Opening	ms	<1

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB/T1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB/T1984-2014;
- 真空灭弧室导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

EP-24/2000-31.5
EP-24/2500-31.5
EP-24/3150-31.5



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	24
2	额定电流 Rated Current(Ir)	A	2000/2500/3150
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	65
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	125
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	31.5
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	80
8	额定短路关合电流 Rated Short-circuit Making Current	kA	80
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	31.5
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short-circuit Breaking Current	Operation	30
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	A	630
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	A	400
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	210±50
16	触头反力 Counterforce of Contact at Full Stroke	N	280±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	1
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO
23	局部放电限值 Local Discharge Linmit Value		≤3

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Cledarance Between Ioen Contacts	mm	11±1
2	平均分闸速度 Average Opening Speed	m/s	1.3±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.75±0.2
4	额定超行程 Rated Over-travel	mm	3.5±0.5

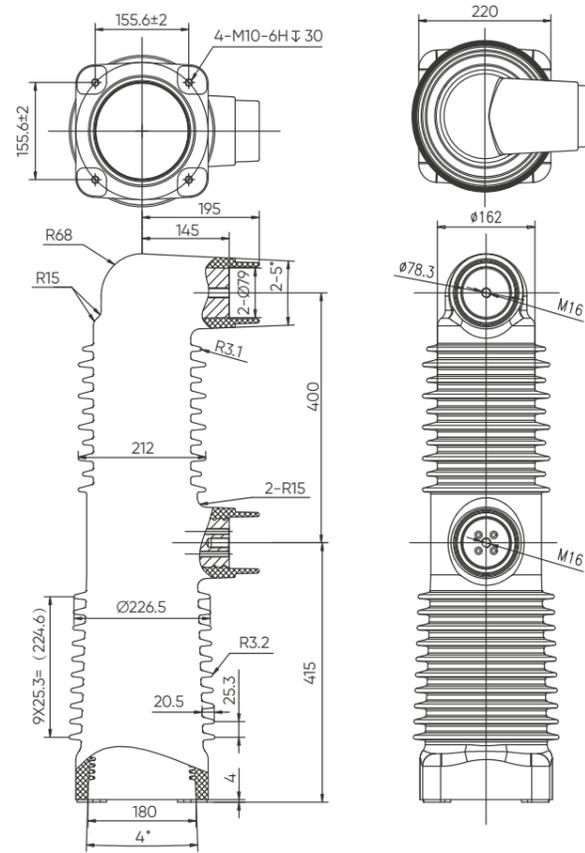
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
4	额定超行程下限时的触头压力 Contact Pressure at Min, Rated Over-travel	N	3150±200
5	额定合闸弹跳时间 Contace Pressure at contace touch point	ms	≤2
6	分闸触头反弹幅值 Overtravel during Opening	mm	≤2
7	触头合闸和分闸不同期性 Out of Simultaneity of Closing and Opening	ms	<1

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB/T1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB/T1984-2014;
- 真空灭弧室导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

EP-40.5/630-31.5
EP-40.5/1250-31.5
EP-40.5/1600-31.5



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	40.5
2	额定电流 Rated Current(Ir)	A	630/1250/1600
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	95
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	185
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	31.5/25
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	80/63
8	额定短路关合电流 Rated Short-circuit Making Current	kA	80/63
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	31.5/25
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short-circuit Breaking Current	Operation	30
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	A	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	A	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	180±50
16	触头反力 Counterforce of Contact at Full Stroke	N	210±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	2
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO
23	局部放电限值 Local Discharge Linmit Value		≤5

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Cledarance Between Ioen Contacts	mm	18±1
2	平均分闸速度 Average Opening Speed	m/s	1.1±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.6±0.2
4	额定超行程 Rated Over-travel	mm	3.5±0.5

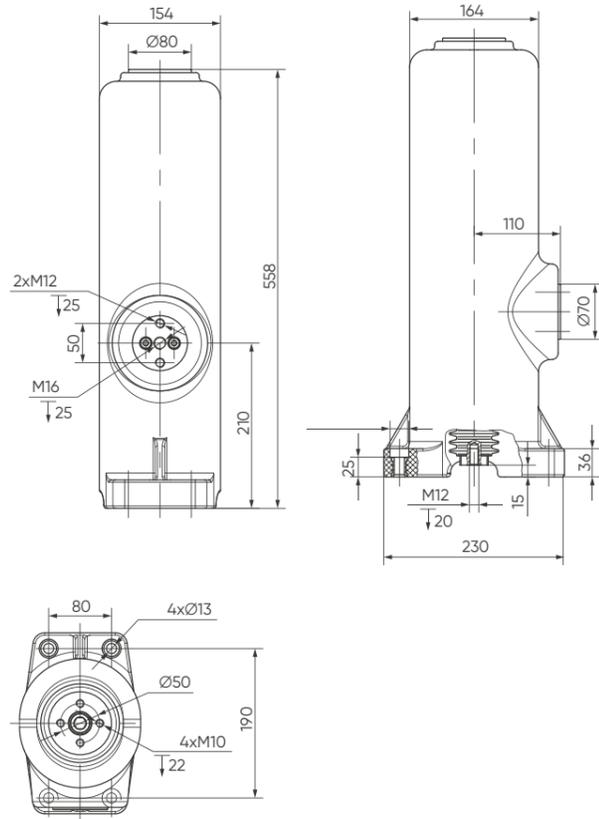
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
4	额定超行程下限时的触头压力 Contact Pressure at Min, Rated Over-travel	N	3150±200 2500±200
5	额定合闸弹跳时间 Contace Pressure at contace touch point	ms	≤2
6	分闸触头反弹幅值 Overtravel during Opening	mm	≤2
7	触头合闸和分闸不同期性 Out of Simultaneity of Closing and Opening	ms	<1

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB/T1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB/T1984-2014;
- 真空灭弧室导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

EP-40.5/1250-25
EP-40.5/1250-31.5
EP-40.5/1600-25 绝缘介质中
EP-40.5/1600-31.5 绝缘介质中



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	40.5
2	额定电流 Rated Current(Ir)	A	1250/1600
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	95
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	185
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	25/31.5/25/31.5
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	63/80/63/80
8	额定短路关合电流 Rated Short-circuit Making Current	kA	63/80/63/80
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	25/31.5/25/31.5
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short-circuit Breaking Current	Operation	30
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	A	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	A	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	210±50
16	触头反力 Counterforce of Contact at Full Stroke	N	280±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	1
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence	O-0.3s-CO-180s-CO	
23	局部放电限定值 Local Discharge Linmit Value		≤3

配用的真空开关设备的机械特性参数 (建议值)

MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

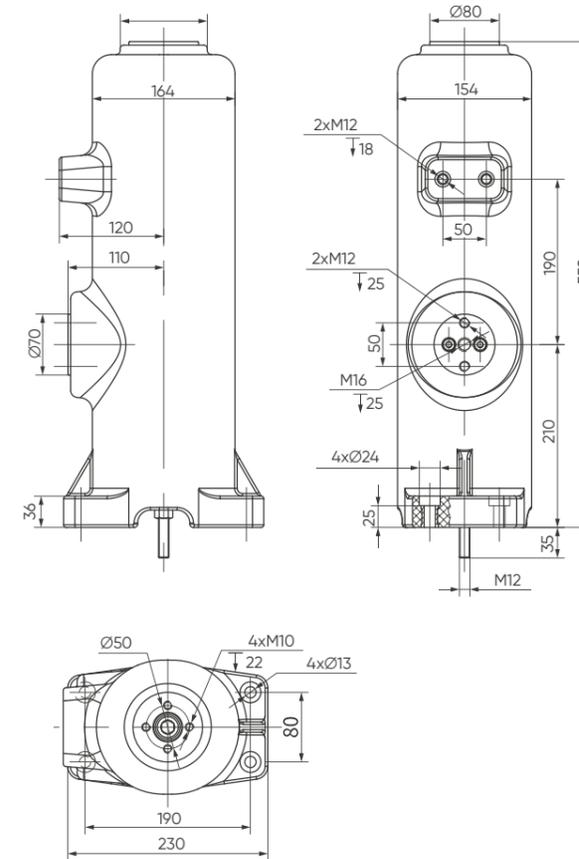
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]	序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	11±1	4	额定超行程下限时触头压力 Contact Pressure at Min. Rated Over-travel	N	2500±200 3150±200
2	平均分闸速度 Average Opening Speed	m/s	1.3±0.2	5	额定合闸弹跳时间 Contact Pressure at contact touch point	ms	≤2
3	平均合闸速度 Average Closing Speed	m/s	0.75±0.2	6	分闸触头反弹幅值 Overtravel during Opening	mm	≤2
4	额定超行程 Rated Over-travel	mm	3.5±0.5	7	触头合闸和分闸不同期性 Out of Simultaneity of Closing and Opening	ms	<1

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB/T1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB/T1984-2014;
- 真空灭弧室导电杆上能承受的扭力矩 ≤ 45N.m, 组装时应采取措施防止导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicoould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

EP-40.5/1250-25
EP-40.5/1250-31.5
EP-40.5/1600-25 绝缘介质中
EP-40.5/1600-31.5 绝缘介质中



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	40.5
2	额定电流 Rated Current(Ir)	A	1250/1600
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	95
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	185
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	25/31.5/25/31.5
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	63/80/63/80
8	额定短路关合电流 Rated Short-circuit Making Current	kA	63/80/63/80
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	25/31.5/25/31.5
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short-circuit Breaking Current	Operation	30
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	A	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	A	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	210±50
16	触头反力 Counterforce of Contact at Full Stroke	N	280±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	1
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence	O-0.3s-CO-180s-CO	
23	局部放电限定值 Local Discharge Linmit Value		≤3

配用的真空开关设备的机械特性参数 (建议值)

MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

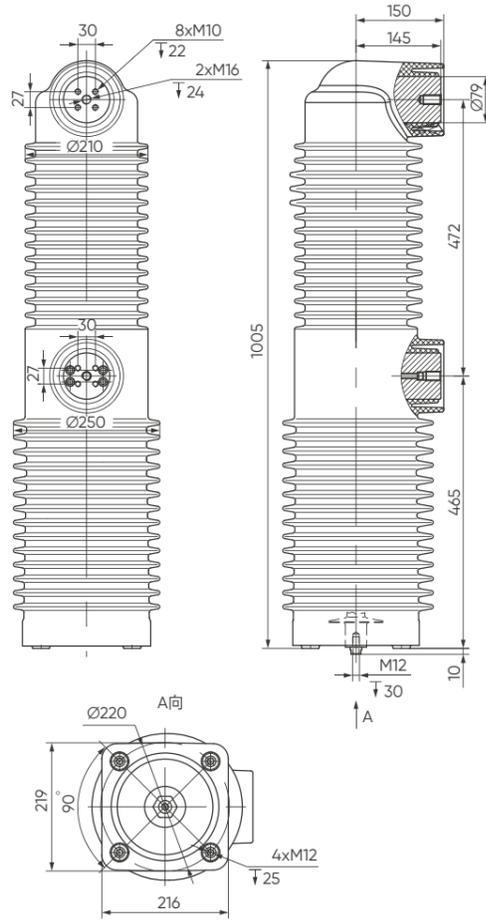
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]	序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Cledarance Between Ioen Contacts	mm	11±1	4	额定超行程下限时触头压力 Contact Pressure at Min. Rated Over-travel	N	2500±200 3150±200
2	平均分闸速度 Average Opening Speed	m/s	1.3±0.2	5	额定合闸弹跳时间 Contact Pressure at contact touch point	ms	≤2
3	平均合闸速度 Average Closing Speed	m/s	0.75±0.2	6	分闸触头反弹幅值 Overtravel during Opening	mm	≤2
4	额定超行程 Rated Over-travel	mm	3.5±0.5	7	触头合闸和分闸不同期性 Out of Simultaneity of Closing and Opening	ms	<1

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB/T1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB/T1984-2014;
- 真空灭弧室导电杆上能承受的扭力矩 ≤ 45N.m, 组装时应采取措施防止导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicoould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

EP-40.5/1250-25
 EP-40.5/1250-31.5
 EP-40.5/1600-31.5
 EP-40.5/2000-31.5
 EP-40.5/2500-31.5
 EP-40.5/3150-31.5



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	40.5
2	额定电流 Rated Current(Ir)	A	1250/1600/2500/3150 ★
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	95
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	185
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	25/31.5
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	63/80
8	额定短路关合电流 Rated Short-circuit Making Current	kA	63/80
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	25/31.5
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short-circuit Breaking Current	Operation	30
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	A	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	A	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	210±50
16	触头反力 Counterforce of Contact at Full Stroke	N	280±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	1
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO
23	局部放电限定值 Local Discharge Linmit Value		≤3

配用的真空开关设备的机械特性参数 (建议值)

MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	11±1
2	平均分闸速度 Average Opening Speed	m/s	1.3±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.75±0.2
4	额定超行程 Rated Over-travel	mm	3.5±0.5

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
4	额定超行程下限时的触头压力 Contact Pressure at Min, Rated Over-travel	N	2500±200 3150±200
5	额定合闸弹跳时间 Contance Pressure at contance touch point	ms	≤2
6	分闸触头反弹幅值 Overtravel during Opening	mm	≤2
7	触头合闸和分闸不同期性 Out of Simultaneity of Closing and Opening	ms	<1

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

★ 强制风冷
Forced air cooling.

