

XIKAI

Vacuum Interrupter

Quickly extinguish the arc and
suppress the current to avoid
accidents and mishaps



Constructing
World Bridge of Power System,
Providing Excellent Products From
XIYA

Key Of Power Electric Professional

- Composite Insulator
- Disconnecting Switch
- SF6 & Vacuum Circuit Breaker
- Surge Arrester
- Whole Set Cabinet
- Fitting&Clamp (Hardware)
- Wall Bushing
- Loadbreak Switch
- Switchgear
- Fuse Cutout
- Cable Accessories
- Vacuum interrupter



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www.cnxikai.com



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XIKAI

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产品使用说明 Product Instructions

主要用途及工作条件

主要用途

浙江颐光真空电器有限公司生产的真空灭弧室，按用途可分为真空断路器和真空负荷开关用真空灭弧室。用它组装的开关具有体积小、重量轻、寿命长、可靠性高、维护方便、无污染、使用安全等优点。广泛应用于电力、冶金、矿山、石油、化工、铁路等级领域。

正常使用条件

- 海拔高度：不超过1000m（除海拔特殊需要外）；
- 周围空气温度：户内环境温度-25℃～+40℃；户外环境温度-40℃～+40℃；
- 户内相对湿度：日平均值不大于95%，月平均值不大于90%；户外应有相应防凝露措施；
- 周围没有腐蚀性或可燃性气体、无严重的污秽及剧烈震动的场所；
- 地震烈度不超过8度；
- 当用于投切电容器组、高压电动机、电弧炉、变压器等容性感性负载时，应采用相应的过电压保护措施，其中对感性负载建议优先考虑阻容保护；
- 其余要求应满足于GB/T11022-2011《高压开关设备和控制设备标准的共用技术要求》。

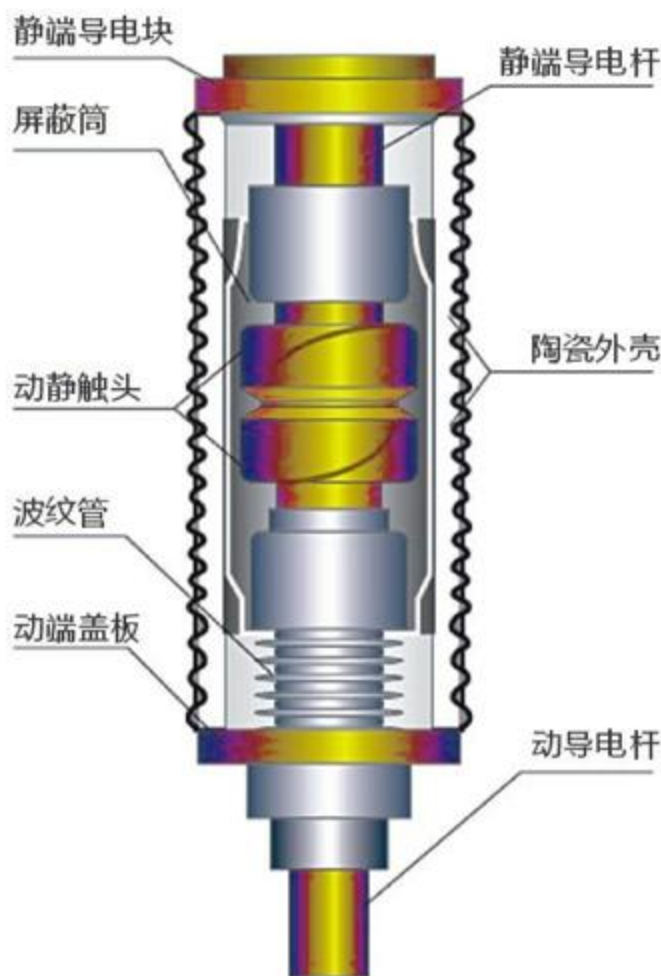
注：当上述正常使用条件不能满足使用要求时，由用户与制造厂协商。

主要技术特性

真空灭弧室主要参数、外形尺寸应满足本样本正页的规定；

整机主要技术参数、机械特性应符合灭弧室企业产品标准的规定。

真空灭弧室的结构及工作原理



真空灭弧室是真空开关的核心部件，开关的合、分操作，是通过操作机构使真空灭弧室内的动触头与静触头的闭合或分离来完成的。真空灭弧室的基本结构如图1-1，其外壳由陶瓷等无机绝缘材料制成，呈圆筒状，两端用金属盖板封接组成一个密闭容器。静触头固定在静导电杆上，动触头固定在动导电杆上。由于动导电杆和金属盖板之间密封有波纹管，所以动导电杆可以沿轴向运动，从而带动动触头完成合、分动作。在触头和波纹管周围都设有屏蔽罩。真空灭弧室内部为高真空（ $<1.33\times10^{-3}\text{Pa}$ ）。当动、静触头在操动机构作用下合闸时，动、静触头闭合，电源与负载接通，电流流过负载。反之当动、静触头在操动机构作用下带电分闸时，触头间产生真空电弧，真空电弧依靠触头上蒸发出来的金属蒸汽维持，直到工频交流电流接近零时，金属蒸汽将接近停止蒸发，同时加上真空电弧的等离子体很快向四周扩散，电弧就被熄灭，触头间隙很快地变为绝缘体，于是电流就被分断。

真空电弧不是靠电极间气体分子电离维持的，它是依靠电极材料蒸发所形成的金属蒸汽的电离维持的。当其开断一定数值的电流时，动、定触头在分离的瞬间，电流收缩到触头刚分的某一点或某几点上，电极间电阻剧烈增大，温度的迅速提高，直至发生电极金属的蒸发，同时形成极高的电场强度、导致强烈的场致发射和间隙的击穿，产生了真空电弧，当工频电流接近零时，随着触头开距的增大，真空电弧的等离子体很快向四周扩散，电弧电流过零后，触头间隙的介质迅速由导体变为绝缘体，于是电流被分断，开断结束。燃弧过程中产生的金属蒸汽被屏蔽罩表面冷凝，释放的少量气体中的一部分被凝聚的金属蒸汽吸收，一部分被管内吸气剂吸收，使真空灭弧室内一直维持高的真空度。

验收检查

- 收货检查包装是否完好，开箱后检查真空灭弧室外观是否完好无损，并核对产品与产品合格证是否相符；
- 检查工频耐压：真空灭弧室在使用前进行一次工频耐压测试。测试前应先将真空灭弧室表面用干布或用酒精润湿的干净抹布擦拭干净。测试规范为：在额定开距下，在两端施加额定工频耐受电压的70%，稳压一分钟，然后在一分钟内在升至额定工频耐受电压，保持一分钟。在施加电压的过程中，若指示仪表指针无突变及跳闸现象为合格，允许管内在零星火星及轻微闪烁现象。
- 经以上检查后，判定为不合格的灭弧室，请及时与我公司市场部联系，以便得到及时处理。

安装、调整过程注意事项

- 安装前用细纱布蘸少许酒精，将灭弧室外壳擦拭干净，同时将导电杆及电连接表面擦净，以使其与整机有良好的电接触；
- 按真空断路器的要求将真空灭弧室安装在真空断路器上并调整好。与灭弧室有关的机械参数应满足技术条件中的参数要求；
- 安装、调整过程中，严禁用硬物撞击或敲打真空灭弧室外壳以免破碎漏气；
- 紧固静端导板用的螺钉，旋入灭弧室的深度应小于灭弧室外形图标注的螺纹深度；
- 在安装绝缘拉杆的过程中，防止动导电杆转动，使波纹管受扭力影响其寿命；
- 真空灭弧室工作时，必须有导向装置，使动导电杆对整管的轴线的同轴度符合要求，波纹管不受扭力；
- 注意保证灭弧室导杆的同轴度或与静端面的垂直度；
- 安装过程中，真空灭弧室的绝缘外壳不应受明显的横向力；
- 注意不要反复拆卸灭弧室，以防止连接螺孔滑扣；也不应扭转动导电杆，过量压缩波纹管，以免使波纹管产生扭力，划伤，影响使用寿命；
- 在装配绝缘拉杆时请不要上螺纹胶且应用力矩扳手装配，以避免在退出绝缘拉杆时将钢丝螺套带出。若已上了螺纹胶，请不要轻易退出绝缘拉杆；
- 装配绝缘拉杆时应保证其旋进动导电杆的有效深度不少于螺纹直径的1.5倍。

使用、运行

- 运行时，真空灭弧室的工作电压和工作电流不应超过额定值；
- 定期用工频耐压法检查真空度；将真空灭弧室调整到额定触头开距（即断路器分闸状态），在灭弧室断口间施加额定短时（1min）工频耐受电压，内部不应有持续放电，否则应更换灭弧室。

保养、维护

- 开箱后，若发现灭弧室受潮，在将其放在70～80℃和烘箱中烘烤48小时后方可使用；
- 若真空灭弧室长期不用，必须定期检查，若受到水汽及有害气体的腐蚀，应进行清洁处理。如果发现灭弧室受潮，将其放在70～80℃和烘箱中烘烤48小时之后高温改善贮存条件；
- 运行中定期维护检查内容：
 - a) 真空灭弧室的工频耐压；
 - b) 真空灭弧室外表面是否清洁干净。

附件、包装、运输、贮存

- 附件：安装使用说明书一份和合格证一份；
- 包装、运输注意事项
 - a) 产品出厂时，应按规定的包装标准进行包装，箱上“向上”、“怕湿”、“小心轻放”等标志清楚、醒目；
 - b) 包装好的真空灭弧室可以用汽车、火车、飞机运输。在汽车运输时，允许颠簸程度相当于汽车的三级路面以20km/h速度行驶的程度，装卸过程中应轻拿，不能翻滚、碰撞。
- 贮存条件、贮存期限
 - a) 贮存条件：干燥、通风、无腐蚀性气体，温度为-30～40℃的室内；
 - b) 贮存期限：20年（在未装上开关前）。

户内断路器用真空灭弧室 Vacuum Interrupter For Indoor Circuit Breakers
TD-12/1250-25(2D53)

Key of Power
Electric Professional
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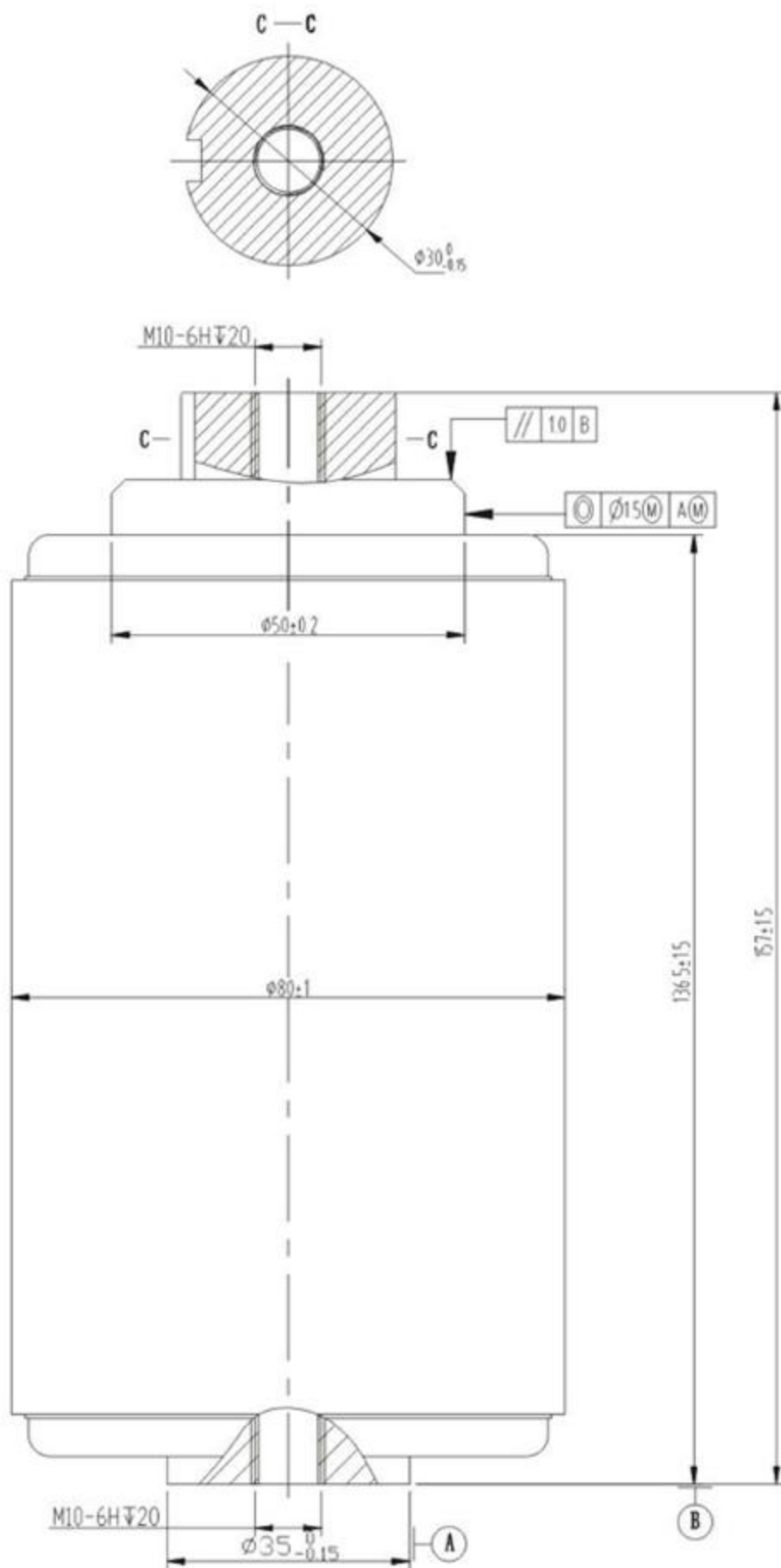


TD-12/1250-25 (2D53)

户内断路器用真空灭弧室 Vacuum Interrupter For Indoor Circuit Breakers
TD-12/1250-25(2D53)

Key of Power
Electric Professional
>

TD-12/1250-25 (2D53)
配：固体绝缘柜



说明

Notes

- 1、本产品符合或超过IEC62271-100以及GB1984-2003中E2级的要求。
Meets or exceeds the electrical endurance requirements of class E2 for autoreclosing duty per IEC62271-100 and GB1984-2003.
- 2、※为有需要时提供的额定参数。
※Rated characteristics to be given on request.
- 3、☆代表额定绝缘测试需要外绝缘保护如SF6气体、油或固体绝缘材料。
☆Rated insulation values require external insulation, such as SF6, oil or solid dielectric material etc.

主要参数

Main Technical Specification

额定电压 Rated Voltage	KV	12
额定电流 Rated Current	A	1250
额定频率 Rated Frequency	Hz	50
额定短时(1min)工频耐受电压 Short-time power-frequency Withstand Voltage(1min)	KV	42/48☆
额定雷电冲击耐受电压(峰值) Rated lightning Impulse Withstand Voltage(Peak)	KV	75☆
额定短路开断电流 Rated Short-circuit Breaking Current	KA	25
额定峰值耐受电流 Rated Peak Withstand Current	KA	63
额定短路关合电流 Rated Short-circuit Making Current	KA	63
额定短时耐受电流 Rated Short-time Withstand Current	KA	25
额定短路持续时间 Rated Duration of Short-circ	S	4
额定单个电容器组开断电流※ Rated Single Capacitor Bank Breaking Current	A	630
额定背对背电容器组开断电流※ Rated Back to Back Capacitor Bank Breaking Current	A	400
额定短路开断电流次数 Rated Short-circuit Making Current	Times	30
运动部分质量 Mass of Moving Parts	Kg	1.2
机械寿命 Mechanical Endurance	Times	10000
触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	110±30
额定开距下的触头反力 Counterforce of Contact at Full Stroke	N	190±30
额定触头压力下的回路电阻 Circuit Resistance at Min.Rated Contact Force	μΩ	<25
触头允许磨损厚度 Contact Limit Erosion	mm	3
允许储存期 Storage Life	Years	20

配套的真空开关设备应满足的机械参数

Mechanical Data Of Vacuum Switch Equipped With The Interrupters

触头开距 Clearance Between Open Contacts	mm	9±1
平均分闸速度 Average Opening Speed	m/s	1.1±0.2
平均合闸速度 Average Closing Speed	m/s	0.7±0.2
额定触头压力 Rated Contact Pressure	N	2000±200
触头合闸弹跳时间 Contact Bounce Duration at Closing Operation	ms	<2
触头合分闸不同期性 Out of Simultaneity of Contact Closing and Operation	ms	<2
分闸触头反弹幅值 Maximum Rebound During Opening	mm	<2

户内断路器用真空灭弧室 Vacuum Interrupter For Indoor Circuit Breakers
TD-12/1250-25(2D53包胶)

Key of Power
Electric Professional
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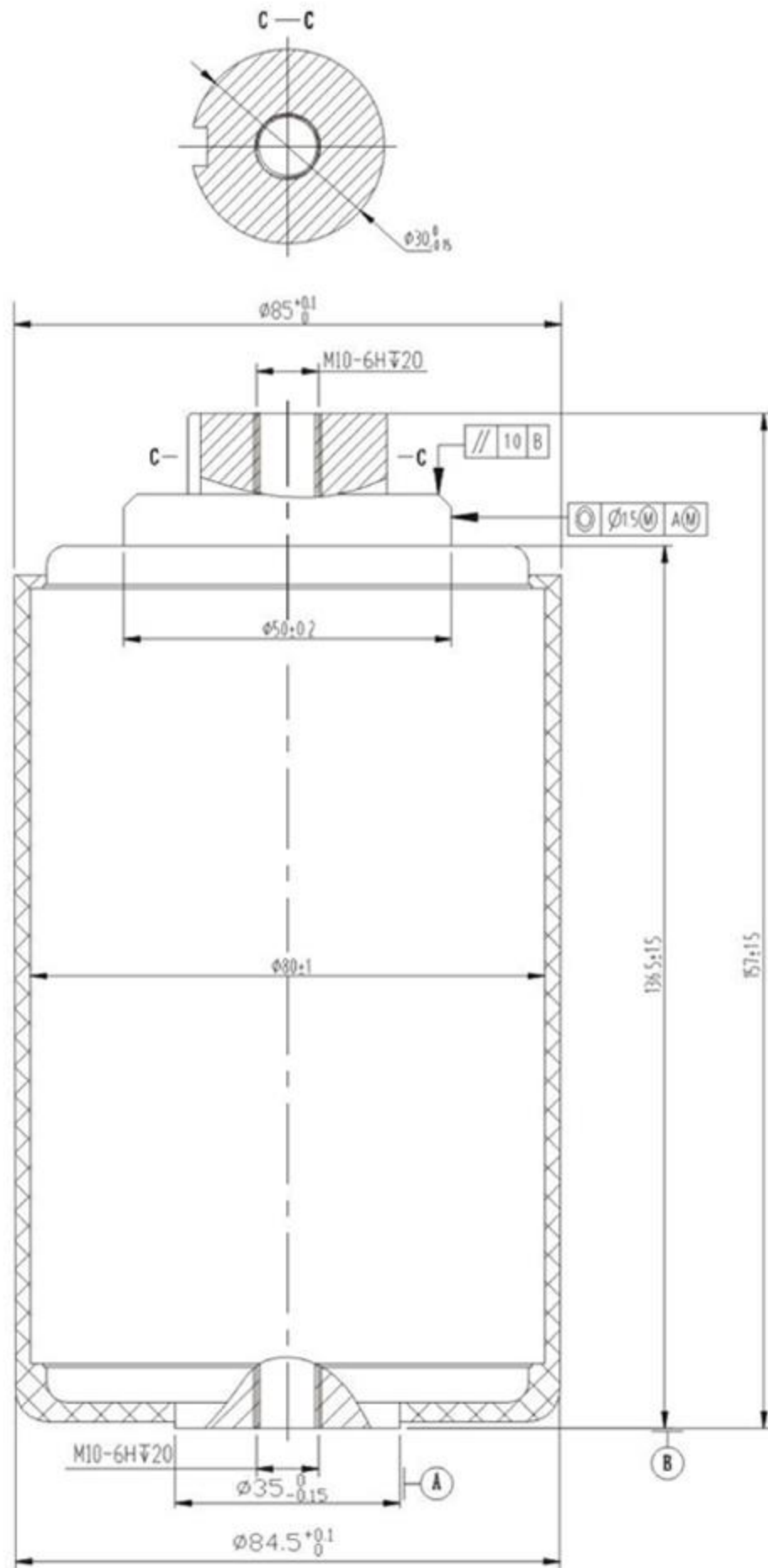