注(Note):

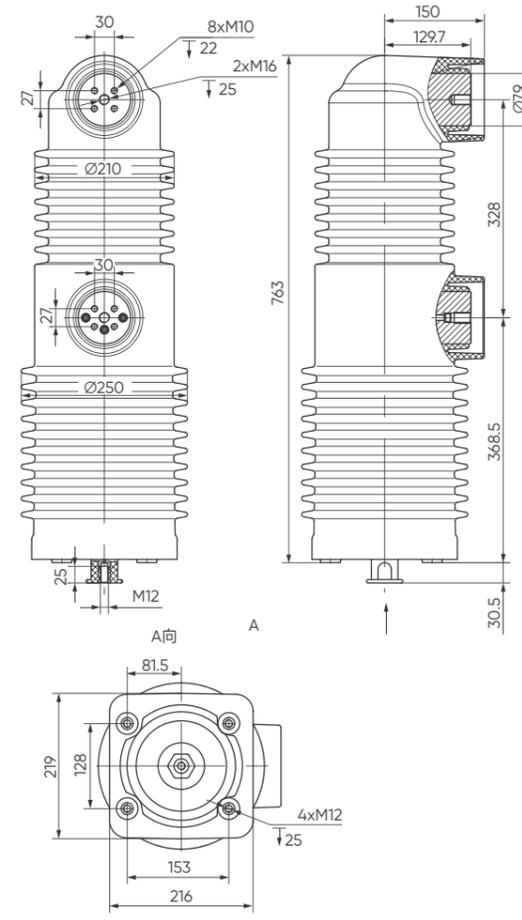
1.产品符合或超过IEC62271-100以及GB/T1984-2014中E2级的要求;

1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB/T1984-2014;

2.真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。

2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

EP-40.5/1250-25
 EP-40.5/1250-31.5
 EP-40.5/1600-31.5
 EP-40.5/2000-31.5
 EP-40.5/2500-31.5
 EP-40.5/3150-31.5



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	40.5
2	额定电流 Rated Current(Ir)	A	1250/1600/2000/2500/3150 ★
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	95
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	185
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	25/31.5
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	63/80
8	额定短路关合电流 Rated Short-circuit Making Current	kA	63/80
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	25/31.5
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short-circuit Breaking Current	Operation	30
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	A	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	A	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	210±50
16	触头反力 Counterforce of Contact at Full Stroke	N	280±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	1
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO
23	局部放电限定值 Local Discharge Linmit Value		≤3

配用的真空开关设备的机械特性参数 (建议值)

MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	11±1
2	平均分闸速度 Average Opening Speed	m/s	1.3±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.75±0.2
4	额定超行程 Rated Over-travel	mm	3.5±0.5

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
4	额定超行程下限时的触头压力 Contact Pressure at Min, Rated Over-travel	N	2500±200 3150±200
5	额定合闸弹跳时间 Contance Pressure at contance touch point	ms	≤2
6	分闸触头反弹幅值 Overtravel during Opening	mm	≤2
7	触头合闸和分闸不同期性 Out of Simultaneity of Closing and Opening	ms	<1

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

★ 强制风冷
Forced air cooling.

注(Note):

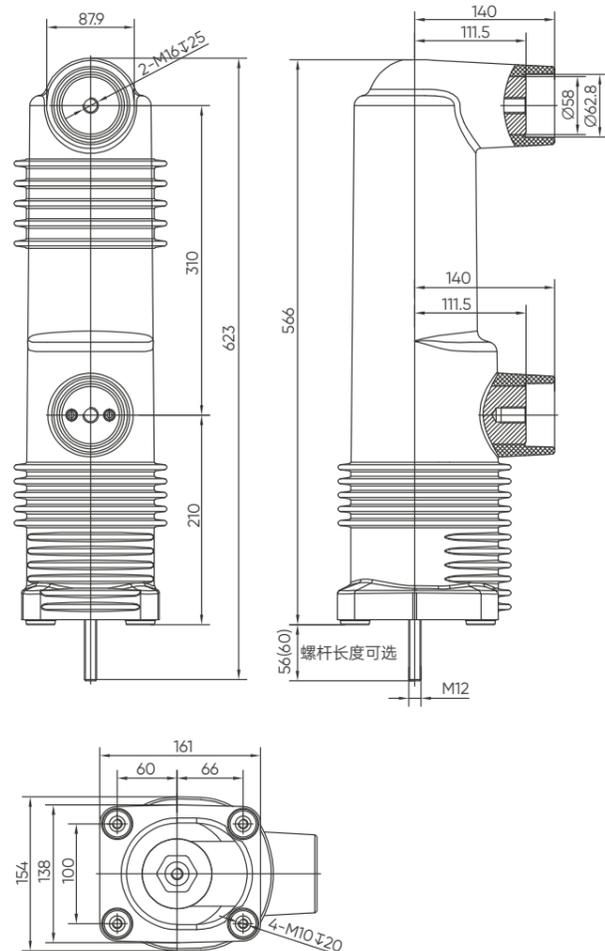
1.产品符合或超过IEC62271-100以及GB/T1984-2014中E2级的要求;

1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB/T1984-2014;

2.真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。

2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

EP-24/630-25
EP-24/1250-25
EP-24/1600-25



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	24
2	额定电流 Rated Current(Ir)	A	630/1250/1600
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	65
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	125
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	25/25/25
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	63/63/63
8	额定短路关合电流 Rated Short-circuit Making Current	kA	63/63/63
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	25/25/25
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short-circuit Breaking Current	Operation	30
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	A	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	A	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	210±50
16	触头反力 Counterforce of Contact at Full Stroke	N	280±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	1
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO
23	局部放电限定值 Local Discharge Linmit Value		≤3

配用的真空开关设备的机械特性参数 (建议值)

MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Cledarance Between Ioen Contacts	mm	11±1
2	平均分闸速度 Average Opening Speed	m/s	1.3±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.75±0.2
4	额定超行程 Rated Over-travel	mm	3.5±0.5

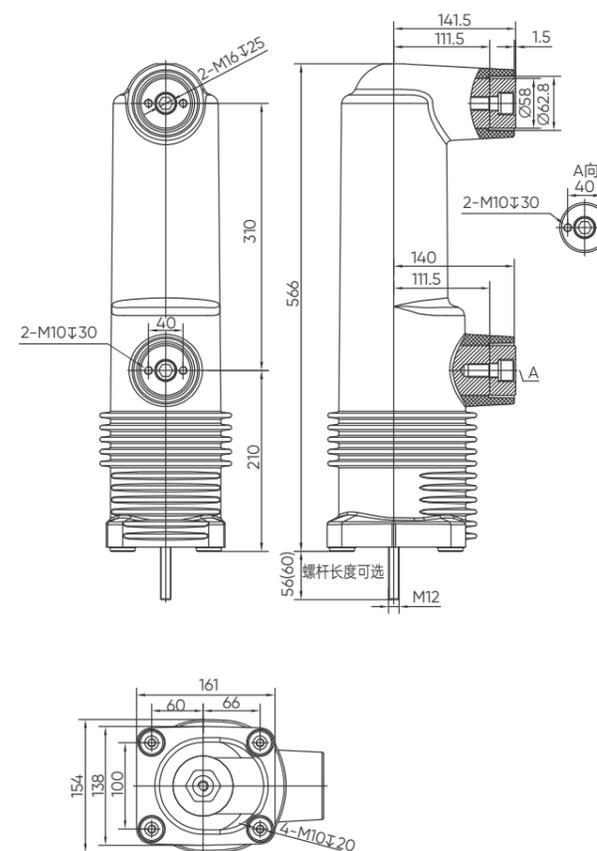
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
4	额定超行程下限时触头压力 Contact Pressure at Min, Rated Over-travel	N	2500±200
5	额定合闸弹跳时间 Contace Pressure at contace touch point	ms	≤2
6	分闸触头反弹幅值 Overtravel during Opening	mm	≤2
7	触头合闸和分闸不同期性 Out of Simultaneity of Closing and Opening	ms	<1

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB/T1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB/T1984-2014;
- 真空灭弧室动导电杆上能承受的扭力矩 ≤ 45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

EP-24/630-25
EP-24/1250-25
EP-24/1600-25



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	24
2	额定电流 Rated Current(Ir)	A	630/1250/1600
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	65
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	125
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	25/25/25
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	63/63/63
8	额定短路关合电流 Rated Short-circuit Making Current	kA	63/63/63
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	25/25/25
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short-circuit Breaking Current	Operation	30
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	A	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	A	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	210±50
16	触头反力 Counterforce of Contact at Full Stroke	N	280±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	1
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO
23	局部放电限定值 Local Discharge Linmit Value		≤3

配用的真空开关设备的机械特性参数 (建议值)

MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Cledarance Between Ioen Contacts	mm	11±1
2	平均分闸速度 Average Opening Speed	m/s	1.3±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.75±0.2
4	额定超行程 Rated Over-travel	mm	3.5±0.5

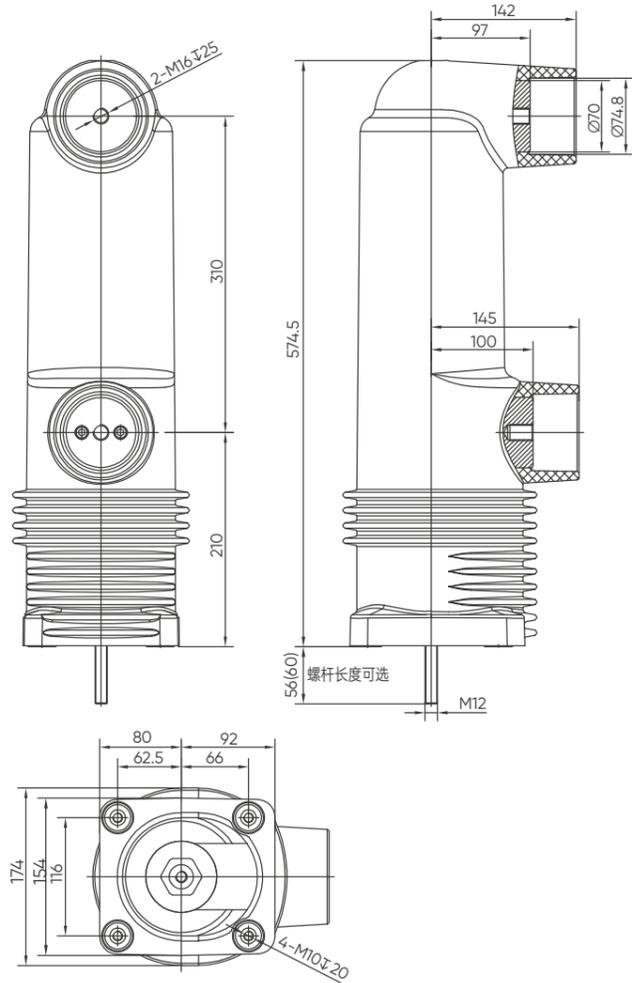
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
4	额定超行程下限时触头压力 Contact Pressure at Min, Rated Over-travel	N	2500±200
5	额定合闸弹跳时间 Contace Pressure at contace touch point	ms	≤2
6	分闸触头反弹幅值 Overtravel during Opening	mm	≤2
7	触头合闸和分闸不同期性 Out of Simultaneity of Closing and Opening	ms	<1

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB/T1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB/T1984-2014;
- 真空灭弧室动导电杆上能承受的扭力矩 ≤ 45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

EP-24/1250-31.5
EP-24/1600-31.5
EP-24/2000-31.5



序号	参数项目[DATA]	单位[UNIT]	参数值[VALUE]
1	额定电压 Rated Voltage	kV	24
2	额定电流 Rated Current(Ir)	A	1250/1600/2000
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	65
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	125
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	31.5/31.5/31.5
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	80/80/80
8	额定短路关合电流 Rated Short-circuit Making Current	kA	80/80/80
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	31.5/31.5/31.5
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short-circuit Breaking Current	Operation	30
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	A	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	A	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	210±50
16	触头反力 Counterforce of Contact at Full Stroke	N	280±50
17	额定触头压力下回路电阻 Circuit Resistance at Min,Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	1
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO
23	局部放电限定值 Local Discharge Linmit Value		≤3

配用的真空开关设备的机械特性参数 (建议值)

MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

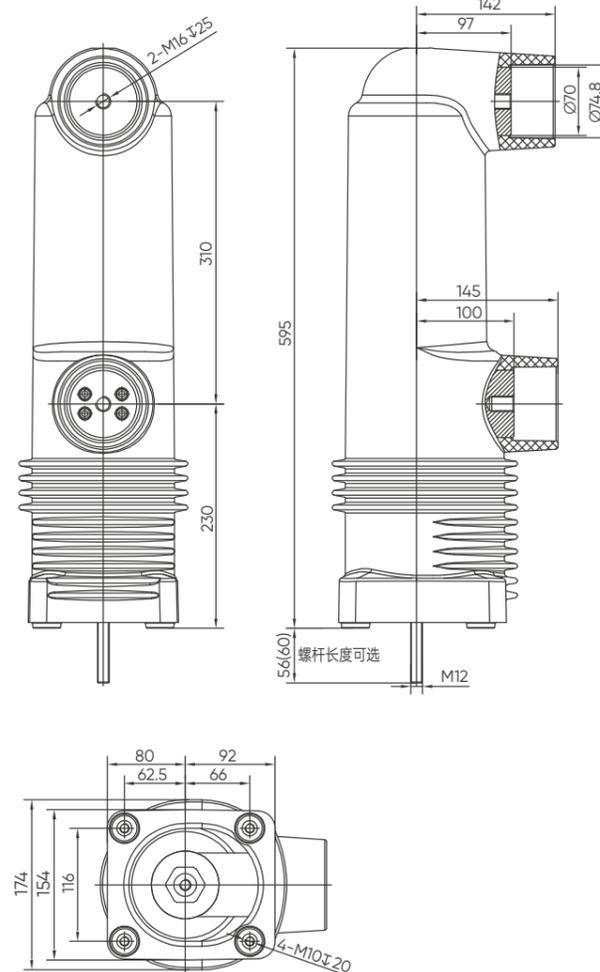
序号	参数项目[DATA]	单位[UNIT]	参数值[VALUE]
1	额定开距 Cledarance Between Ioen Contacts	mm	11±1
2	平均分闸速度 Average Opening Speed	m/s	1.3±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.75±0.2
4	额定超行程 Rated Over-travel	mm	3.5±0.5