TD-12/1250-25 (2D53包胶)

户内断路器用真空灭弧室 Vacuum Interrupter For Indoor Circuit Breakers
TD-12/1250-25(2D53包胶)

Key of Power
Electric Professional
>

TD-12/1250-25 (2D53包胶)
配：固体绝缘柜



说明
Notes

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- 3、☆ 代表额定绝缘测试需要外绝缘保护如SF6气体、油或固体绝缘材料。
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主要参数

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额定短路关合电流 Rated Short-circuit Making Current	KA	63
额定短时耐受电流 Rated Short-time Withstand Current	KA	25
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额定单个电容器组开断电流※ Rated Single Capacitor Bank Breaking Current	A	630
额定背对背电容器组开断电流※ Rated Back to Back Capacitor Bank Breaking Current	A	400
额定短路开断电流次数 Rated Short-circuit Making Current	Times	30
运动部分质量 Mass of Moving Parts	Kg	1.2
机械寿命 Mechanical Endurance	Times	10000
触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	110 ± 30
额定开距下的触头反力 Counterforce of Contact at Full Stroke	N	190 ± 30
额定触头压力下的回路电阻 Circuit Resistance at Min.Rated Contact Force	μ Ω	< 25
触头允许磨损厚度 Contact Limit Erosion	mm	3
允许储存期 Storage Life	Years	20

配套的真空开关设备应满足的机械参数

Mechanical Data Of Vacuum Switch Equipped With The Interrupters

触头开距 Clearance Between Open Contacts	mm	9 ± 1
平均分闸速度 Average Opening Speed	m/s	1.1 ± 0.2
平均合闸速度 Average Closing Speed	m/s	0.7 ± 0.2
额定触头压力 Rated Contact Pressure	N	2000 ± 200
触头合闸弹跳时间 Contact Bounce Duration at Closing Operation	ms	< 2
触头合分闸不同期性 Out of Simultaneity of Contact Closing and Operation	ms	< 2
分闸触头反弹幅值 Maximum Rebound During Opening	mm	< 2

户内断路器用真空灭弧室 Vacuum Interrupter For Indoor Circuit Breakers
TD-12/630-20(2D56B)

Key of Power
Electric Professional
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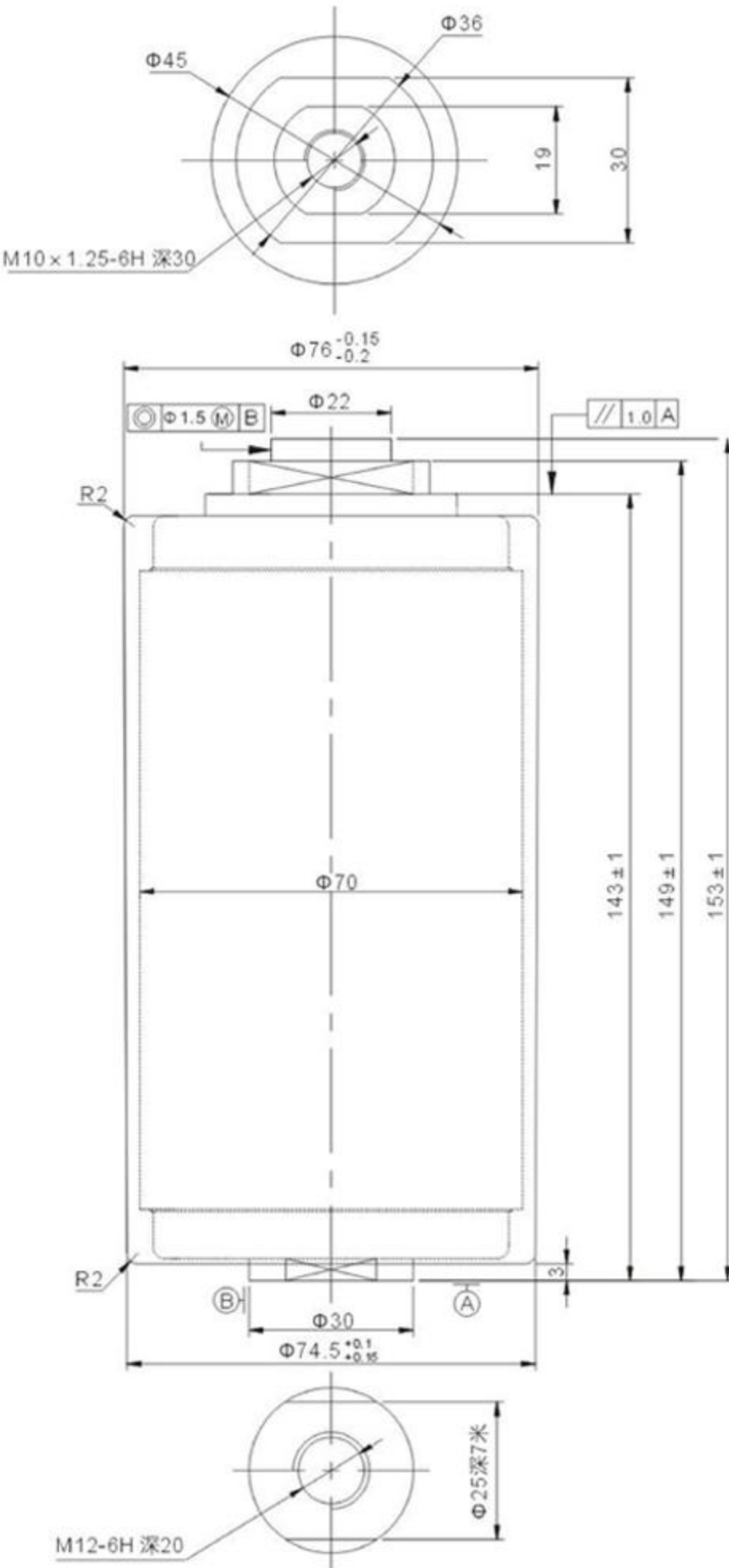


TD-12/630-20 (2D56B)

户内断路器用真空灭弧室 Vacuum Interrupter For Indoor Circuit Breakers
TD-12/630-20(2D56B)

Key of Power
Electric Professional
>

TD-12/630-20 (2D56B)
配: ZN-100



说明
Notes

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- 2、※ 为有需要时提供的额定参数。
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- 3、☆ 代表额定绝缘测试需要外绝缘保护如SF6气体、油或固体绝缘材料。
☆Rated insulation values require external insulation, such as SF6, oil or solid dielectric material etc.

主要参数

Main Technical Specification

额定电压 Rated Voltage	KV	12
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额定短路开断电流 Rated Short-circuit Breaking Current	KA	20
额定峰值耐受电流 Rated Peak Withstand Current	KA	50
额定短路关合电流 Rated Short-circuit Making Current	KA	50
额定短时耐受电流 Rated Short-time Withstand Current	KA	20
额定短路持续时间 Rated Duration of Short-circ	S	4
额定单个电容器组开断电流 ※ Rated Single Capacitor Bank Breaking Current	A	400
额定背对背电容器组开断电流 ※ Rated Back to Back Capacitor Bank Breaking Current	A	400
额定短路开断电流次数 Rated Short-circuit Making Current	Times	20
运动部分质量 Mass of Moving Parts	Kg	0.45
机械寿命 Mechanical Endurance	Times	10000
触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	80 ± 30
额定开距下的触头反力 Counterforce of Contact at Full Stroke	N	130 ± 30
额定触头压力下的回路电阻 Circuit Resistance at Min.Rated Contact Force	μ Ω	< 25
触头允许磨损厚度 Contact Limit Erosion	mm	3
允许储存期 Storage Life	Years	20

配套的真空开关设备应满足的机械参数

Mechanical Data Of Vacuum Switch Equipped With The Interrupters

触头开距 Clearance Between Open Contacts	mm	9 ± 1
平均分闸速度 Average Opening Speed	m/s	1.1 ± 0.2
平均合闸速度 Average Closing Speed	m/s	0.7 ± 0.2
额定触头压力 Rated Contact Pressure	N	1800 ± 200
触头合闸弹跳时间 Contact Bounce Duration at Closing Operation	ms	< 3
触头合分闸不同期性 Out of Simultaneity of Contact Closing and Operation	ms	< 2
分闸触头反弹幅度 Maximum Rebound During Opening	mm	< 2

户内断路器用真空灭弧室 Vacuum Interrupter For Indoor Circuit Breakers
TD-12/630-20(2D56B包胶)

Key of Power
Electric Professional
>

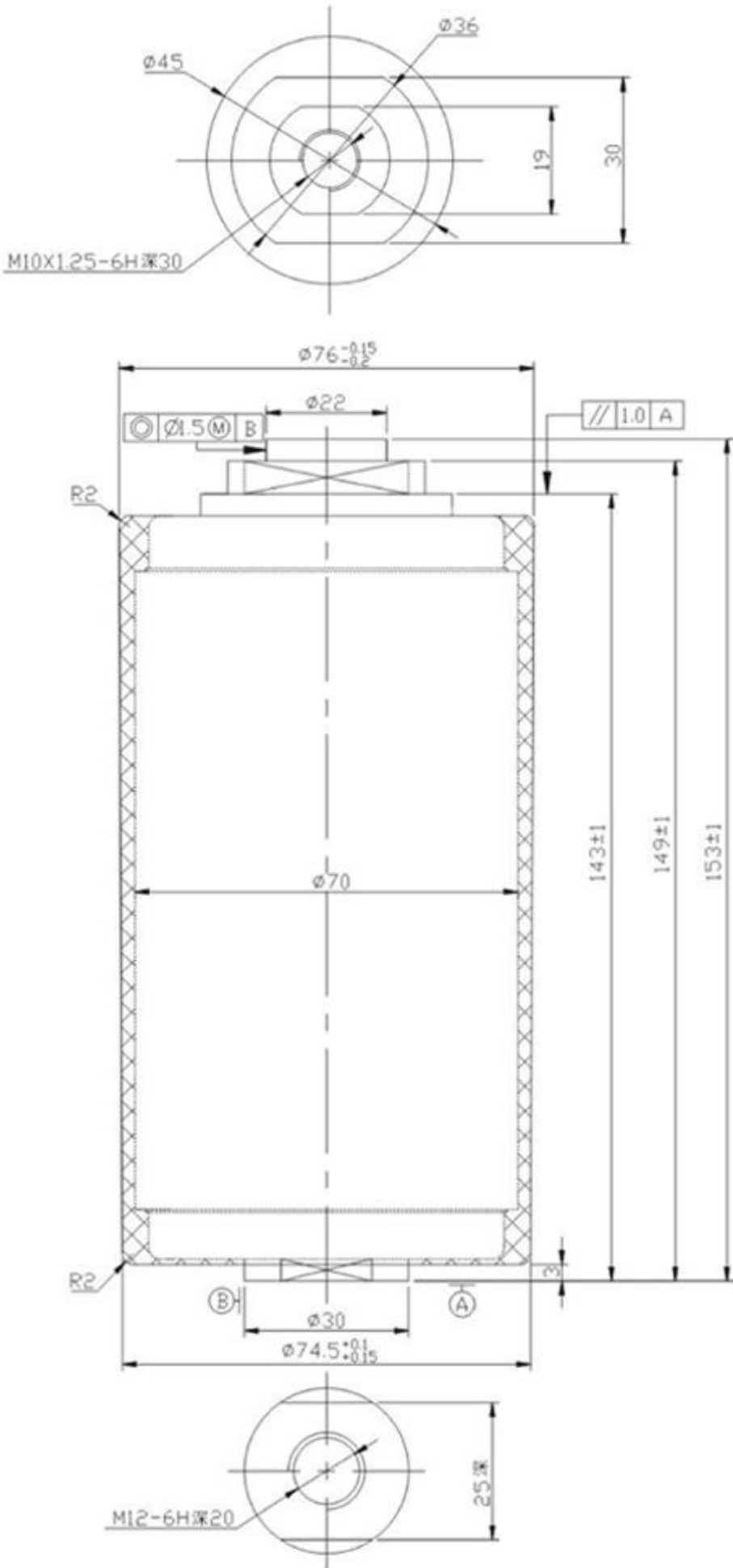


TD-12/630-20 (2D56B包胶)

户内断路器用真空灭弧室 Vacuum Interrupter For Indoor Circuit Breakers
TD-12/630-20(2D56B包胶)

Key of Power
Electric Professional
>

TD-12/630-20 (2D56B包胶)
配: ZN-100



说明

Notes

- 1、本产品符合或超过IEC62271-100以及GB1984-2003中E2级的要求。
Meets or exceeds the electrical endurance requirements of class E2 for autoreclosing duty per IEC62271-100 and GB1984-2003.
- 2、※ 为有需要时提供的额定参数。
※ Rated characteristics to be given on request.
- 3、☆ 代表额定绝缘测试需要外绝缘保护如SF6气体、油或固体绝缘材料。
☆ Rated insulation values require external insulation, such as SF6, oil or solid dielectric material etc.

主要参数

Main Technical Specification

额定电压 Rated Voltage	KV	12
额定电流 Rated Current	A	630
额定频率 Rated Frequency	Hz	50
额定短时(1min)工频耐受电压 Short-time power-frequency Withstand Voltage(1min)	KV	42/48 ☆
额定雷电冲击耐受电压(峰值) Rated lightning Impulse Withstand Voltage(Peak)	KV	75 ☆
额定短路开断电流 Rated Short-circuit Breaking Current	KA	20
额定峰值耐受电流 Rated Peak Withstand Current	KA	50
额定短路关合电流 Rated Short-circuit Making Current	KA	50
额定短时耐受电流 Rated Short-time Withstand Current	KA	20
额定短路持续时间 Rated Duration of Short-circ	S	4
额定单个电容器组开断电流 ※ Rated Single Capacitor Bank Breaking Current	A	400
额定背对背电容器组开断电流 ※ Rated Back to Back Capacitor Bank Breaking Current	A	400
额定短路开断电流次数 Rated Short-circuit Making Current	Times	20
运动部分质量 Mass of Moving Parts	Kg	0.45
机械寿命 Mechanical Endurance	Times	10000
触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	80 ± 30
额定开距下的触头反力 Counterforce of Contact at Full Stroke	N	130 ± 30
额定触头压力下的回路电阻 Circuit Resistance at Min.Rated Contact Force	μ Ω	< 25
触头允许磨损厚度 Contact Limit Erosion	mm	3
允许储存期 Storage Life	Years	20

配套的真空开关设备应满足的机械参数

Mechanical Data Of Vacuum Switch Equipped With The Interrupters

触头开距 Clearance Between Open Contacts	mm	9 ± 1
平均分闸速度 Average Opening Speed	m/s	1.1 ± 0.2
平均合闸速度 Average Closing Speed	m/s	0.7 ± 0.2
额定触头压力 Rated Contact Pressure	N	1800 ± 200
触头合闸弹跳时间 Contact Bounce Duration at Closing Operation	ms	< 2
触头合分闸不同期性 Out of Simultaneity of Contact Closing and Operation	ms	< 2
分闸触头反弹幅值 Maximum Rebound During Opening	mm	< 2

户内断路器用真空灭弧室 Vacuum Interrupter For Indoor Circuit Breakers
TD-12/630-25(2D60)

Key of Power
Electric Professional
>



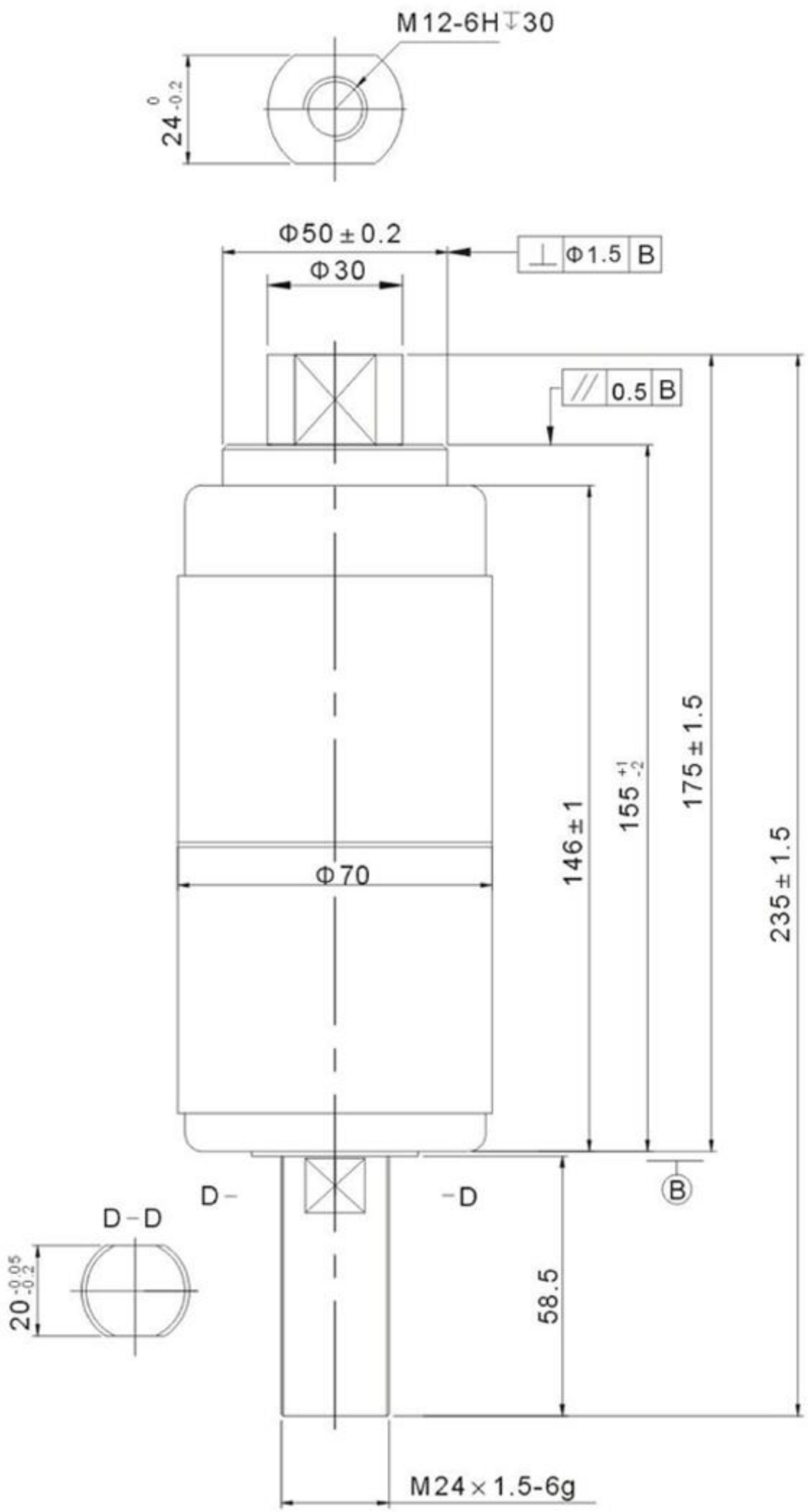
TD-12/630-25 (2D60)

户内断路器用真空灭弧室 Vacuum Interrupter For Indoor Circuit Breakers
TD-12/630-25(2D60)

Key of Power
Electric Professional
>

TD-12/630-25 (2D60)

配：充气柜



说明

Notes

- 1、本产品符合或超过IEC62271-100以及GB1984-2003中E2级的要求。
Meets or exceeds the electrical endurance requirements of class E2 for autoreclosing duty per IEC62271-100 and GB1984-2003.
- 2、※为有需要时提供的额定参数。
※Rated characteristics to be given on request.
- 3、☆代表额定绝缘测试需要外绝缘保护如SF6气体、油或固体绝缘材料。
☆Rated insulation values require external insulation, such as SF6, oil or solid dielectric material etc.