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB/T1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB/T1984-2014;
- 真空灭弧室导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

EP-24/1250-31.5
EP-24/1600-31.5
EP-24/2000-31.5



序号	参数项目[DATA]	单位[UNIT]	参数值[VALUE]
1	额定电压 Rated Voltage	kV	24
2	额定电流 Rated Current(Ir)	A	1250/1600/2000
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	65
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	125
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	31.5/31.5/31.5
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	80/80/80
8	额定短路关合电流 Rated Short-circuit Making Current	kA	80/80/80
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	31.5/31.5/31.5
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short-circuit Breaking Current	Operation	30
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	A	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	A	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	210±50
16	触头反力 Counterforce of Contact at Full Stroke	N	280±50
17	额定触头压力下回路电阻 Circuit Resistance at Min,Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	1
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO
23	局部放电限定值 Local Discharge Linmit Value		≤3

配用的真空开关设备的机械特性参数 (建议值)

MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

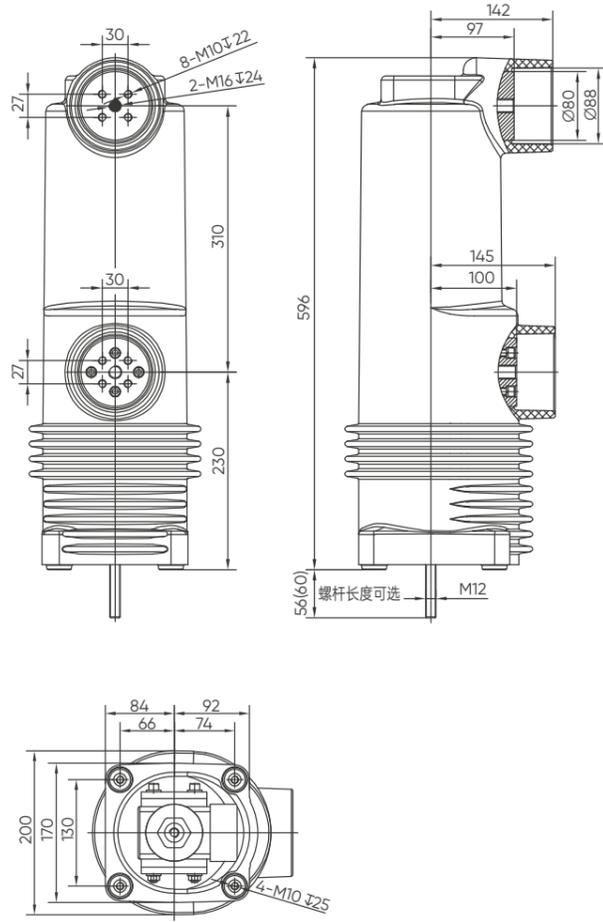
序号	参数项目[DATA]	单位[UNIT]	参数值[VALUE]
1	额定开距 Cledarance Between Ioen Contacts	mm	11±1
2	平均分闸速度 Average Opening Speed	m/s	1.3±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.75±0.2
4	额定超行程 Rated Over-travel	mm	3.5±0.5

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB/T1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB/T1984-2014;
- 真空灭弧室导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

EP-24/1250-40
EP-24/1600-40
EP-24/2000-40



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	24
2	额定电流 Rated Current(Ir)	A	1250/1600/2000
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	65
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	125
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	40/40/40
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	100/100/100
8	额定短路关合电流 Rated Short-circuit Making Current	kA	100/100/100
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	40/40/40
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short-circuit Breaking Current	Operation	30
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	A	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	A	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	210±50
16	触头反力 Counterforce of Contact at Full Stroke	N	280±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/ Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	1
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence	O-0.3s-CO-180s-CO	
23	局部放电限值 Local Discharge Linmit Value		≤3

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

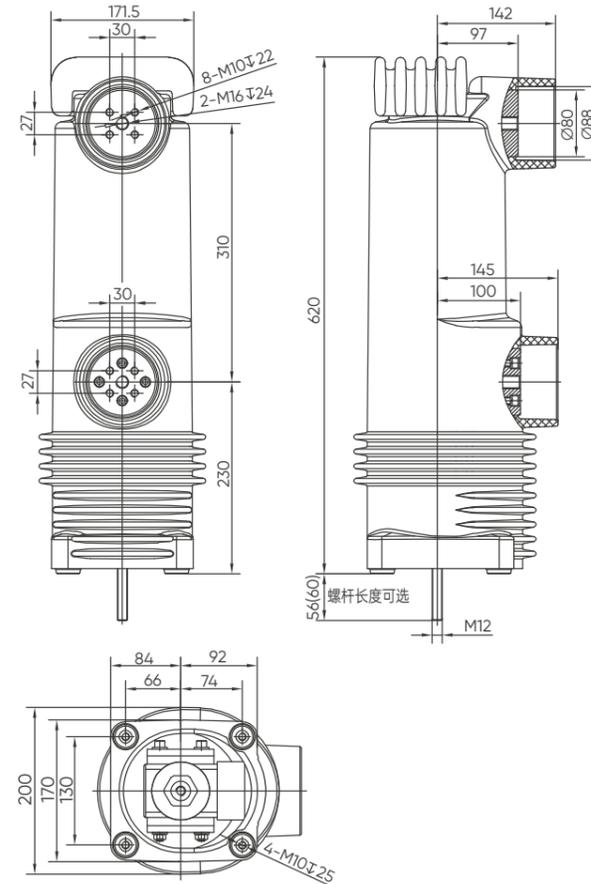
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	11±1
2	平均分闸速度 Average Opening Speed	m/s	1.3±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.75±0.2
4	额定超行程 Rated Over-travel	mm	3.5±0.5

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB/T1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB/T1984-2014;
- 真空灭弧室导电杆上能承受的扭力矩 ≤ 45N.m, 组装时应采取措施防止导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

EP-24/2500-31.5
EP-24/2500-40
EP-24/3150-31.5
EP-24/3150-40
EP-24/4000-31.5
EP-24/4000-40



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	24
2	额定电流 Rated Current(Ir)	A	2500/3150/4000 ★
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	65
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	125
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	31.5/40/31.5/40/31.5/40
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	80/100/80/100/80/100
8	额定短路关合电流 Rated Short-circuit Making Current	kA	80/100/80/100/80/100
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	31.5/40/31.5/40/31.5/40
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short-circuit Breaking Current	Operation	30
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	A	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	A	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	210±50
16	触头反力 Counterforce of Contact at Full Stroke	N	280±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/ Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	1
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence	O-0.3s-CO-180s-CO	
23	局部放电限值 Local Discharge Linmit Value		≤3