主要参数

Main Technical Specification

额定电压 Rated Voltage	KV	12
额定电流 Rated Current	A	630
额定频率 Rated Frequency	Hz	50
额定短时(1min)工频耐受电压 Short-time power-frequency Withstand Voltage(1min)	KV	42/48 ☆
额定雷电冲击耐受电压(峰值) Rated lightning Impulse Withstand Voltage(Peak)	KV	75 ☆
额定短路开断电流 Rated Short-circuit Breaking Current	KA	25
额定峰值耐受电流 Rated Peak Withstand Current	KA	63
额定短路关合电流 Rated Short-circuit Making Current	KA	63
额定短时耐受电流 Rated Short-time Withstand Current	KA	25
额定短路持续时间 Rated Duration of Short-circ	S	4
额定单个电容器组开断电流 ※ Rated Single Capacitor Bank Breaking Current	A	400
额定背对背电容器组开断电流 ※ Rated Back to Back Capacitor Bank Breaking Current	A	400
额定短路开断电流次数 Rated Short-circuit Making Current	Times	20
运动部分质量 Mass of Moving Parts	Kg	0.8
机械寿命 Mechanical Endurance	Times	10000
触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	110 ± 30
额定开距下的触头反力 Counterforce of Contact at Full Stroke	N	210 ± 50
额定触头压力下的回路电阻 Circuit Resistance at Min.Rated Contact Force	μ Ω	< 25
触头允许磨损厚度 Contact Limit Erosion	mm	3
允许储存期 Storage Life	Years	20

配套的真空开关设备应满足的机械参数

Mechanical Data Of Vacuum Switch Equipped With The Interrupters

触头开距 Clearance Between Open Contacts	mm	9 ± 1
平均分闸速度 Average Opening Speed	m/s	1.1 ± 0.2
平均合闸速度 Average Closing Speed	m/s	0.7 ± 0.2
额定触头压力 Rated Contact Pressure	N	1800 ± 200
触头合闸弹跳时间 Contact Bounce Duration at Closing Operation	ms	< 2
触头合分闸不同期性 Out of Simultaneity of Contact Closing and Operation	ms	< 2
分闸触头反弹幅值 Maximum Rebound During Opening	mm	< 2

户内断路器用真空灭弧室 Vacuum Interrupter For Indoor Circuit Breakers
TD-12/630-20(2D60B)

Key of Power
Electric Professional
>



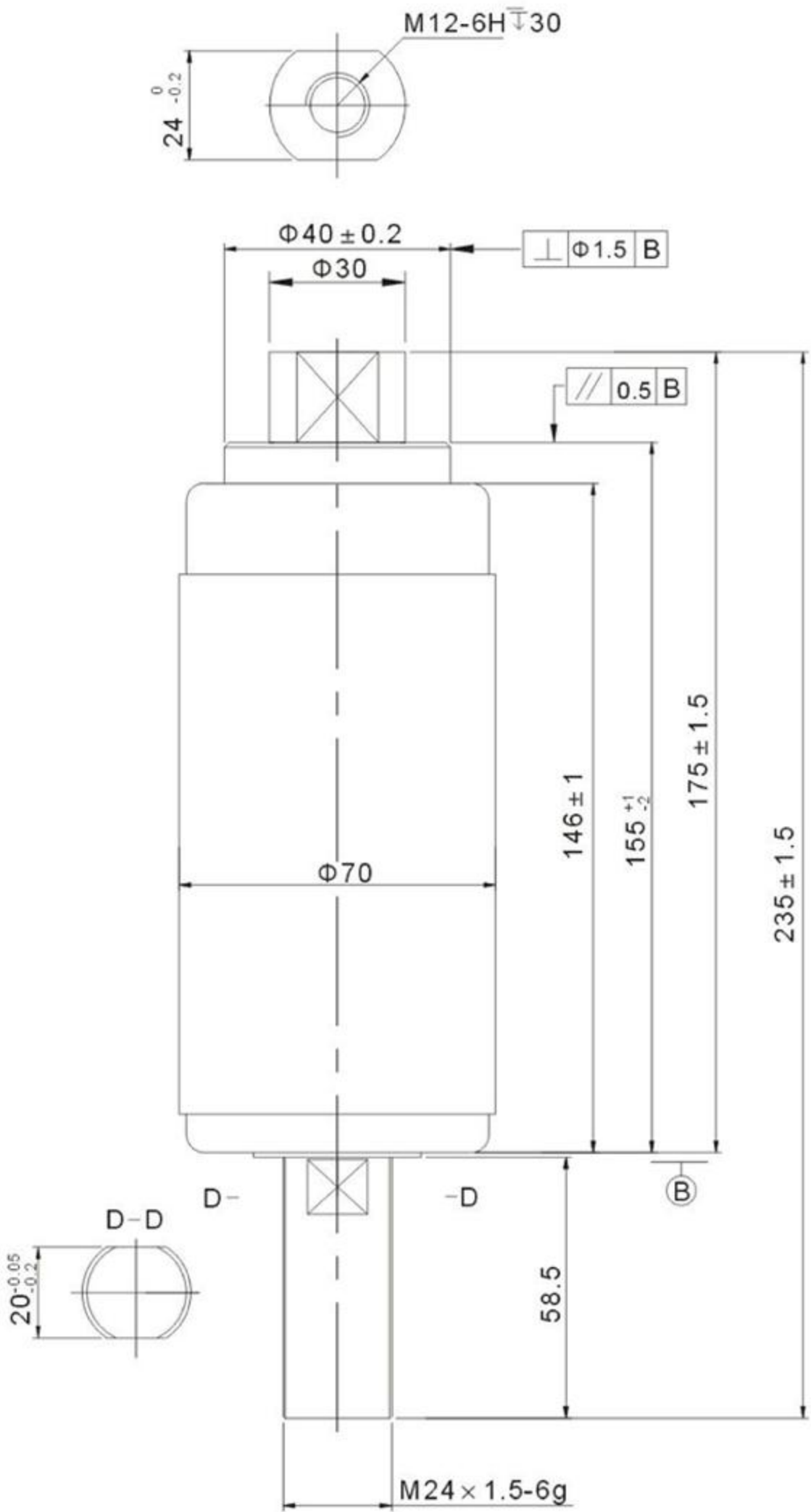
TD-12/630-20 (2D60B)

户内断路器用真空灭弧室 Vacuum Interrupter For Indoor Circuit Breakers
TD-12/630-20(2D60B)

Key of Power
Electric Professional
>

TD-12/630-20 (2D60B)

配：充气柜



说明

Notes

- 1、本产品符合或超过IEC62271-100以及GB1984-2003中E2级的要求。
Meets or exceeds the electrical endurance requirements of class E2 for autoreclosing duty per IEC62271-100 and GB1984-2003.
- 2、※为有需要时提供的额定参数。
※Rated characteristics to be given on request.
- 3、☆代表额定绝缘测试需要外绝缘保护如SF6气体、油或固体绝缘材料。
☆Rated insulation values require external insulation, such as SF6, oil or solid dielectric material etc.

主要参数

Main Technical Specification

额定电压 Rated Voltage	KV	12
额定电流 Rated Current	A	630
额定频率 Rated Frequency	Hz	50
额定短时(1min)工频耐受电压 Short-time power-frequency Withstand Voltage(1min)	KV	42/48 ☆
额定雷电冲击耐受电压(峰值) Rated lightning Impulse Withstand Voltage(Peak)	KV	75 ☆
额定短路开断电流 Rated Short-circuit Breaking Current	KA	20
额定峰值耐受电流 Rated Peak Withstand Current	KA	50
额定短路关合电流 Rated Short-circuit Making Current	KA	50
额定短时耐受电流 Rated Short-time Withstand Current	KA	20
额定短路持续时间 Rated Duration of Short-circ	S	4
额定单个电容器组开断电流 ※ Rated Single Capacitor Bank Breaking Current	A	400
额定背对背电容器组开断电流 ※ Rated Back to Back Capacitor Bank Breaking Current	A	400
额定短路开断电流次数 Rated Short-circuit Making Current	Times	20
运动部分质量 Mass of Moving Parts	Kg	0.8
机械寿命 Mechanical Endurance	Times	10000
触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	110 ± 30
额定开距下的触头反力 Counterforce of Contact at Full Stroke	N	210 ± 50
额定触头压力下的回路电阻 Circuit Resistance at Min.Rated Contact Force	μ Ω	< 20
触头允许磨损厚度 Contact Limit Erosion	mm	3
允许储存期 Storage Life	Years	20

配套的真空开关设备应满足的机械参数

Mechanical Data Of Vacuum Switch Equipped With The Interrupters

触头开距 Clearance Between Open Contacts	mm	9 ± 1
平均分闸速度 Average Opening Speed	m/s	1.1 ± 0.2
平均合闸速度 Average Closing Speed	m/s	0.7 ± 0.2
额定触头压力 Rated Contact Pressure	N	1800 ± 200
触头合闸弹跳时间 Contact Bounce Duration at Closing Operation	ms	< 2
触头合分闸不同期性 Out of Simultaneity of Contact Closing and Operation	ms	< 2
分闸触头反弹幅度 Maximum Rebound During Opening	mm	< 2

户内断路器用真空灭弧室 Vacuum Interrupter For Indoor Circuit Breakers
TD-12/630-25(2D76)

Key of Power
Electric Professional
>

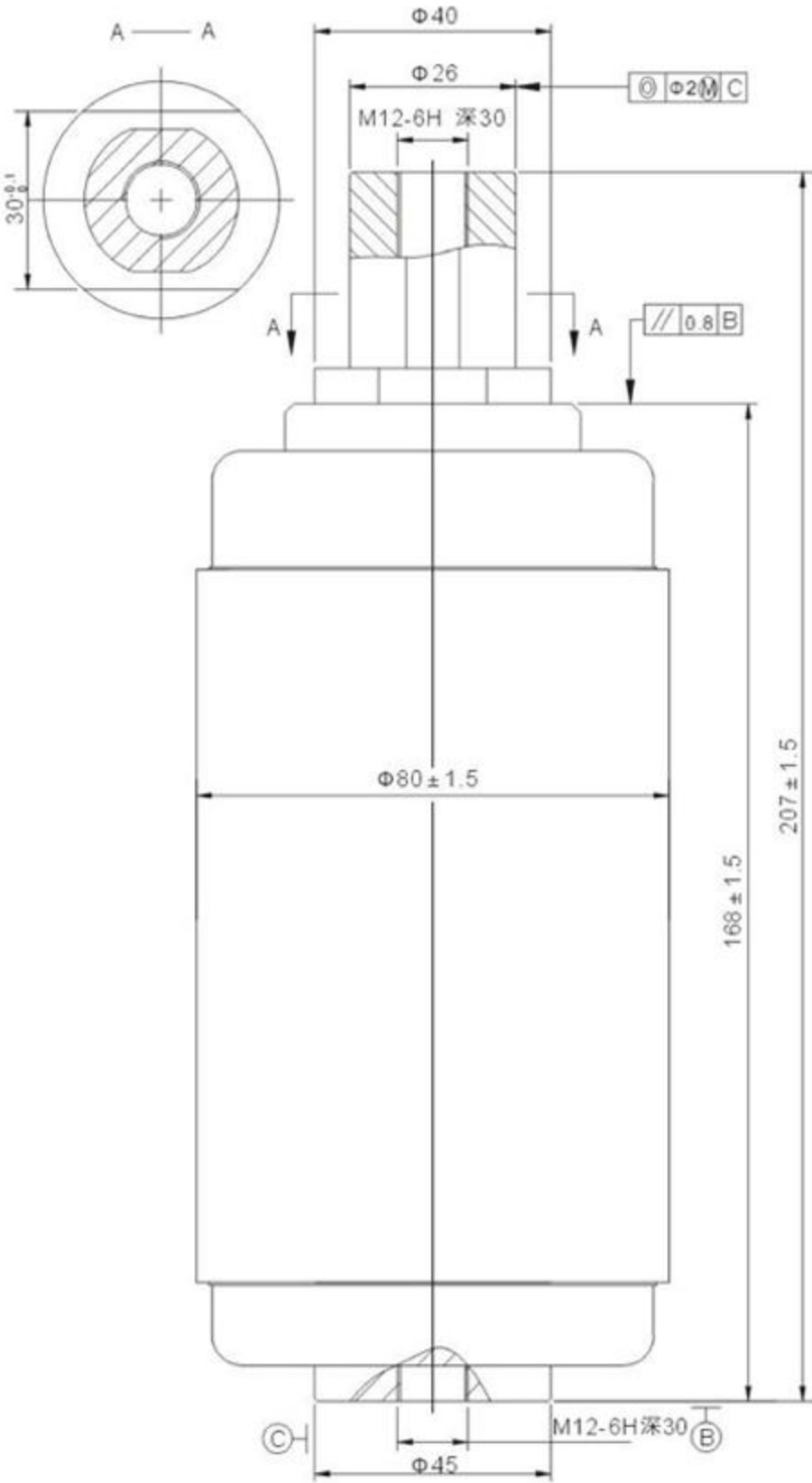


TD-12/630-25 (2D76)

户内断路器用真空灭弧室 Vacuum Interrupter For Indoor Circuit Breakers
TD-12/630-25(2D76)

Key of Power
Electric Professional
>

TD-12/630-25 (2D76)
配：固封极柱



说明

Notes

- 1、本产品符合或超过IEC62271-100以及GB1984-2003中E2级的要求。
Meets or exceeds the electrical endurance requirements of class E2 for autoreclosing duty per IEC62271-100 and GB1984-2003.
- 2、※为有需要时提供的额定参数。
※Rated characteristics to be given on request.
- 3、☆代表额定绝缘测试需要外绝缘保护如SF6气体、油或固体绝缘材料。
☆Rated insulation values require external insulation, such as SF6, oil or solid dielectric material etc.

主要参数

Main Technical Specification

额定电压 Rated Voltage	KV	12
额定电流 Rated Current	A	630
额定频率 Rated Frequency	Hz	50
额定短时(1min)工频耐受电压 Short-time power-frequency Withstand Voltage(1min)	KV	42/48 ☆
额定雷电冲击耐受电压(峰值) Rated lightning Impulse Withstand Voltage(Peak)	KV	75 ☆
额定短路开断电流 Rated Short-circuit Breaking Current	KA	25
额定峰值耐受电流 Rated Peak Withstand Current	KA	63
额定短路关合电流 Rated Short-circuit Making Current	KA	63
额定短时耐受电流 Rated Short-time Withstand Current	KA	25
额定短路持续时间 Rated Duration of Short-circ	S	4
额定单个电容器组开断电流 ※ Rated Single Capacitor Bank Breaking Current	A	400
额定背对背电容器组开断电流 ※ Rated Back to Back Capacitor Bank Breaking Current	A	400
额定短路开断电流次数 Rated Short-circuit Making Current	Times	20
运动部分质量 Mass of Moving Parts	Kg	0.75
机械寿命 Mechanical Endurance	Times	10000
触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	110 ± 30
额定开距下的触头反力 Counterforce of Contact at Full Stroke	N	190 ± 50
额定触头压力下的回路电阻 Circuit Resistance at Min.Rated Contact Force	μ Ω	< 20
触头允许磨损厚度 Contact Limit Erosion	mm	3
允许储存期 Storage Life	Years	20

配套的真空开关设备应满足的机械参数

Mechanical Data Of Vacuum Switch Equipped With The Interrupters

触头开距 Clearance Between Open Contacts	mm	9 ± 1
平均分闸速度 Average Opening Speed	m/s	1.1 ± 0.2
平均合闸速度 Average Closing Speed	m/s	0.7 ± 0.2
额定触头压力 Rated Contact Pressure	N	2200 ± 200
触头合闸弹跳时间 Contact Bounce Duration at Closing Operation	ms	< 3
触头合分闸不同期性 Out of Simultaneity of Contact Closing and Operation	ms	< 2
分闸触头反弹幅度 Maximum Rebound During Opening	mm	< 2

户内断路器用真空灭弧室 Vacuum Interrupter For Indoor Circuit Breakers
TD-12/1250-31.5(2D78)

Key of Power
Electric Professional
>

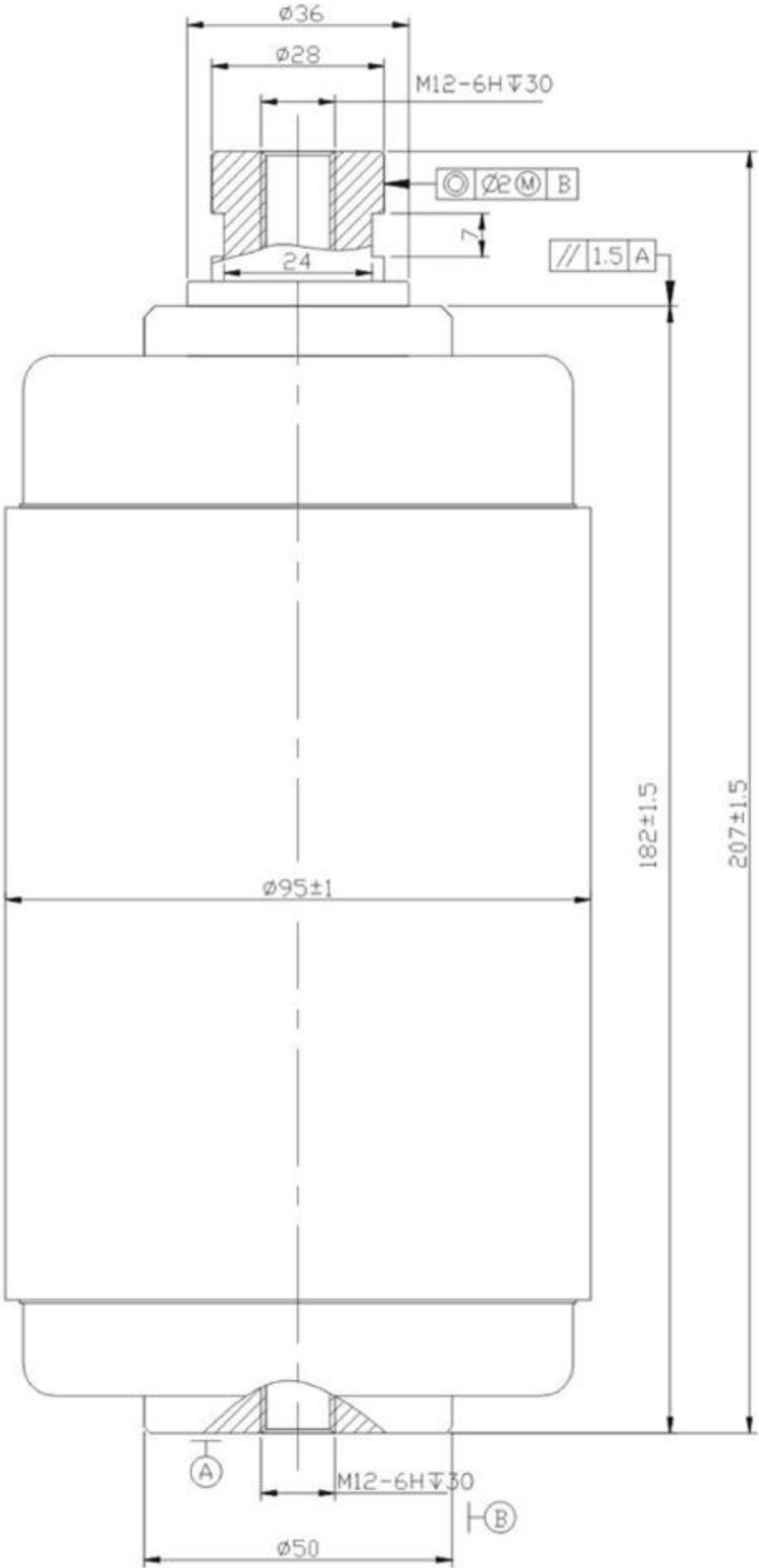


TD-12/1250-31.5 (2D78)

户内断路器用真空灭弧室 Vacuum Interrupter For Indoor Circuit Breakers
TD-12/1250-31.5(2D78)

Key of Power
Electric Professional
>

TD-12/1250-31.5 (2D78)
配：固封极柱



说明

Notes

- 1、本产品符合或超过IEC62271-100以及GB1984-2003中E2级的要求。
Meets or exceeds the electrical endurance requirements of class E2 for autoreclosing duty per IEC62271-100 and GB1984-2003.
- 2、※为有需要时提供的额定参数。
※Rated characteristics to be given on request.
- 3、☆代表额定绝缘测试需要外绝缘保护如SF6气体、油或固体绝缘材料。
☆Rated insulation values require external insulation, such as SF6, oil or solid dielectric material etc.

主要参数

Main Technical Specification

额定电压 Rated Voltage	KV	12
额定电流 Rated Current	A	1250
额定频率 Rated Frequency	Hz	50
额定短时(1min)工频耐受电压 Short-time power-frequency Withstand Voltage(1min)	KV	42/48☆
额定雷电冲击耐受电压(峰值) Rated lightning Impulse Withstand Voltage(Peak)	KV	85☆
额定短路开断电流 Rated Short-circuit Breaking Current	KA	31.5
额定峰值耐受电流 Rated Peak Withstand Current	KA	80
额定短路关合电流 Rated Short-circuit Making Current	KA	80
额定短时耐受电流 Rated Short-time Withstand Current	KA	31.5
额定短路持续时间 Rated Duration of Short-circ	S	4
额定单个电容器组开断电流※ Rated Single Capacitor Bank Breaking Current	A	400
额定背对背电容器组开断电流※ Rated Back to Back Capacitor Bank Breaking Current	A	400
额定短路开断电流次数 Rated Short-circuit Making Current	Times	20
运动部分质量 Mass of Moving Parts	Kg	1.2
机械寿命 Mechanical Endurance	Times	10000
触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	110±30
额定开距下的触头反力 Counterforce of Contact at Full Stroke	N	210±30
额定触头压力下的回路电阻 Circuit Resistance at Min.Rated Contact Force	μΩ	<15
触头允许磨损厚度 Contact Limit Erosion	mm	3
允许储存期 Storage Life	Years	20

配套的真空开关设备应满足的机械参数

Mechanical Data Of Vacuum Switch Equipped With The Interrupters

触头开距 Clearance Between Open Contacts	mm	9±1
平均分闸速度 Average Opening Speed	m/s	1.4±0.2
平均合闸速度 Average Closing Speed	m/s	0.7±0.2
额定触头压力 Rated Contact Pressure	N	3200±200
触头合闸弹跳时间 Contact Bounce Duration at Closing Operation	ms	<3
触头合分闸不同期性 Out of Simultaneity of Contact Closing and Operation	ms	<2
分闸触头反弹幅值 Maximum Rebound During Opening	mm	<2

户内断路器用真空灭弧室 Vacuum Interrupter For Indoor Circuit Breakers
TD-12/1250-25(2D57A)

Key of Power
Electric Professional
>

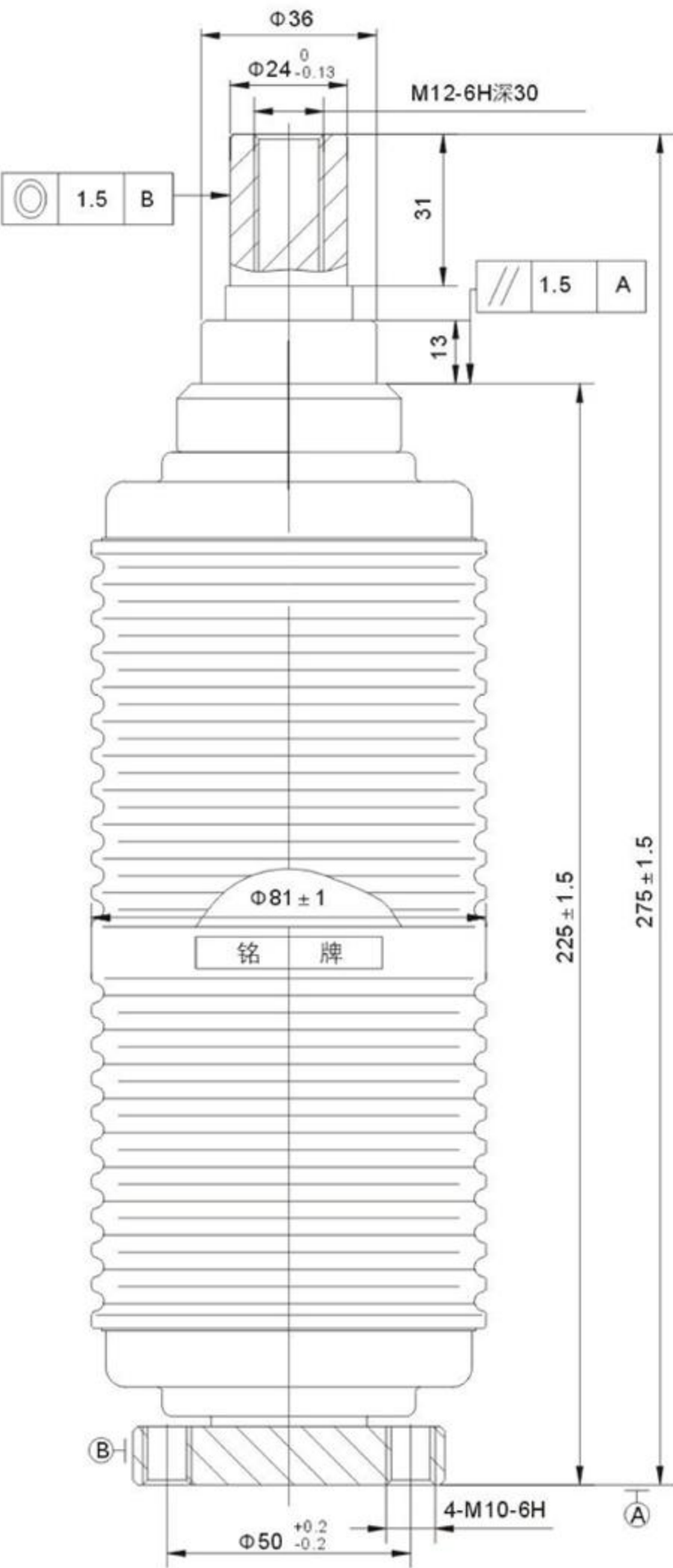


TD-12/1250-25 (2D57A)

户内断路器用真空灭弧室 Vacuum Interrupter For Indoor Circuit Breakers
TD-12/1250-25(2D57A)

Key of Power
Electric Professional
>

TD-12/1250-25 (2D57A)
配: ZN28、ZN63



说明

Notes

- 1、本产品符合或超过IEC62271-100以及GB1984-2003中E2级的要求。
Meets or exceeds the electrical endurance requirements of class E2 for autoreclosing duty per IEC62271-100 and GB1984-2003.
- 2、※为有需要时提供的额定参数。
※Rated characteristics to be given on request.
- 3、☆代表额定绝缘测试需要外绝缘保护如SF6气体、油或固体绝缘材料。
☆Rated insulation values require external insulation, such as SF6, oil or solid dielectric material etc.

主要参数

Main Technical Specification

额定电压 Rated Voltage	KV	12
额定电流 Rated Current	A	1250
额定频率 Rated Frequency	Hz	50
额定短时(1min)工频耐受电压 Short-time power-frequency Withstand Voltage(1min)	KV	48
额定雷电冲击耐受电压(峰值) Rated lightning Impulse Withstand Voltage(Peak)	KV	75 ☆
额定短路开断电流 Rated Short-circuit Breaking Current	KA	25
额定峰值耐受电流 Rated Peak Withstand Current	KA	63
额定短路关合电流 Rated Short-circuit Making Current	KA	63
额定短时耐受电流 Rated Short-time Withstand Current	KA	25
额定短路持续时间 Rated Duration of Short-circ	S	4
额定单个电容器组开断电流 ※ Rated Single Capacitor Bank Breaking Current	A	630
额定背对背电容器组开断电流 ※ Rated Back to Back Capacitor Bank Breaking Current	A	400
额定短路开断电流次数 Rated Short-circuit Making Current	Times	20
运动部分质量 Mass of Moving Parts	Kg	0.8
机械寿命 Mechanical Endurance	Times	10000
触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	90 ± 30
额定开距下的触头反力 Counterforce of Contact at Full Stroke	N	180 ± 30
额定触头压力下的回路电阻 Circuit Resistance at Min.Rated Contact Force	μ Ω	< 25
触头允许磨损厚度 Contact Limit Erosion	mm	3
允许储存期 Storage Life	Years	20

配套的真空开关设备应满足的机械参数

Mechanical Data Of Vacuum Switch Equipped With The Interrupters

触头开距 Clearance Between Open Contacts	mm	9 ± 1
平均分闸速度 Average Opening Speed	m/s	1.1 ± 0.2
平均合闸速度 Average Closing Speed	m/s	0.7 ± 0.2
额定触头压力 Rated Contact Pressure	N	2200 ± 200
触头合闸弹跳时间 Contact Bounce Duration at Closing Operation	ms	< 3
触头合分闸不同期性 Out of Simultaneity of Contact Closing and Operation	ms	< 2
分闸触头反弹幅值 Maximum Rebound During Opening	mm	< 2

户内断路器用真空灭弧室 Vacuum Interrupter For Indoor Circuit Breakers
TD-12/1250-25(2D57A1)

Key of Power
Electric Professional
>

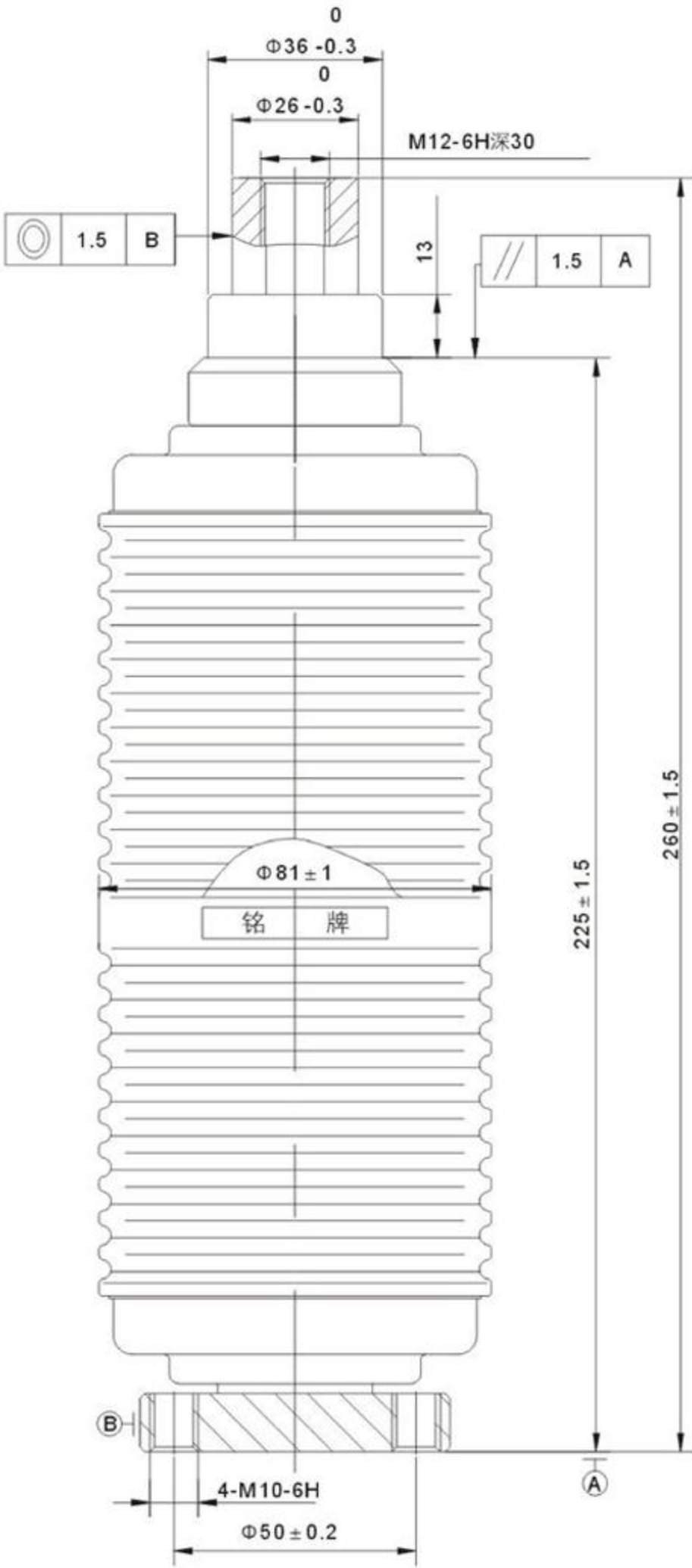


TD-12/1250-25 (2D57A1)

户内断路器用真空灭弧室 Vacuum Interrupter For Indoor Circuit Breakers
TD-12/1250-25(2D57A1)

Key of Power
Electric Professional
>

TD-12/1250-25 (2D57A1)
配: ZN28、ZN63



说明

Notes

- 1、本产品符合或超过IEC62271-100以及GB1984-2003中E2级的要求。
Meets or exceeds the electrical endurance requirements of class E2 for autoreclosing duty per IEC62271-100 and GB1984-2003.
- 2、※ 为有需要时提供的额定参数。
※ Rated characteristics to be given on request.
- 3、☆ 代表额定绝缘测试需要外绝缘保护如SF6气体、油或固体绝缘材料。
☆ Rated insulation values require external insulation, such as SF6, oil or solid dielectric material etc.