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

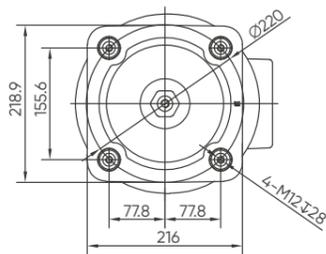
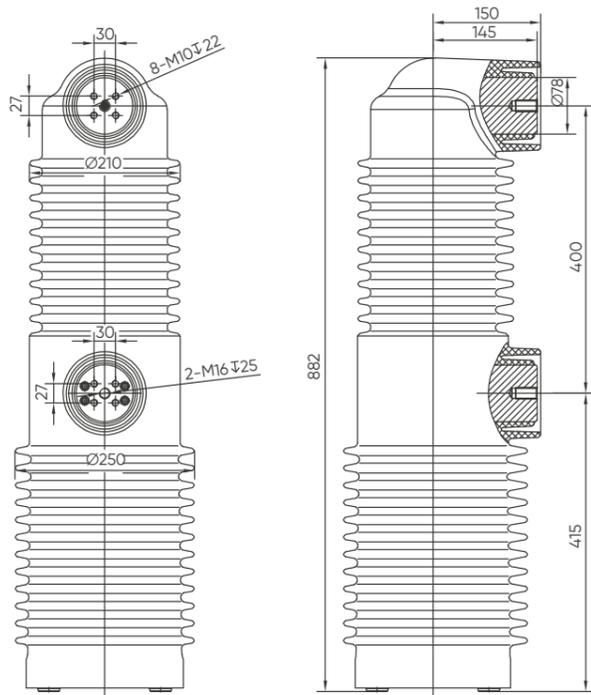
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	11±1
2	平均分闸速度 Average Opening Speed	m/s	1.3±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.75±0.2
4	额定超行程 Rated Over-travel	mm	3.5±0.5

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request. ★ 强制风冷
Forced air cooling.

注(Note):

- 产品符合或超过IEC62271-100以及GB/T1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB/T1984-2014;
- 真空灭弧室导电杆上能承受的扭力矩 ≤ 45N.m, 组装时应采取措施防止导电杆转动, 以避免损伤波纹管。
2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

EP-40.5/630-25~EP-40.5/2500-40(1)



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	40.5
2	额定电流 Rated Current(Ir)	A	630/1250/1600/2000/2500
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	65
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	125
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	25/31.5/40
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	63/80/100
8	额定短路关合电流 Rated Short-circuit Making Current	kA	63/80/100
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	25/31.5/40
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short-circuit Breaking Current	Operation	30
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	A	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	A	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	210±50
16	触头反力 Counterforce of Contact at Full Stroke	N	280±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	1
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO
23	局部放电限值 Local Discharge Linmit Value		≤3

配用的真空开关设备的机械特性参数 (建议值)

MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioen Contacts	mm	11±1
2	平均分闸速度 Average Opening Speed	m/s	1.3±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.75±0.2
4	额定超行程 Rated Over-travel	mm	3.5±0.5

● 为需要时提供额定参数

Rated Characteristics To Be Given On Request.

注(Note):

1.产品符合或超过IEC62271-100以及GB/T1984-2014中E2级的要求;

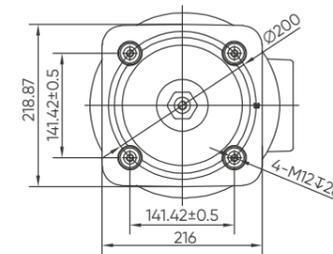
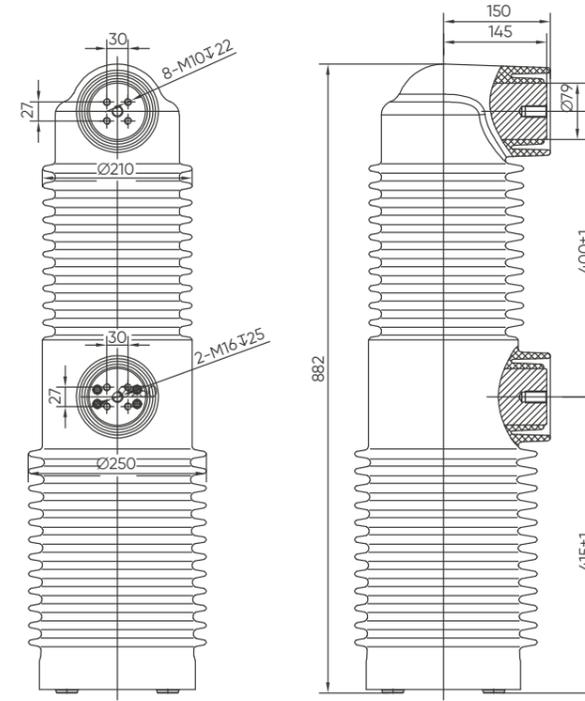
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB/T1984-2014;

2.真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。

2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
4	额定超行程下限时的触头压力 Contact Pressure at Min, Rated Over-travel	N	2500±200 3500±200 4000±200
5	额定合闸弹跳时间 Contace Pressure at contace touch point	ms	≤2
6	分闸触头反弹幅值 Overtravel during Opening	mm	≤2
7	触头合闸和分闸不同期性 Out of Simultaneity of Closing and Opening	ms	<1

EP-40.5/630-25~EP-40.5/2500-40(2)



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	40.5
2	额定电流 Rated Current(Ir)	A	630/1250/1600/2000/2500
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	65
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	125
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	25/31.5/40
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	63/80/100
8	额定短路关合电流 Rated Short-circuit Making Current	kA	63/80/100
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	25/31.5/40
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short-circuit Breaking Current	Operation	30
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	A	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	A	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	210±50
16	触头反力 Counterforce of Contact at Full Stroke	N	280±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	1
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO
23	局部放电限值 Local Discharge Linmit Value		≤3

配用的真空开关设备的机械特性参数 (建议值)

MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Cledarance Between Ioen Contacts	mm	11±1
2	平均分闸速度 Average Opening Speed	m/s	1.3±0.2
3	平均合闸速度 Average Closing Speed	m/s	0.75±0.2
4	额定超行程 Rated Over-travel	mm	3.5±0.5

● 为需要时提供额定参数

Rated Characteristics To Be Given On Request.