主要参数

Main Technical Specification

额定电压 Rated Voltage	KV	12
额定电流 Rated Current	A	1250
额定频率 Rated Frequency	Hz	50
额定短时(1min)工频耐受电压 Short-time power-frequency Withstand Voltage(1min)	KV	48
额定雷电冲击耐受电压(峰值) Rated lightning Impulse Withstand Voltage(Peak)	KV	75☆
额定短路开断电流 Rated Short-circuit Breaking Current	KA	25
额定峰值耐受电流 Rated Peak Withstand Current	KA	63
额定短路关合电流 Rated Short-circuit Making Current	KA	63
额定短时耐受电流 Rated Short-time Withstand Current	KA	25
额定短路持续时间 Rated Duration of Short-circ	S	4
额定单个电容器组开断电流 ※ Rated Single Capacitor Bank Breaking Current	A	630
额定背对背电容器组开断电流 ※ Rated Back to Back Capacitor Bank Breaking Current	A	400
额定短路开断电流次数 Rated Short-circuit Making Current	Times	20
运动部分质量 Mass of Moving Parts	Kg	0.7
机械寿命 Mechanical Endurance	Times	10000
触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	90 ± 30
额定开距下的触头反力 Counterforce of Contact at Full Stroke	N	180 ± 30
额定触头压力下的回路电阻 Circuit Resistance at Min. Rated Contact Force	μ Ω	< 20
触头允许磨损厚度 Contact Limit Erosion	mm	3
允许储存期 Storage Life	Years	20

配套的真空开关设备应满足的机械参数

Mechanical Data Of Vacuum Switch Equipped With The Interrupters

触头开距 Clearance Between Open Contacts	mm	9 ± 1
平均分闸速度 Average Opening Speed	m/s	1.1 ± 0.2
平均合闸速度 Average Closing Speed	m/s	0.7 ± 0.2
额定触头压力 Rated Contact Pressure	N	2200 ± 200
触头合闸弹跳时间 Contact Bounce Duration at Closing Operation	ms	< 3
触头合分闸不同期性 Out of Simultaneity of Contact Closing and Operation	ms	< 2
分闸触头反弹幅值 Maximum Rebound During Opening	mm	< 2

户内断路器用真空灭弧室 Vacuum Interrupter For Indoor Circuit Breakers
TD-12/1250-31.5(2D58A)

Key of Power
Electric Professional
>

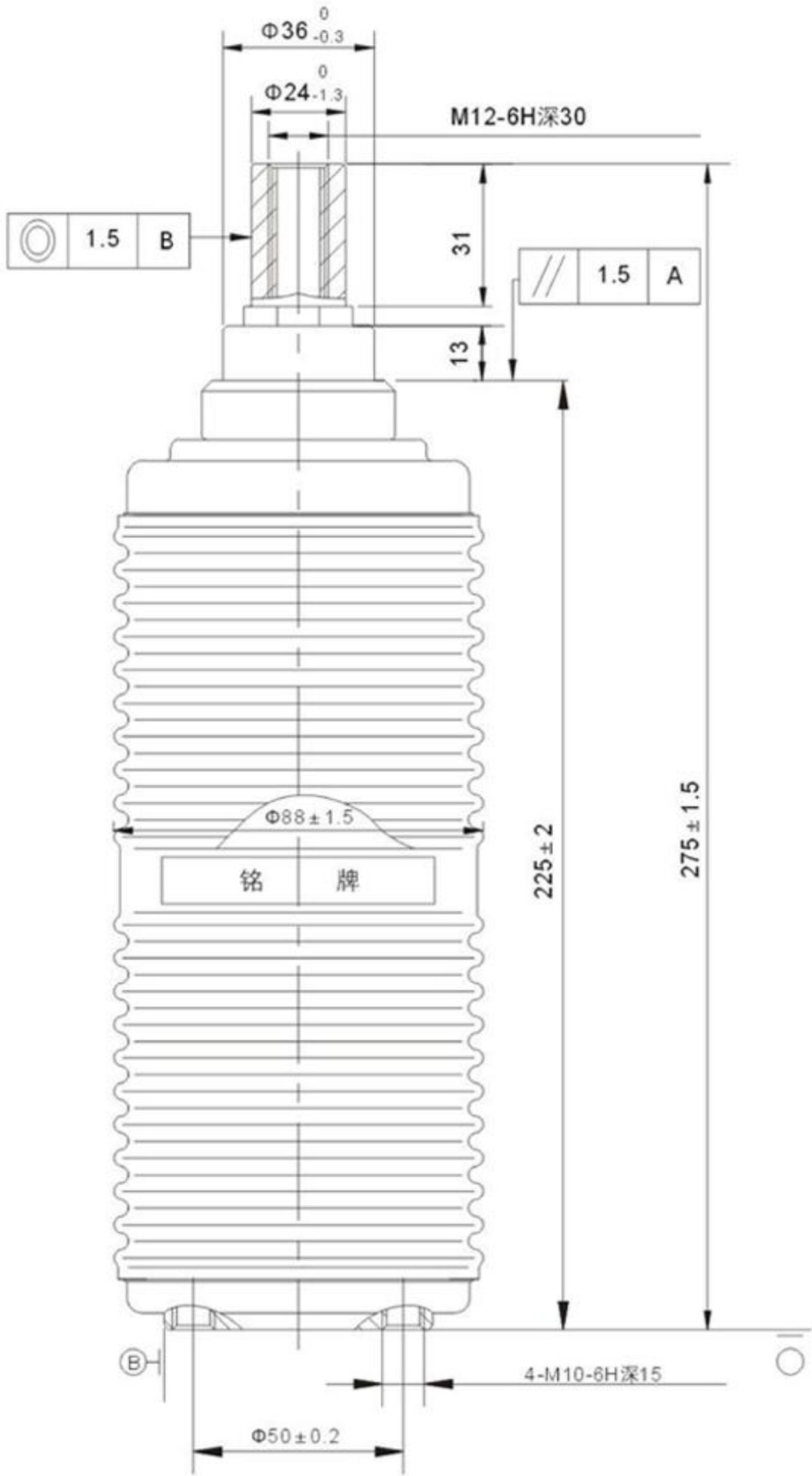


TD-12/1250-31.5 (2D58A)

户内断路器用真空灭弧室 Vacuum Interrupter For Indoor Circuit Breakers
TD-12/1250-31.5(2D58A)

Key of Power
Electric Professional
>

TD-12/1250-31.5 (2D58A)
配: ZN28、ZN63



说明

Notes

- 1、本产品符合或超过IEC62271-100以及GB1984-2003中E2级的要求。
Meets or exceeds the electrical endurance requirements of class E2 for autoreclosing duty per IEC62271-100 and GB1984-2003.
- 2、※ 为有需要时提供的额定参数。
※ Rated characteristics to be given on request.
- 3、☆ 代表额定绝缘测试需要外绝缘保护如SF6气体、油或固体绝缘材料。
☆ Rated insulation values require external insulation, such as SF6, oil or solid dielectric material etc.

主要参数

Main Technical Specification

额定电压 Rated Voltage	KV	12
额定电流 Rated Current	A	1250
额定频率 Rated Frequency	Hz	50
额定短时(1min)工频耐受电压 Short-time power-frequency Withstand Voltage(1min)	KV	48
额定雷电冲击耐受电压(峰值) Rated lightning Impulse Withstand Voltage(Peak)	KV	75☆
额定短路开断电流 Rated Short-circuit Breaking Current	KA	31.5
额定峰值耐受电流 Rated Peak Withstand Current	KA	80
额定短路关合电流 Rated Short-circuit Making Current	KA	80
额定短时耐受电流 Rated Short-time Withstand Current	KA	31.5
额定短路持续时间 Rated Duration of Short-circ	S	4
额定单个电容器组开断电流※ Rated Single Capacitor Bank Breaking Current	A	630
额定背对背电容器组开断电流※ Rated Back to Back Capacitor Bank Breaking Current	A	400
额定短路开断电流次数 Rated Short-circuit Making Current	Times	20
运动部分质量 Mass of Moving Parts	Kg	1.2
机械寿命 Mechanical Endurance	Times	10000
触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	110 ± 30
额定开距下的触头反力 Counterforce of Contact at Full Stroke	N	210 ± 30
额定触头压力下的回路电阻 Circuit Resistance at Min.Rated Contact Force	μ Ω	< 20
触头允许磨损厚度 Contact Limit Erosion	mm	3
允许储存期 Storage Life	Years	20

配套的真空开关设备应满足的机械参数

Mechanical Data Of Vacuum Switch Equipped With The Interrupters

触头开距 Clearance Between Open Contacts	mm	9 ± 1
平均分闸速度 Average Opening Speed	m/s	1.1 ± 0.2
平均合闸速度 Average Closing Speed	m/s	0.7 ± 0.2
额定触头压力 Rated Contact Pressure	N	3100 ± 200
触头合闸弹跳时间 Contact Bounce Duration at Closing Operation	ms	< 3
触头合分闸不同期性 Out of Simultaneity of Contact Closing and Operation	ms	< 2
分闸触头反弹幅值 Maximum Rebound During Opening	mm	< 2

户内断路器用真空灭弧室 Vacuum Interrupter For Indoor Circuit Breakers
TD-12/1250-31.5(2D58A1)

Key of Power
Electric Professional
>

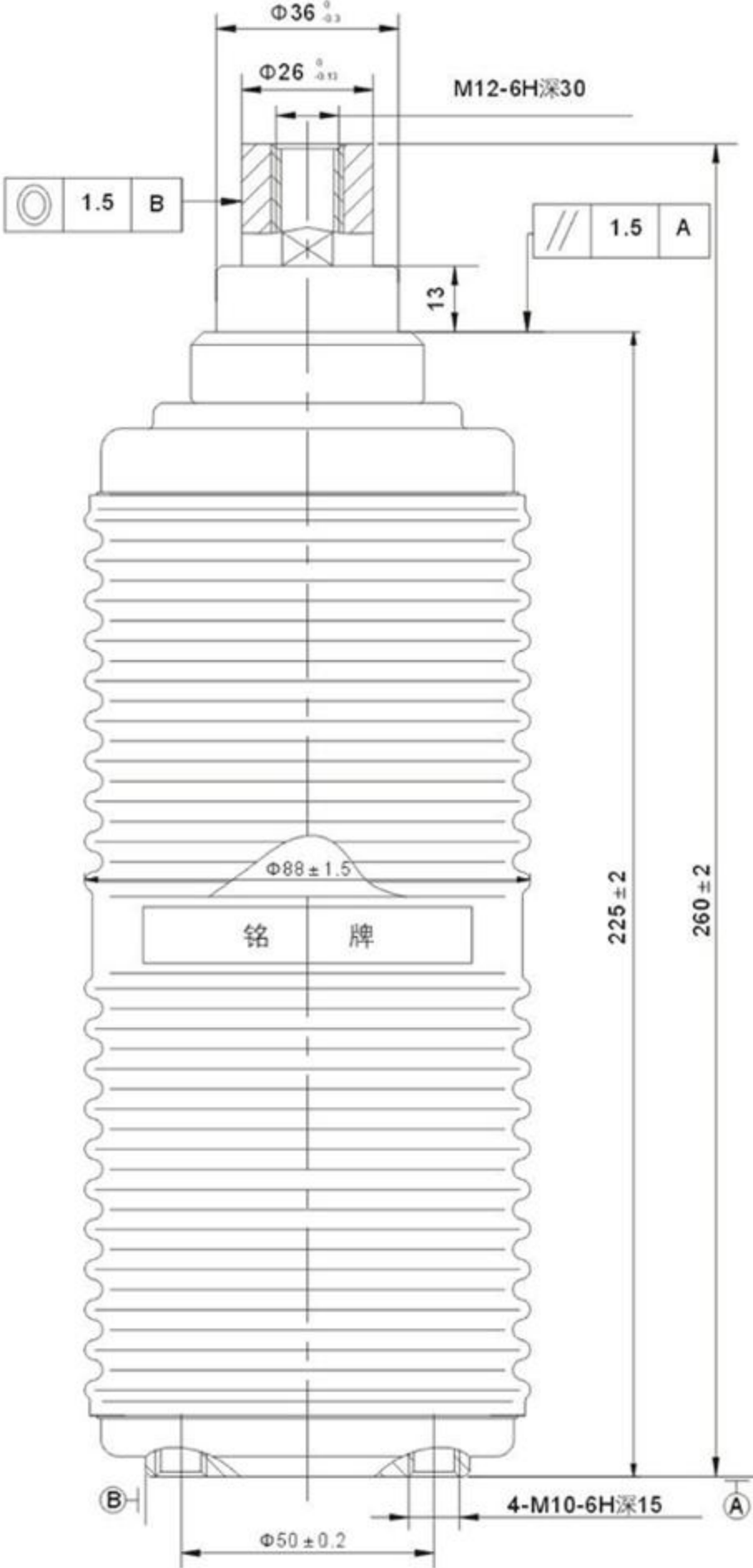


TD-12/1250-31.5 (2D58A1)

户内断路器用真空灭弧室 Vacuum Interrupter For Indoor Circuit Breakers
TD-12/1250-31.5(2D58A1)

Key of Power
Electric Professional
>

TD-12/1250-31.5 (2D58A1)
配: ZN28、ZN63



说明

Notes

- 1、本产品符合或超过IEC62271-100以及GB1984-2003中E2级的要求。
Meets or exceeds the electrical endurance requirements of class E2 for autoreclosing duty per IEC62271-100 and GB1984-2003.
- 2、※为有需要时提供的额定参数。
※Rated characteristics to be given on request.
- 3、☆代表额定绝缘测试需要外绝缘保护如SF6气体、油或固体绝缘材料。
☆Rated insulation values require external insulation, such as SF6, oil or solid dielectric material etc.

主要参数

Main Technical Specification

额定电压 Rated Voltage	KV	12
额定电流 Rated Current	A	1250
额定频率 Rated Frequency	Hz	50
额定短时(1min)工频耐受电压 Short-time power-frequency Withstand Voltage(1min)	KV	48
额定雷电冲击耐受电压(峰值) Rated lightning Impulse Withstand Voltage(Peak)	KV	75☆
额定短路开断电流 Rated Short-circuit Breaking Current	KA	31.5
额定峰值耐受电流 Rated Peak Withstand Current	KA	80
额定短路关合电流 Rated Short-circuit Making Current	KA	80
额定短时耐受电流 Rated Short-time Withstand Current	KA	31.5
额定短路持续时间 Rated Duration of Short-circ	S	4
额定单个电容器组开断电流※ Rated Single Capacitor Bank Breaking Current	A	630
额定背对背电容器组开断电流※ Rated Back to Back Capacitor Bank Breaking Current	A	400
额定短路开断电流次数 Rated Short-circuit Making Current	Times	20
运动部分质量 Mass of Moving Parts	Kg	1.1
机械寿命 Mechanical Endurance	Times	10000
触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	110±30
额定开距下的触头反力 Counterforce of Contact at Full Stroke	N	210±30
额定触头压力下的回路电阻 Circuit Resistance at Min Rated Contact Force	μΩ	<20
触头允许磨损厚度 Contact Limit Erosion	mm	3
允许储存期 Storage Life	Years	20

配套的真空开关设备应满足的机械参数

Mechanical Data Of Vacuum Switch Equipped With The Interrupters

触头开距 Clearance Between Open Contacts	mm	9±1
平均分闸速度 Average Opening Speed	m/s	1.1±0.2
平均合闸速度 Average Closing Speed	m/s	0.7±0.2
额定触头压力 Rated Contact Pressure	N	3100±200
触头合闸弹跳时间 Contact Bounce Duration at Closing Operation	ms	<3
触头合分闸不同期性 Out of Simultaneity of Contact Closing and Operation	ms	<2
分闸触头反弹幅值 Maximum Rebound During Opening	mm	<2

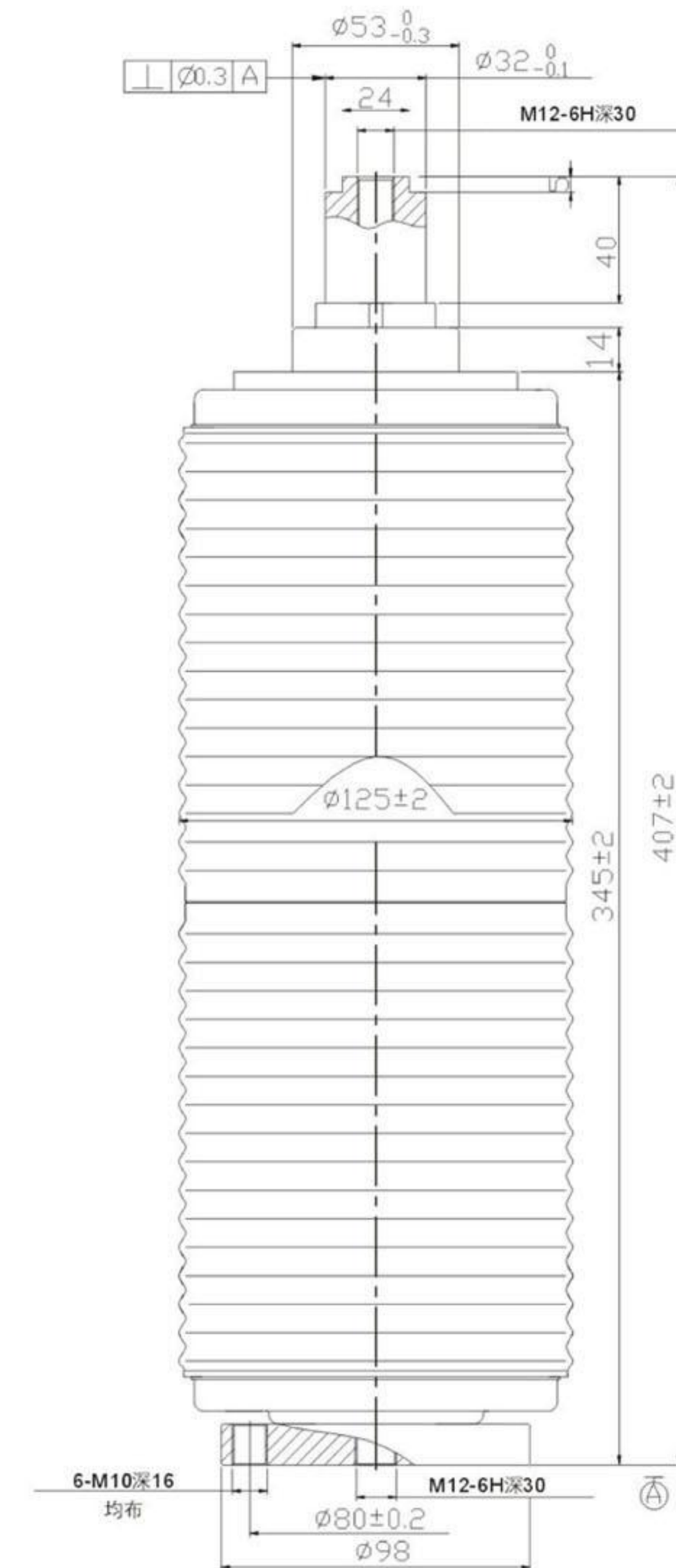
户内断路器用真空灭弧室 Vacuum Interrupter For Indoor Circuit Breakers

TD-40.5/1250-31.5 TD-40.5/1600-31.5(4D58)

Key of Power
Electric Professional
>TD-40.5/1250-31.5 (4D58)
TD-40.5/1600-31.5

户内断路器用真空灭弧室 Vacuum Interrupter For Indoor Circuit Breakers

TD-40.5/1250-31.5 TD-40.5/1600-31.5(4D58)

Key of Power
Electric Professional
>TD-40.5/1250-31.5
TD-40.5/1600-31.5 (4D58)
配: ZN85

说明

Notes

- 1、本产品符合或超过IEC62271-100以及GB1984-2003中E2级的要求。
Meets or exceeds the electrical endurance requirements of class E2 for autoreclosing duty per IEC62271-100 and GB1984-2003.
- 2、※ 为有需要时提供的额定参数。
※ Rated characteristics to be given on request.
- 3、☆ 代表额定绝缘测试需要外绝缘保护如SF6气体、油或固体绝缘材料。
☆ Rated insulation values require external insulation, such as SF6, oil or solid dielectric material etc.