注(Note):

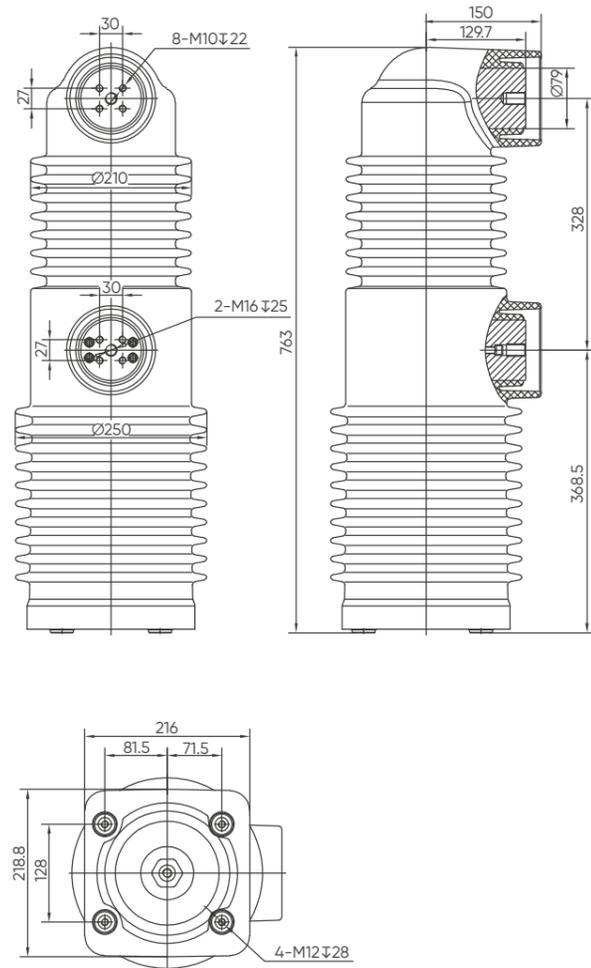
1.产品符合或超过IEC62271-100以及GB/T1984-2014中E2级的要求;

1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB/T1984-2014;

2.真空灭弧室动导电杆上能承受的扭力矩≤45N.m, 组装时应采取措施防止动导电杆转动, 以避免损伤波纹管。

2.The movable stem of the Vicould only suffering no more than 45N.m twisting force and in order not to damage the metal bellows,the movable stem should be prevent from rotation when assembling.

EP-40.5/630-25~EP-40.5/2500-40(3)



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定电压 Rated Voltage	kV	40.5
2	额定电流 Rated Current(Ir)	A	630/1250/1600/2000/2500
3	额定频率 Rated Frequency	Hz	50/60
4	额定短时工频耐受电压 (1 min) Short-time Power-frequency Withstand Voltage(1min)	kV	65
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	kV	125
6	额定短时耐受电流 Rated Short-time Withstand Current	kA	25/31.5/40
7	额定峰值耐受电流 Rated Peak Withstand Current	kA	63/80/100
8	额定短路关合电流 Rated Short-circuit Making Current	kA	63/80/100
9	额定短路开断电流 Rated Short-circuit Breaking Current	kA	25/31.5/40
10	额定短路持续时间 Rated Duration of Short-circuit	S	4
11	额定短路开断电流开断次数 Breaking Operations of Rated Short-circuit Breaking Current	Operation	30
12	额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	A	630 ●
13	额定背对背电容器组开断电流 Rated Back-to-back Capacitor Bank Breaking Current	A	400 ●
14	机械寿命 Mechanical Endurance	Operation	10000
15	触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	210±50
16	触头反力 Counterforce of Contact at Full Stroke	N	280±50
17	额定触头压力下回路电阻 Circuit Resistance at Min, Rated Contact Force	μΩ	≤25
18	触头允许磨损总厚度 Contact Limit Erosion/Internal Pressure	mm	3
19	运动部分质量 Mass of Moving Parts	kg	1
20	允许储存期 Shelf Life	year	20
21	内部气体压力 Internal Pressure	Pa	<1.33x10 ⁻³
22	额定操作顺序 Rated Operating Sequence		O-0.3s-CO-180s-CO
23	局部放电限定值 Local Discharge Limit Value		≤3

配用的真空开关设备的机械特性参数 (建议值)
MECHANICAL DATA OF VACUUM SWITCH EQUIPPED WITH THE INTERRUPTERS

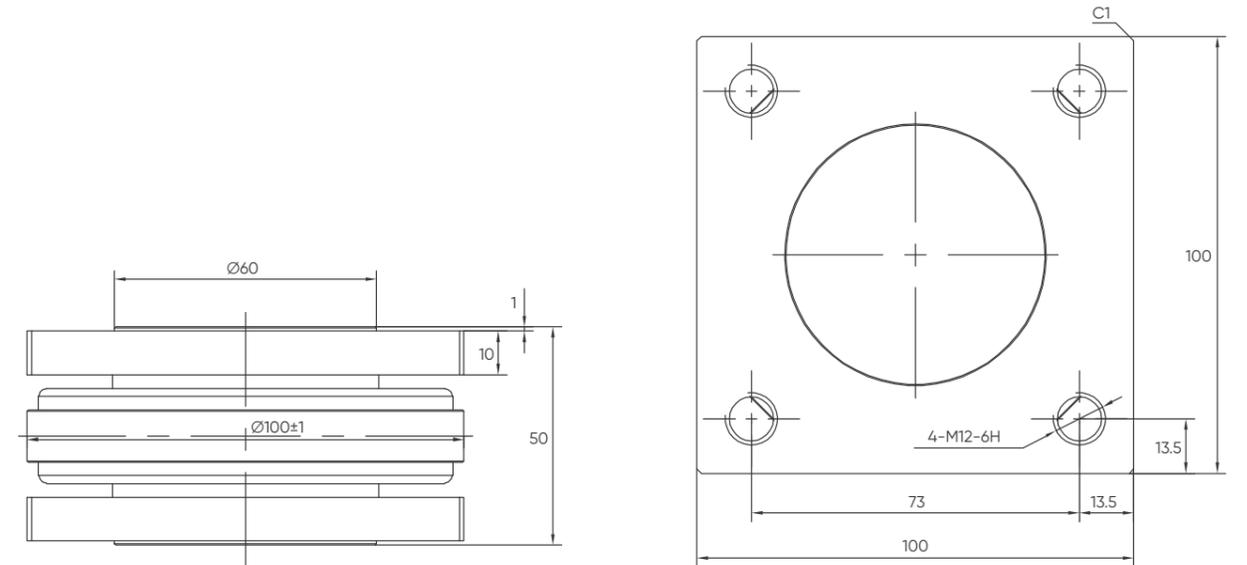
序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]	序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	额定开距 Clearance Between Ioin Contacts	mm	11±1	4	额定超行程下限时的触头压力 Contact Pressure at Min, Rated Over-travel	N	2500±200 3500±200 4000±200
2	平均分闸速度 Average Opening Speed	m/s	1.3±0.2	5	额定合闸弹跳时间 Contact Pressure at contact touch point	ms	≤2
3	平均合闸速度 Average Closing Speed	m/s	0.75±0.2	6	分闸触头反弹幅值 Overtravel during Opening	mm	≤2
4	额定超行程 Rated Over-travel	mm	3.5±0.5	7	触头合闸和分闸不同期性 Out of Simultaneity of Closing and Opening	ms	<1

● 为需要时提供额定参数
Rated Characteristics To Be Given On Request.