主要参数

Main Technical Specification

额定电压 Rated Voltage	KV	40.5
额定电流 Rated Current	A	1250/1600
额定频率 Rated Frequency	Hz	50
额定短时(1min)工频耐受电压 Short-time power-frequency Withstand Voltage(1min)	KV	95
额定雷电冲击耐受电压(峰值) Rated lightning Impulse Withstand Voltage(Peak)	KV	185☆
额定短路开断电流 Rated Short-circuit Breaking Current	KA	31.5
额定峰值耐受电流 Rated Peak Withstand Current	KA	80
额定短路关合电流 Rated Short-circuit Making Current	KA	80
额定短时耐受电流 Rated Short-time Withstand Current	KA	31.5
额定短路持续时间 Rated Duration of Short-circ	S	4
额定单个电容器组开断电流※ Rated Single Capacitor Bank Breaking Current	A	400
额定背对背电容器组开断电流※ Rated Back to Back Capacitor Bank Breaking Current	A	400
额定短路开断电流次数 Rated Short-circuit Making Current	Times	20
运动部分质量 Mass of Moving Parts	Kg	2.7
机械寿命 Mechanical Endurance	Times	10000
触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	210±50
额定开距下的触头反力 Counterforce of Contact at Full Stroke	N	320±30
额定触头压力下的回路电阻 Circuit Resistance at Min.Rated Contact Force	μΩ	<20
触头允许磨损厚度 Contact Limit Erosion	mm	3
允许储存期 Storage Life	Years	20

配套的真空开关设备应满足的机械参数

Mechanical Data Of Vacuum Switch Equipped With The Interrupters

触头开距 Clearance Between Open Contacts	mm	22±2
平均分闸速度 Average Opening Speed	m/s	1.6±0.2
平均合闸速度 Average Closing Speed	m/s	1.3±0.2
额定触头压力 Rated Contact Pressure	N	3200±200
触头合闸弹跳时间 Contact Bounce Duration at Closing Operation	ms	<3
触头合分闸不同期性 Out of Simultaneity of Contact Closing and Operation	ms	<2
分闸触头反弹幅值 Maximum Rebound During Opening	mm	<2

户外断路器用真空灭弧室 Vacuum Interrupter For Outdoor Circuit Breakers
TD-12/630-25(2D85)

Key of Power
Electric Professional
>

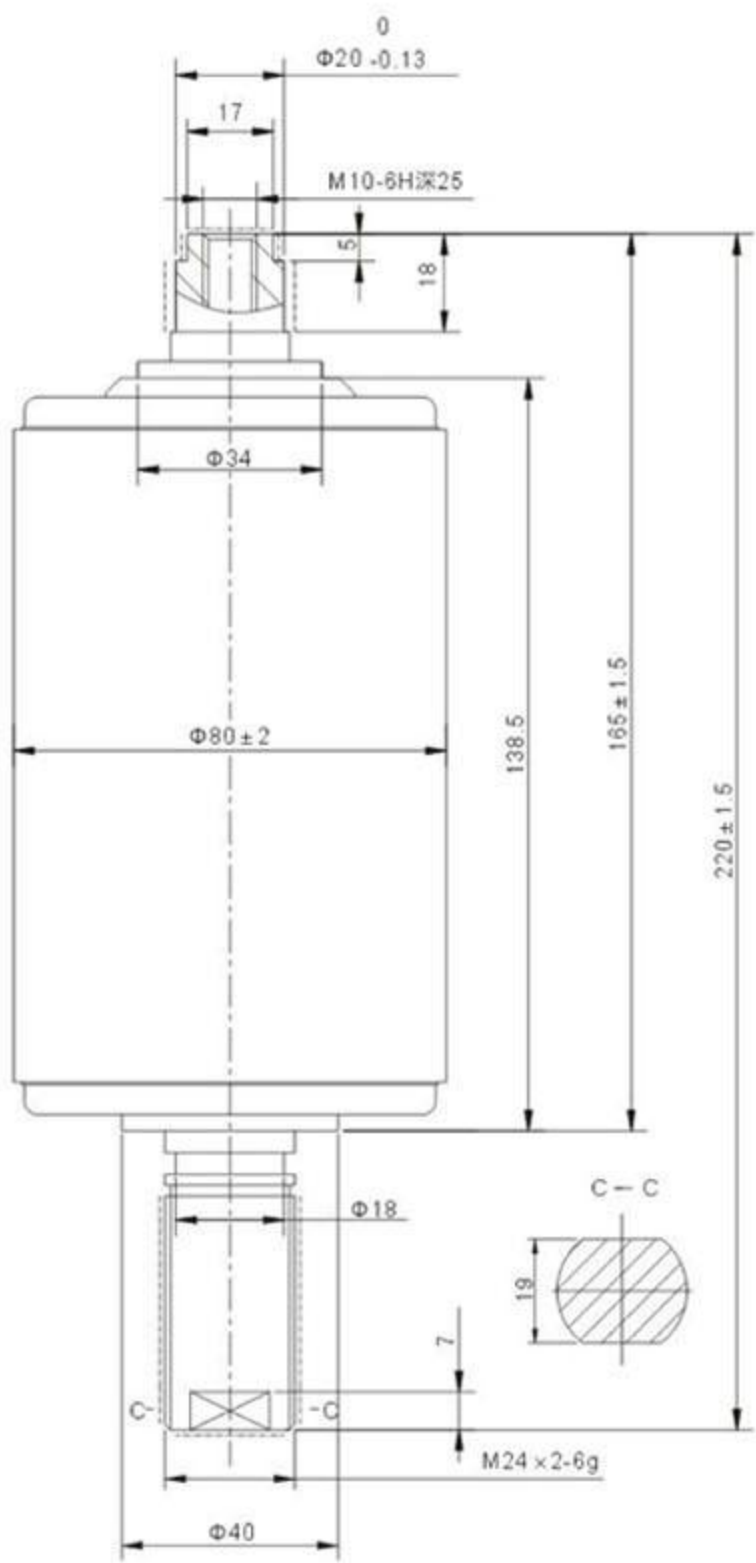


TD-12/630-25 (2D85)

户外断路器用真空灭弧室 Vacuum Interrupter For Outdoor Circuit Breakers
TD-12/630-25(2D85)

Key of Power
Electric Professional
>

TD-12/630-25 (2D85)
配: ZW32



说明

Notes

- 1、本产品符合或超过IEC62271-100以及GB1984-2003中E2级的要求。
Meets or exceeds the electrical endurance requirements of class E2 for autoreclosing duty per IEC62271-100 and GB1984-2003.
- 2、※为有需要时提供的额定参数。
※Rated characteristics to be given on request.
- 3、☆代表额定绝缘测试需要外绝缘保护如SF6气体、油或固体绝缘材料。
☆Rated insulation values require external insulation, such as SF6, oil or solid dielectric material etc.

主要参数

Main Technical Specification

额定电压 Rated Voltage	KV	12
额定电流 Rated Current	A	630
额定频率 Rated Frequency	Hz	50
额定短时(1min)工频耐受电压 Short-time power-frequency Withstand Voltage(1min)	KV	42/48☆
额定雷电冲击耐受电压(峰值) Rated lightning Impulse Withstand Voltage(Peak)	KV	75☆
额定短路开断电流 Rated Short-circuit Breaking Current	KA	25
额定峰值耐受电流 Rated Peak Withstand Current	KA	63
额定短路关合电流 Rated Short-circuit Making Current	KA	63
额定短时耐受电流 Rated Short-time Withstand Current	KA	25
额定短路持续时间 Rated Duration of Short-circ	S	4
额定单个电容器组开断电流※ Rated Single Capacitor Bank Breaking Current	A	630
额定背对背电容器组开断电流※ Rated Back to Back Capacitor Bank Breaking Current	A	400
额定短路开断电流次数 Rated Short-circuit Making Current	Times	20
运动部分质量 Mass of Moving Parts	Kg	0.6
机械寿命 Mechanical Endurance	Times	10000
触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	80±30
额定开距下的触头反力 Counterforce of Contact at Full Stroke	N	130±30
额定触头压力下的回路电阻 Circuit Resistance at Min.Rated Contact Force	μΩ	<20
触头允许磨损厚度 Contact Limit Erosion	mm	3
允许储存期 Storage Life	Years	20

配套的真空开关设备应满足的机械参数

Mechanical Data Of Vacuum Switch Equipped With The Interrupters

触头开距 Clearance Between Open Contacts	mm	9±1
平均分闸速度 Average Opening Speed	m/s	1.1±0.2
平均合闸速度 Average Closing Speed	m/s	0.7±0.2
额定触头压力 Rated Contact Pressure	N	1800±200
触头合闸弹跳时间 Contact Bounce Duration at Closing Operation	ms	<3
触头合分闸不同期性 Out of Simultaneity of Contact Closing and Operation	ms	<2
分闸触头反弹幅值 Maximum Rebound During Opening	mm	<2

户外断路器用真空灭弧室 Vacuum Interrupter For Outdoor Circuit Breakers
TD-12/630-25(2D85包胶)

Key of Power
Electric Professional
>

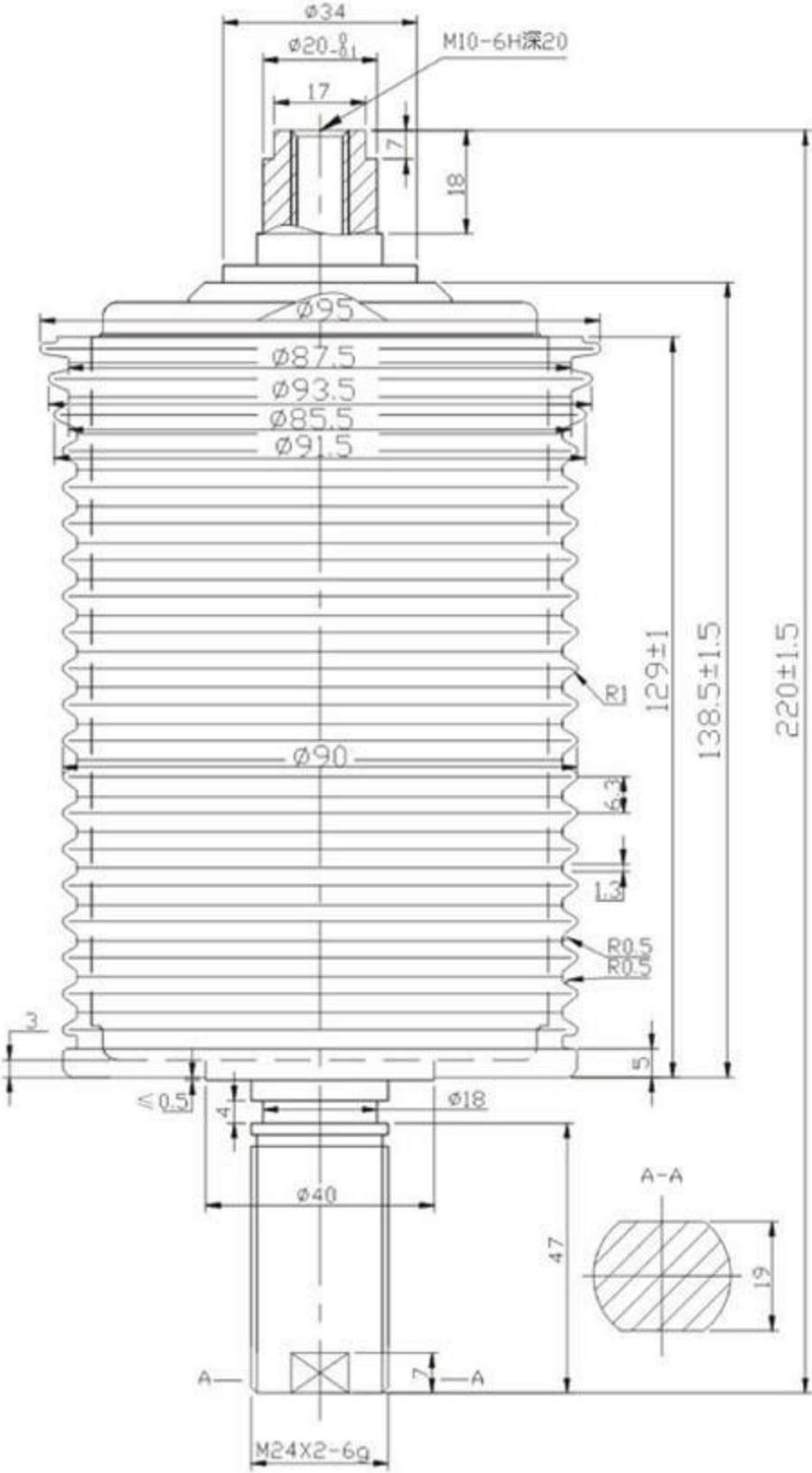


TD-12/630-25 (2D85包胶)

户外断路器用真空灭弧室 Vacuum Interrupter For Outdoor Circuit Breakers
TD-12/630-25(2D85包胶)

Key of Power
Electric Professional
>

TD-12/630-25 (2D85包胶)
配: ZW32



说明
Notes

- 1、本产品符合或超过IEC62271-100以及GB1984-2003中E2级的要求。
Meets or exceeds the electrical endurance requirements of class E2 for autoreclosing duty per IEC62271-100 and GB1984-2003.
- 2、※为有需要时提供的额定参数。
※Rated characteristics to be given on request.
- 3、☆代表额定绝缘测试需要外绝缘保护如SF6气体、油或固体绝缘材料。
☆Rated insulation values require external insulation, such as SF6, oil or solid dielectric material etc.

主要参数

Main Technical Specification

额定电压 Rated Voltage	KV	12
额定电流 Rated Current	A	630
额定频率 Rated Frequency	Hz	50
额定短时(1min)工频耐受电压 Short-time power-frequency Withstand Voltage(1min)	KV	48
额定雷电冲击耐受电压(峰值) Rated lightning Impulse Withstand Voltage(Peak)	KV	75☆
额定短路开断电流 Rated Short-circuit Breking Current	KA	25
额定峰值耐受电流 Rated Peak Withstand Current	KA	63
额定短路关合电流 Rated Short-circuit Making Current	KA	63
额定短时耐受电流 Rated Short-time Withstand Current	KA	25
额定短路持续时间 Rated Duration of Short-circ	S	4
额定单个电容器组开断电流※ Rated Single Capacitor Bank Breaking Current	A	630
额定背对背电容器组开断电流※ Rated Back to Back Capacitor Bank Breaking Current	A	400
额定短路开断电流次数 Rated Short-circuit Making Current	Times	30
运动部分质量 Mass of Moving Parts	Kg	0.6
机械寿命 Mechanical Endurance	Times	10000
触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	80±30
额定开距下的触头反力 Counterforce of Contact at Full Stroke	N	130±30
额定触头压力下的回路电阻 Circuit Resistance at Min.Rated Contact Force	μΩ	<20
触头允许磨损厚度 Contact Limit Erosion	mm	3
允许储存期 Storage Life	Years	20

配套的真空开关设备应满足的机械参数

Mechanical Data Of Vacuum Switch Equipped With The Interrupters

触头开距 Clearance Between Open Contacts	mm	9±1
平均分闸速度 Average Opening Speed	m/s	1.1±0.2
平均合闸速度 Average Closing Speed	m/s	0.7±0.2
额定触头压力 Rated Contact Pressure	N	1800±200
触头合闸弹跳时间 Contact Bounce Duration at Closing Operation	ms	<3
触头合分闸不同期性 Out of Simultaneity of Contact Closing and Operation	ms	<2
分闸触头反弹幅值 Maximum Rebound During Opening	mm	<2

户外断路器用真空灭弧室 Vacuum Interrupter For Outdoor Circuit Breakers
TD-12/1250-25(2D85E)

Key of Power
Electric Professional
>

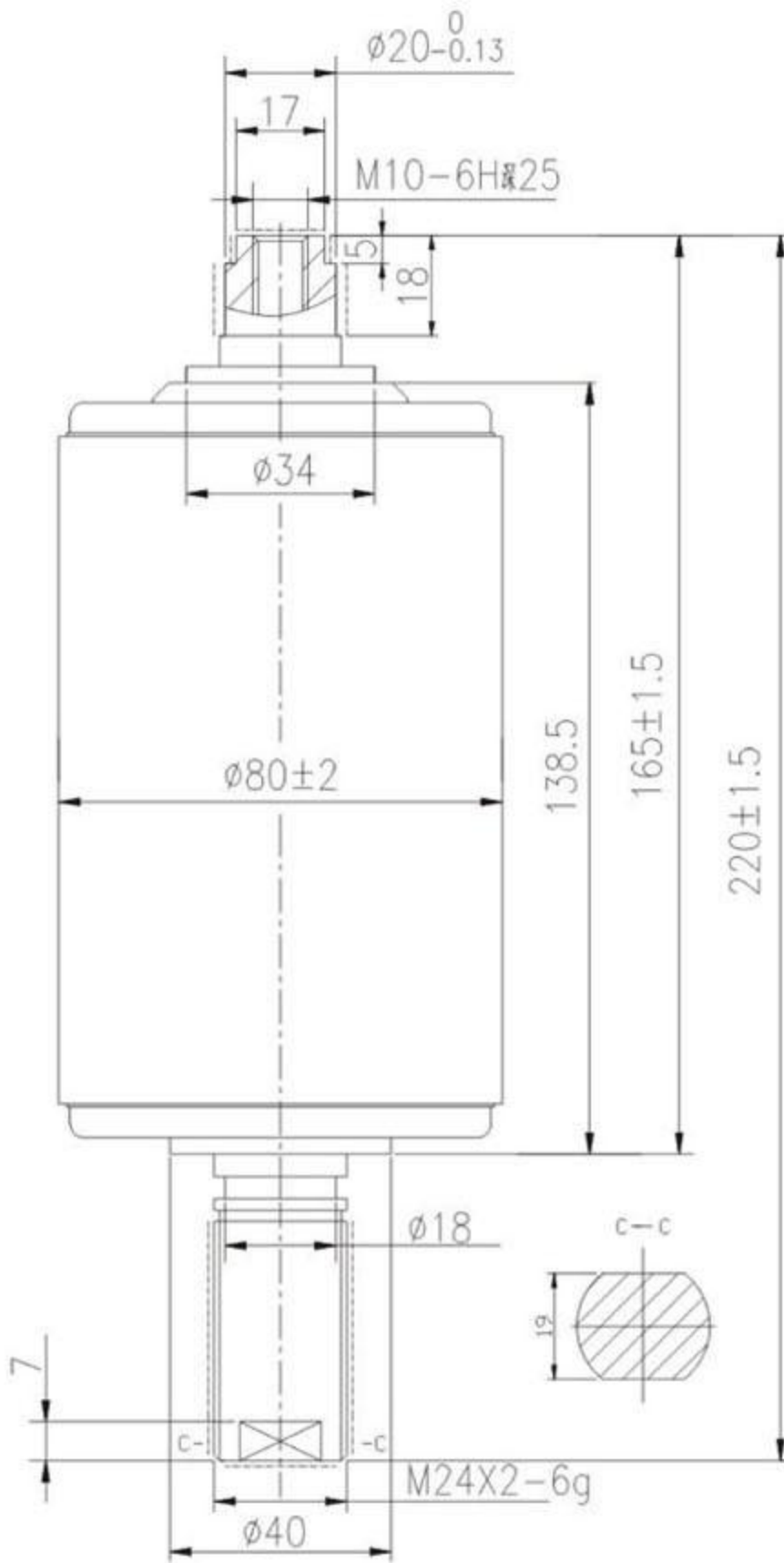


TD-12/1250-25 (2D85E)

户外断路器用真空灭弧室 Vacuum Interrupter For Outdoor Circuit Breakers
TD-12/1250-25(2D85E)

Key of Power
Electric Professional
>

TD-12/1250-25 (2D85E)
配: ZW32



说明

Notes

- 1、本产品符合或超过IEC62271-100以及GB1984-2003中E2级的要求。
Meets or exceeds the electrical endurance requirements of class E2 for autoreclosing duty per IEC62271-100 and GB1984-2003.
- 2、※ 为有需要时提供的额定参数。
※ Rated characteristics to be given on request.
- 3、☆ 代表额定绝缘测试需要外绝缘保护如SF6气体、油或固体绝缘材料。
☆ Rated insulation values require external insulation, such as SF6, oil or solid dielectric material etc.

主要参数

Main Technical Specification

额定电压 Rated Voltage	KV	12
额定电流 Rated Current	A	1250
额定频率 Rated Frequency	Hz	50
额定短时(1min)工频耐受电压 Short-time power-frequency Withstand Voltage(1min)	KV	42/48☆
额定雷电冲击耐受电压(峰值) Rated lightning Impulse Withstand Voltage(Peak)	KV	75☆
额定短路开断电流 Rated Short-circuit Breknging Current	KA	25
额定峰值耐受电流 Rated Peak Withstand Current	KA	63
额定短路关合电流 Rated Short-circuit Making Current	KA	63
额定短时耐受电流 Rated Short-time Withstand Current	KA	25
额定短路持续时间 Rated Duration of Short-circ	S	4
额定单个电容器组开断电流※ Rated Single Capacitor Bank Breaking Current	A	630
额定背对背电容器组开断电流※ Rated Back to Back Capacitor Bank Breaking Current	A	400
额定短路开断电流次数 Rated Short-circuit Making Current	Times	20
运动部分质量 Mass of Moving Parts	Kg	0.7
机械寿命 Mechanical Endurance	Times	10000
触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	110±30
额定开距下的触头反力 Counterforce of Contact at Full Stroke	N	190±30
额定触头压力下的回路电阻 Circuit Resistance at Min Rated Contact Force	μΩ	<20
触头允许磨损厚度 Contact Limit Erosion	mm	3
允许储存期 Storage Life	Years	20

配套的真空开关设备应满足的机械参数

Mechanical Data Of Vacuum Switch Equipped With The Interrupters

触头开距 Clearance Between Open Contacts	mm	9±1
平均分闸速度 Average Opening Speed	m/s	1.1±0.2
平均合闸速度 Average Closing Speed	m/s	0.7±0.2
额定触头压力 Rated Contact Pressure	N	1800±200
触头合闸弹跳时间 Contact Bounce Duration at Closing Operation	ms	<3
触头合分闸不同期性 Out of Simultaneity of Contact Closing and Operation	ms	<2
分闸触头反弹幅值 Maximum Rebound During Opening	mm	<2

户外断路器用真空灭弧室 Vacuum Interrupter For Outdoor Circuit Breakers
TD-12/1250-25(2D85E包胶)

Key of Power
Electric Professional
>

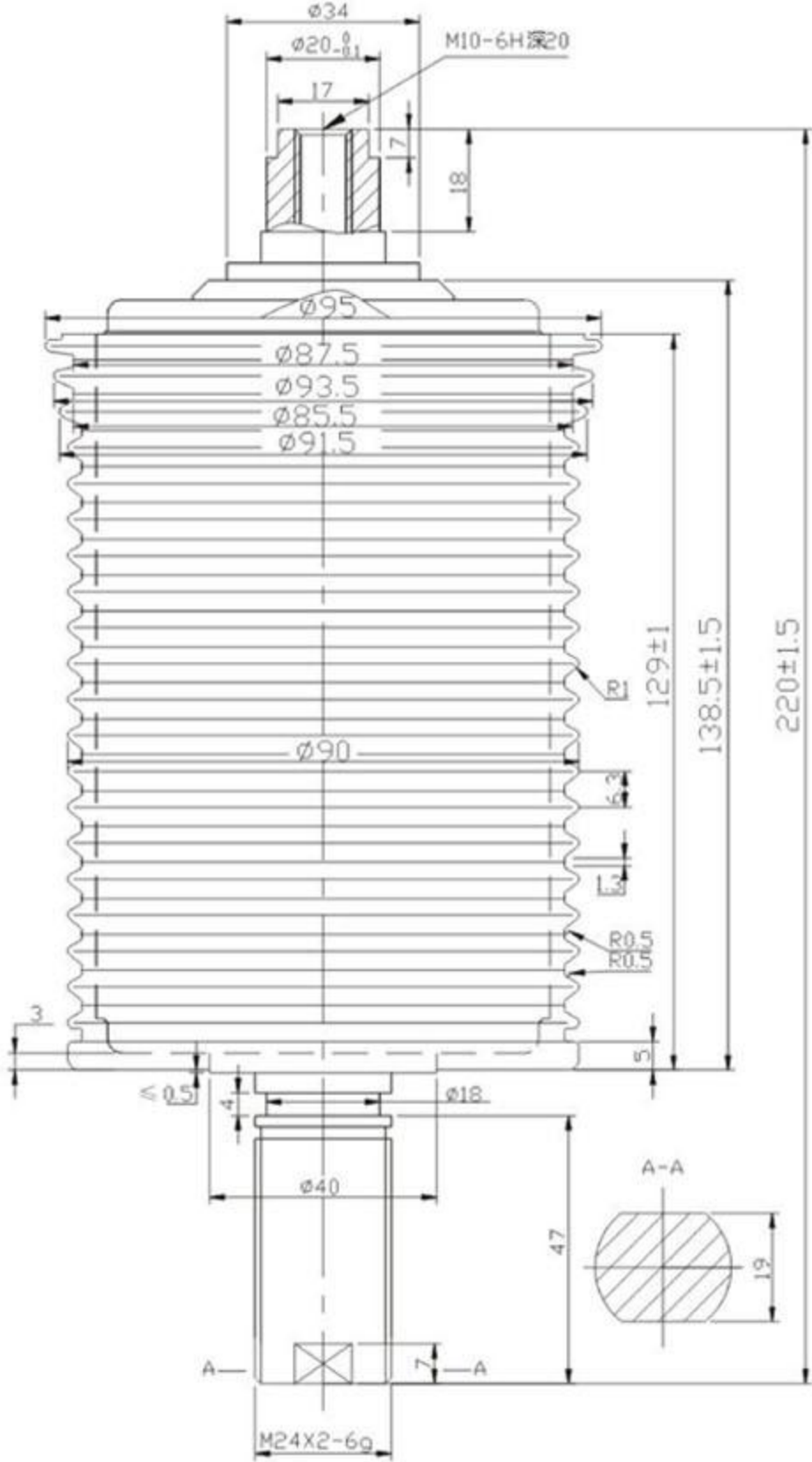


TD-12/1250-25 (2D85E包胶)

户外断路器用真空灭弧室 Vacuum Interrupter For Outdoor Circuit Breakers
TD-12/1250-25(2D85E包胶)

Key of Power
Electric Professional
>

TD-12/1250-25 (2D85E包胶)
配: ZW32



说明
Notes

- 1、本产品符合或超过IEC62271-100以及GB1984-2003中E2级的要求。
Meets or exceeds the electrical endurance requirements of class E2 for autoreclosing duty per IEC62271-100 and GB1984-2003.
- 2、※ 为有需要时提供的额定参数。
※ Rated characteristics to be given on request.
- 3、☆ 代表额定绝缘测试需要外绝缘保护如SF6气体、油或固体绝缘材料。
☆ Rated insulation values require external insulation, such as SF6, oil or solid dielectric material etc.

主要参数

Main Technical Specification

额定电压 Rated Voltage	KV	12
额定电流 Rated Current	A	1250
额定频率 Rated Frequency	Hz	50
额定短时(1min)工频耐受电压 Short-time power-frequency Withstand Voltage(1min)	KV	48
额定雷电冲击耐受电压(峰值) Rated lightning Impulse Withstand Voltage(Peak)	KV	75 ☆
额定短路开断电流 Rated Short-circuit Breknig Current	KA	25
额定峰值耐受电流 Rated Peak Withstand Current	KA	63
额定短路关合电流 Rated Short-circuit Making Current	KA	63
额定短时耐受电流 Rated Short-time Withstand Current	KA	25
额定短路持续时间 Rated Duration of Short-circ	S	4
额定单个电容器组开断电流 ※ Rated Single Capacitor Bank Breaking Current	A	630
额定背对背电容器组开断电流 ※ Rated Back to Back Capacitor Bank Breaking Current	A	400
额定短路开断电流次数 Rated Short-circuit Making Current	Times	20
运动部分质量 Mass of Moving Parts	Kg	0.7
机械寿命 Mechanical Endurance	Times	10000
触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	110 ± 30
额定开距下的触头反力 Counterforce of Contact at Full Stroke	N	190 ± 30
额定触头压力下的回路电阻 Circuit Resistance at Min.Rated Contact Force	μ Ω	< 20
触头允许磨损厚度 Contact Limit Erosion	mm	3
允许储存期 Storage Life	Years	20

配套的真空开关设备应满足的机械参数

Mechanical Data Of Vacuum Switch Equipped With The Interrupters

触头开距 Clearance Between Open Contacts	mm	9 ± 1
平均分闸速度 Average Opening Speed	m/s	1.1 ± 0.2
平均合闸速度 Average Closing Speed	m/s	0.7 ± 0.2
额定触头压力 Rated Contact Pressure	N	1800 ± 200
触头合闸弹跳时间 Contact Bounce Duration at Closing Operation	ms	< 3
触头合分闸不同期性 Out of Simultaneity of Contact Closing and Operation	ms	< 2
分闸触头反弹幅值 Maximum Rebound During Opening	mm	< 2

户外断路器用真空灭弧室 Vacuum Interrupter For Outdoor Circuit Breakers
TD-12/630-25(2D88)

Key of Power
Electric Professional
>

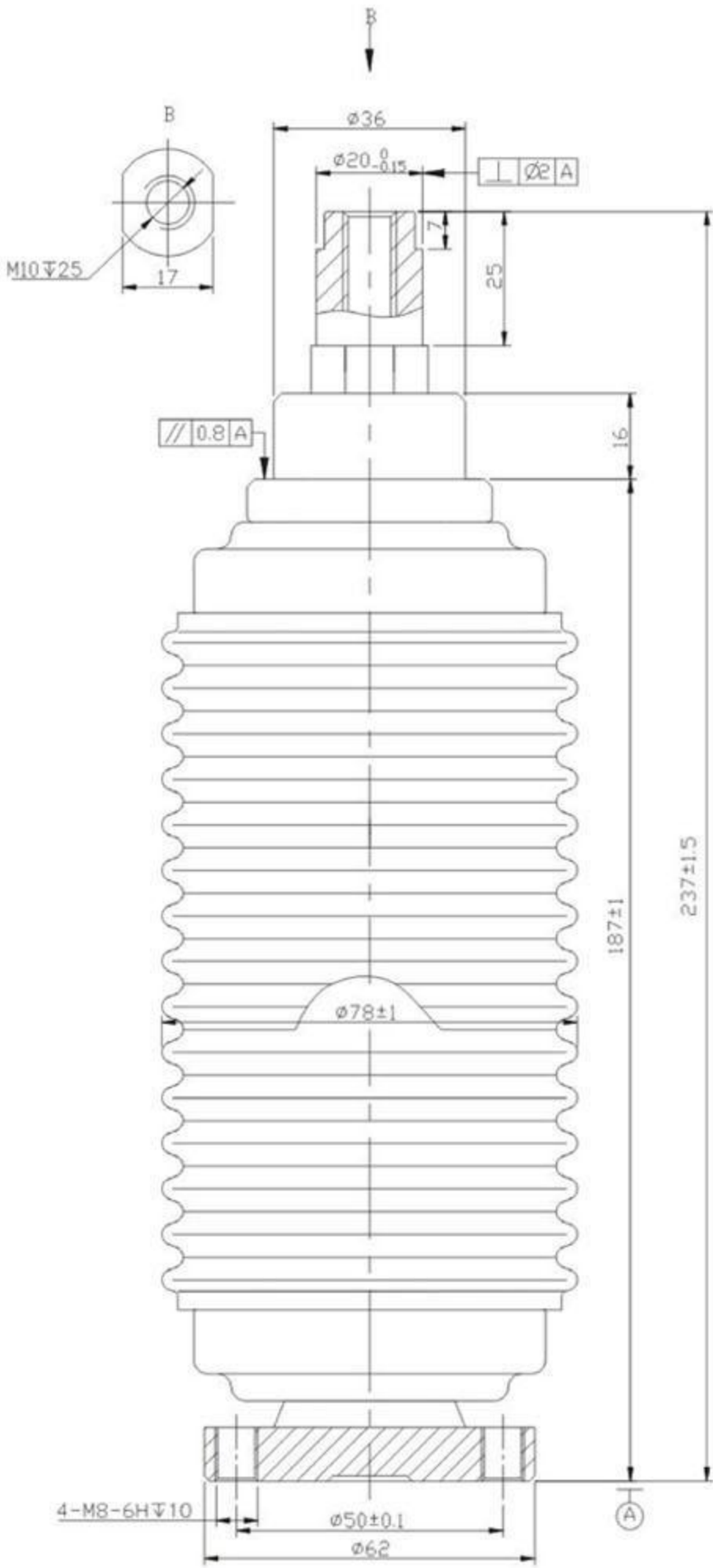


TD-12/630-25 (2D88)

户外断路器用真空灭弧室 Vacuum Interrupter For Outdoor Circuit Breakers
TD-12/630-25(2D88)

Key of Power
Electric Professional
>

TD-12/630-25 (2D88)
配: ZW8



说明

Notes

- 1、本产品符合或超过IEC62271-100以及GB1984-2003中E2级的要求。
Meets or exceeds the electrical endurance requirements of class E2 for autoreclosing duty per IEC62271-100 and GB1984-2003.
- 2、※为有需要时提供的额定参数。
※Rated characteristics to be given on request.
- 3、☆代表额定绝缘测试需要外绝缘保护如SF6气体、油或固体绝缘材料。
☆Rated insulation values require external insulation, such as SF6, oil or solid dielectric material etc.

主要参数

Main Technical Specification

额定电压 Rated Voltage	KV	12
额定电流 Rated Current	A	630
额定频率 Rated Frequency	Hz	50
额定短时(1min)工频耐受电压 Short-time power-frequency Withstand Voltage(1min)	KV	48
额定雷电冲击耐受电压(峰值) Rated lightning Impulse Withstand Voltage(Peak)	KV	75☆
额定短路开断电流 Rated Short-circuit Breaking Current	KA	25
额定峰值耐受电流 Rated Peak Withstand Current	KA	63
额定短路关合电流 Rated Short-circuit Making Current	KA	63
额定短时耐受电流 Rated Short-time Withstand Current	KA	63
额定短路持续时间 Rated Duration of Short-circ	S	4
额定单个电容器组开断电流※ Rated Single Capacitor Bank Breaking Current	A	630
额定背对背电容器组开断电流※ Rated Back to Back Capacitor Bank Breaking Current	A	400
额定短路开断电流次数 Rated Short-circuit Making Current	Times	20
运动部分质量 Mass of Moving Parts	Kg	0.65
机械寿命 Mechanical Endurance	Times	10000
触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	80±30
额定开距下的触头反力 Counterforce of Contact at Full Stroke	N	130±30
额定触头压力下的回路电阻 Circuit Resistance at Min.Rated Contact Force	μΩ	<20
触头允许磨损厚度 Contact Limit Erosion	mm	3
允许储存期 Storage Life	Years	20

配套的真空开关设备应满足的机械参数

Mechanical Data Of Vacuum Switch Equipped With The Interrupters

触头开距 Clearance Between Open Contacts	mm	9±1
平均分闸速度 Average Opening Speed	m/s	1.1±0.2
平均合闸速度 Average Closing Speed	m/s	0.7±0.2
额定触头压力 Rated Contact Pressure	N	1800±200
触头合闸弹跳时间 Contact Bounce Duration at Closing Operation	ms	<3
触头合分闸不同期性 Out of Simultaneity of Contact Closing and Operation	ms	<2
分闸触头反弹幅值 Maximum Rebound During Opening	mm	<2

户外断路器用真空灭弧室 Vacuum Interrupter For Outdoor Circuit Breakers
TD-12/630-25(2D89)