注(Note):

- 产品符合或超过IEC62271-100以及GB/T1984-2014中E2级的要求;
1.Meets or exceeds the electrical endurance requirements of class E2 for IEC62271-100 and GB/T1984-2014;
- 真空灭弧室动电杆上能承受的扭力矩 ≤ 45N.m, 组装时应采取措施防止动电杆转动, 以避免损伤波纹管。
2.The movable stem of the V could only suffering no more than 45N.m twisting force and in order not to damage the metal bellows, the movable stem should be prevented from rotation when assembling.

DC-6000



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
1	压力范围 Pressure Range	bar	5-6
2	最大允许电阻 Maximum Permissible Resistance	μΩ	<8
3	最大允许高度 Maximum Height	mm	50.6
4	最大允许行程 Maximum Permissible Stroke	mm	3
5	电流中断操作 Current Interruption Operations		100

序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]
6	机械操作 (空载) Mechanical Operations(No Load)		1000
7	额定被中断电流 Rated Current To Be Interrupted	kA	6
8	额定连续电流 Rated Continuous Current	kA	6
9	试验电压 Test Voltage	V	550
10	电流中断时的电压 Voltage During Current Interruption	V	50
11	额定工作电压 Rated Operating Voltage	VDC	750

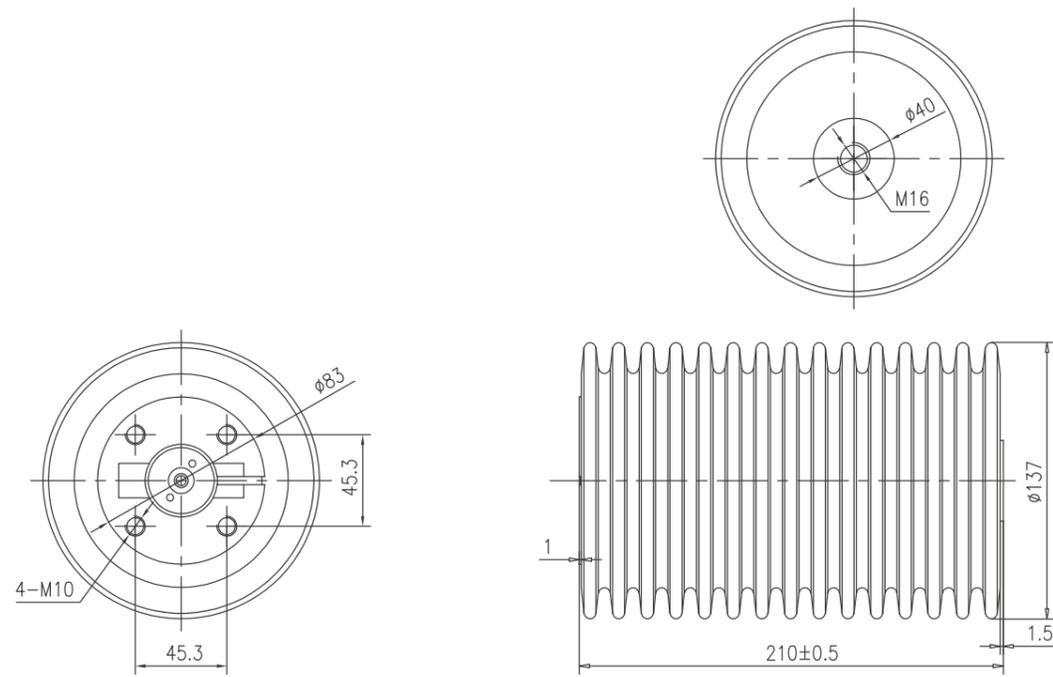
注:

- 周围的空气温度是-20℃~35℃, 环境空气的最高温度不会超过50; 环境气温的24小时平均值不超过35℃;
- 环境空气温度的下限一般不低于-20℃; 安装场地海拔不超过2400米;
- 当周围空气的温度为摄氏35度时, 大气的相对湿度不会超过90%;
- 安装类别为 II ;
- 适用于低酸度的空气环境;
- 绝缘强度大于200MΩ, 外壳防护等级为 IP42;
- 开启和关闭额定峰值抗冲击电流200kA (热稳定的抗冲击电流为3秒)。操作和关闭频率不少于100000次, 电力等级为 E2。

Note:

- The ambient air temperature is -20℃~35℃; the highest ambient air temperature does not exceed 50℃; The 24-hour average of ambient air temperature does not exceed 35℃; the lower limit of ambient air temperature is generally not less than -20℃;
- The altitude of the installation site does not exceed 2400 meters;
- The relative humidity of the atmosphere does not exceed 90% when the temperature of the surrounding air is 35℃;
- The installation category is II ;
- Suitable for low acidity air environment.
- The insulation strength is greater than 200MΩ, and the enclosure protection grade is IP42;
- Opening and closing rated peak shock resistance current 200kA (thermally stable shock resistance current for 3 seconds). The frequency of operation and closing is no less than 100000 times, and the electrical level is E2.

Rapid Arc Extinguisher



序号	参数项目 [DATA]	单位 [UNIT]	参数值 [VALUE]										
1	额定电压 Rated Voltage	Unit	1.4	1.4	17.5	17.5	27	27	36	36	40.5	40.5	
2	额定电流 Rated Current	kV	630	1000	2500	4000	2500	4000	2500	4000	2500	4000	
3	额定频率 Rated Frequency	A	50/60										
4	额定短时工频耐受电压(1min) Short-time Power-freqluse Withstand Voltage(1min)	Hz	5	5	42	42	60	60	70	70	95	95	
5	额定雷电冲击耐受电压 Lightning Impulse Withstand Voltage(Peak)	kV	12	12	95	95	150	150	170	170	200	200	
6	额定短路关合电流 Rated Short-circuit Making Current	kV	140	220	65	104	65	104	65	104	65	104	
7	额定短时耐受电流 Rated Short-time Withstand Current	kA	63	100	25	40	25	40	25	40	25	40	
8	额定峰值耐受电流 Rated Peak Withstand Current	kA	140	220	65	104	65	104	65	104	65	104	
9	额定短路持续时间 Rated Duration of Short-circuit	kA	1	0.5	3	3	3	3	3	3	3	3	
10	动作时间 Action Time	s	<1.5										
11	触头弹跳时间 Bounce Time of Contacts	ms	0										
12	操作次数 Operation Time	Ms	1										
13	机械寿命 Mechanical Endurance	Year	30										
14	微型气体发生器 Micro Gas Generator	Year	15										
15	海拔高度 Altitude	M	≤1000										