Key of Power
Electric Professional
>

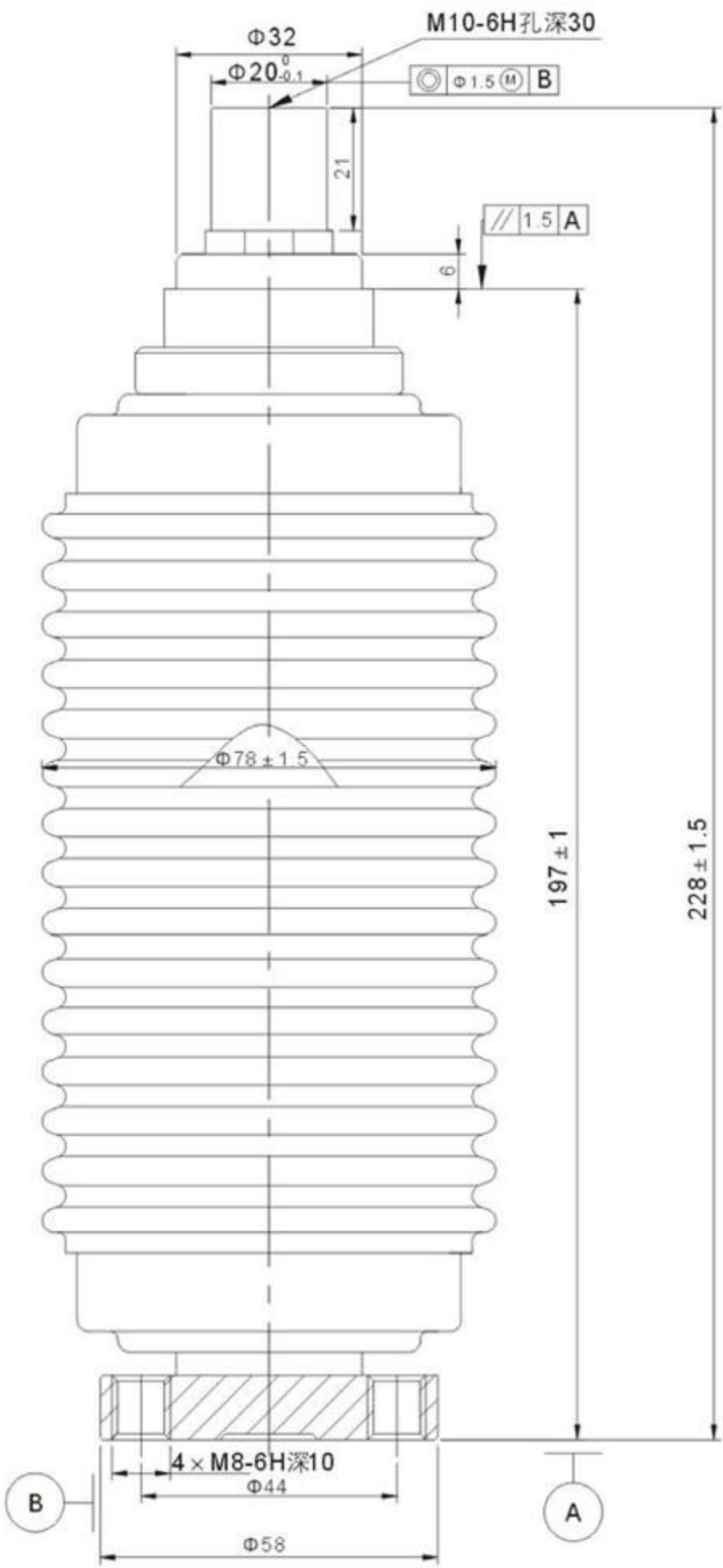


TD-12/630-25 (2D89)

户外断路器用真空灭弧室 Vacuum Interrupter For Outdoor Circuit Breakers
TD-12/630-25(2D89)

Key of Power
Electric Professional
>

TD-12/630-25 (2D89)
配: ZW20



说明

Notes

- 1、本产品符合或超过IEC62271-100以及GB1984-2003中E2级的要求。
Meets or exceeds the electrical endurance requirements of class E2 for autoreclosing duty per IEC62271-100 and GB1984-2003.
- 2、※ 为有需要时提供的额定参数。
※ Rated characteristics to be given on request.
- 3、☆ 代表额定绝缘测试需要外绝缘保护如SF6气体、油或固体绝缘材料。
☆ Rated insulation values require external insulation, such as SF6, oil or solid dielectric material etc.

主要参数

Main Technical Specification

额定电压 Rated Voltage	KV	12
额定电流 Rated Current	A	630
额定频率 Rated Frequency	Hz	50
额定短时(1min)工频耐受电压 Short-time power-frequency Withstand Voltage(1min)	KV	48
额定雷电冲击耐受电压(峰值) Rated lightning Impulse Withstand Voltage(Peak)	KV	75☆
额定短路开断电流 Rated Short-circuit Breaking Current	KA	25
额定峰值耐受电流 Rated Peak Withstand Current	KA	63
额定短路关合电流 Rated Short-circuit Making Current	KA	63
额定短时耐受电流 Rated Short-time Withstand Current	KA	25
额定短路持续时间 Rated Duration of Short-circ	S	4
额定单个电容器组开断电流※ Rated Single Capacitor Bank Breaking Current	A	630
额定背对背电容器组开断电流※ Rated Back to Back Capacitor Bank Breaking Current	A	400
额定短路开断电流次数 Rated Short-circuit Making Current	Times	20
运动部分质量 Mass of Moving Parts	Kg	0.6
机械寿命 Mechanical Endurance	Times	10000
触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	80±30
额定开距下的触头反力 Counterforce of Contact at Full Stroke	N	130±30
额定触头压力下的回路电阻 Circuit Resistance at Min.Rated Contact Force	μΩ	<20
触头允许磨损厚度 Contact Limit Erosion	mm	3
允许储存期 Storage Life	Years	20

配套的真空开关设备应满足的机械参数

Mechanical Data Of Vacuum Switch Equipped With The Interrupters

触头开距 Clearance Between Open Contacts	mm	9±1
平均分闸速度 Average Opening Speed	m/s	1.1±0.2
平均合闸速度 Average Closing Speed	m/s	0.7±0.2
额定触头压力 Rated Contact Pressure	N	1800±200
触头合闸弹跳时间 Contact Bounce Duration at Closing Operation	ms	<3
触头合分闸不同期性 Out of Simultaneity of Contact Closing and Operation	ms	<2
分闸触头反弹幅值 Maximum Rebound During Opening	mm	<2

户外断路器用真空灭弧室 Vacuum Interrupter For Outdoor Circuit Breakers
TD-12/1250-25(2D89B)

Key of Power
Electric Professional
>

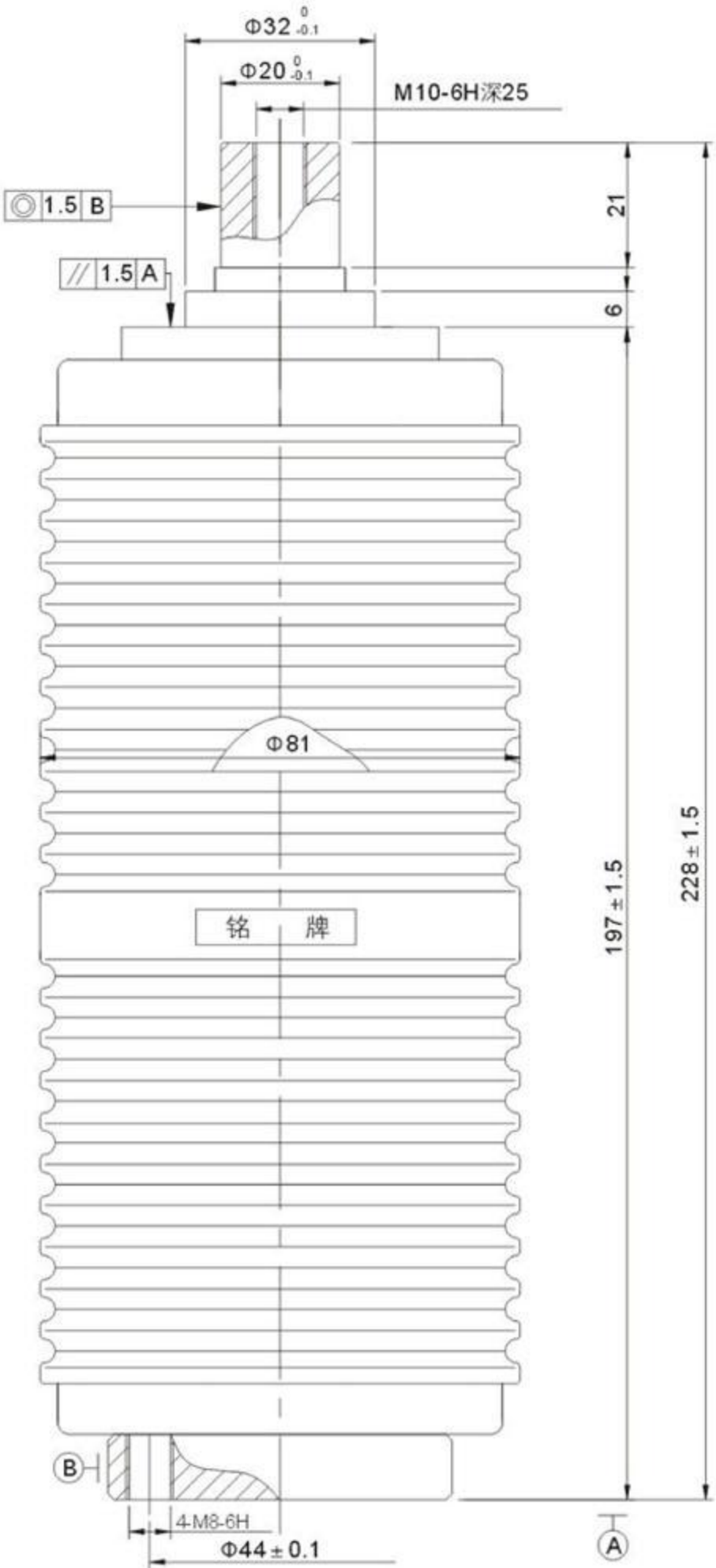


TD-12/1250-25 (2D89B)

户外断路器用真空灭弧室 Vacuum Interrupter For Outdoor Circuit Breakers
TD-12/1250-25(2D89B)

Key of Power
Electric Professional
>

TD-12/1250-25 (2D89B)
配: ZW20



说明

Notes

- 1、本产品符合或超过IEC62271-100以及GB1984-2003中E2级的要求。
Meets or exceeds the electrical endurance requirements of class E2 for autoreclosing duty per IEC62271-100 and GB1984-2003.
- 2、※为有需要时提供的额定参数。
※Rated characteristics to be given on request.
- 3、☆代表额定绝缘测试需要外绝缘保护如SF6气体、油或固体绝缘材料。
☆Rated insulation values require external insulation, such as SF6, oil or solid dielectric material etc.

主要参数

Main Technical Specification

额定电压 Rated Voltage	KV	12
额定电流 Rated Current	A	1250
额定频率 Rated Frequency	Hz	50
额定短时(1min)工频耐受电压 Short-time power-frequency Withstand Voltage(1min)	KV	48
额定雷电冲击耐受电压(峰值) Rated lightning Impulse Withstand Voltage(Peak)	KV	75☆
额定短路开断电流 Rated Short-circuit Breaking Current	KA	25
额定峰值耐受电流 Rated Peak Withstand Current	KA	63
额定短路关合电流 Rated Short-circuit Making Current	KA	63
额定短时耐受电流 Rated Short-time Withstand Current	KA	25
额定短路持续时间 Rated Duration of Short-circ	S	4
额定单个电容器组开断电流※ Rated Single Capacitor Bank Breaking Current	A	630
额定背对背电容器组开断电流※ Rated Back to Back Capacitor Bank Breaking Current	A	400
额定短路开断电流次数 Rated Short-circuit Making Current	Times	20
运动部分质量 Mass of Moving Parts	Kg	0.75
机械寿命 Mechanical Endurance	Times	10000
触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	110 ± 30
额定开距下的触头反力 Counterforce of Contact at Full Stroke	N	190 ± 30
额定触头压力下的回路电阻 Circuit Resistance at Min Rated Contact Force	μ Ω	< 20
触头允许磨损厚度 Contact Limit Erosion	mm	3
允许储存期 Storage Life	Years	20

配套的真空开关设备应满足的机械参数

Mechanical Data Of Vacuum Switch Equipped With The Interrupters

触头开距 Clearance Between Open Contacts	mm	9 ± 1
平均分闸速度 Average Opening Speed	m/s	1.1 ± 0.2
平均合闸速度 Average Closing Speed	m/s	0.7 ± 0.2
额定触头压力 Rated Contact Pressure	N	2200 ± 200
触头合闸弹跳时间 Contact Bounce Duration at Closing Operation	ms	< 3
触头合分闸不同期性 Out of Simultaneity of Contact Closing and Operation	ms	< 2
分闸触头反弹幅值 Maximum Rebound During Opening	mm	< 2

户外断路器用真空灭弧室 Vacuum Interrupter For Outdoor Circuit Breakers
TD-24/630-20(3D82包胶)

Key of Power
Electric Professional
>

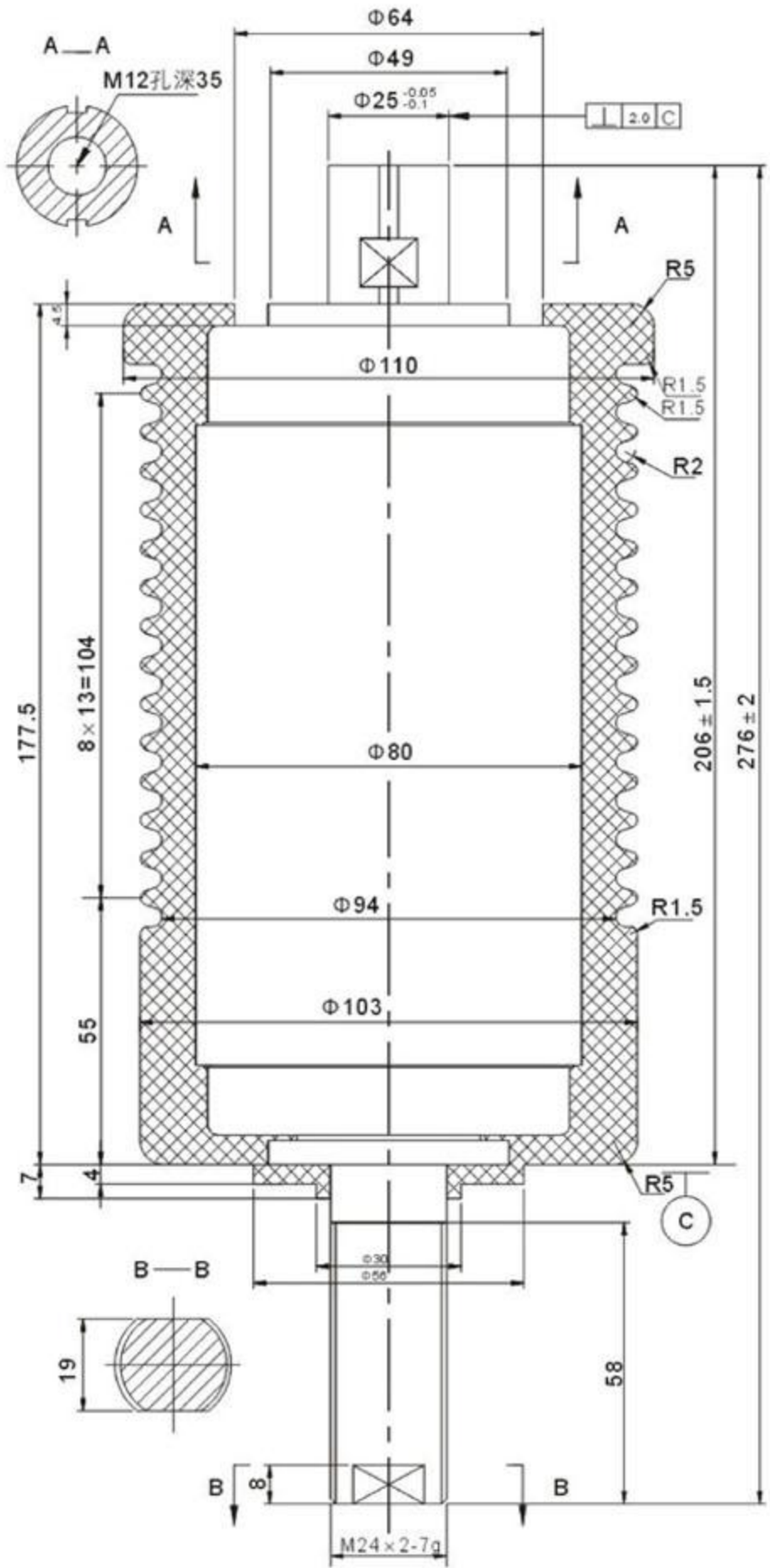


TD-24/630-20 (3D82包胶)

户外断路器用真空灭弧室 Vacuum Interrupter For Outdoor Circuit Breakers
TD-24/630-20(3D82包胶)

Key of Power
Electric Professional
>

TD-24/630-20 (3D82包胶)
配: ZW32-24



说明

Notes

- 1、本产品符合或超过IEC62271-100以及GB1984-2003中E2级的要求。
Meets or exceeds the electrical endurance requirements of class E2 for autoreclosing duty per IEC62271-100 and GB1984-2003.
- 2、※为有需要时提供的额定参数。
※Rated characteristics to be given on request.
- 3、☆代表额定绝缘测试需要外绝缘保护如SF6气体、油或固体绝缘材料。
☆Rated insulation values require external insulation, such as SF6, oil or solid dielectric material etc.

主要参数

Main Technical Specification

额定电压 Rated Voltage	KV	24
额定电流 Rated Current	A	630
额定频率 Rated Frequency	Hz	50
额定短时(1min)工频耐受电压 Short-time power-frequency Withstand Voltage(1min)	KV	65/79☆
额定雷电冲击耐受电压(峰值) Rated lightning Impulse Withstand Voltage(Peak)	KV	125/145☆
额定短路开断电流 Rated Short-circuit Breaking Current	KA	20
额定峰值耐受电流 Rated Peak Withstand Current	KA	50
额定短路关合电流 Rated Short-circuit Making Current	KA	50
额定短时耐受电流 Rated Short-time Withstand Current	KA	20
额定短路持续时间 Rated Duration of Short-circ	S	4
额定单个电容器组开断电流※ Rated Single Capacitor Bank Breaking Current	A	400
额定背对背电容器组开断电流※ Rated Back to Back Capacitor Bank Breaking Current	A	400
额定短路开断电流次数 Rated Short-circuit Making Current	Times	20
运动部分质量 Mass of Moving Parts	Kg	2.2
机械寿命 Mechanical Endurance	Times	10000
触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	110±30
额定开距下的触头反力 Counterforce of Contact at Full Stroke	N	190±30
额定触头压力下的回路电阻 Circuit Resistance at Min.Rated Contact Force	μΩ	<25
触头允许磨损厚度 Contact Limit Erosion	mm	3
允许储存期 Storage Life	Years	20

配套的真空开关设备应满足的机械参数

Mechanical Data Of Vacuum Switch Equipped With The Interrupters

触头开距 Clearance Between Open Contacts	mm	12±1
平均分闸速度 Average Opening Speed	m/s	1.4±0.2
平均合闸速度 Average Closing Speed	m/s	0.7±0.2
额定触头压力 Rated Contact Pressure	N	2000±200
触头合闸弹跳时间 Contact Bounce Duration at Closing Operation	ms	<3
触头合分闸不同期性 Out of Simultaneity of Contact Closing and Operation	ms	<2
分闸触头反弹幅值 Maximum Rebound During Opening	mm	<2

户外断路器用真空灭弧室 Vacuum Interrupter For Outdoor Circuit Breakers
TD-40.5/1250-31.5(4D86)

Key of Power
Electric Professional
>

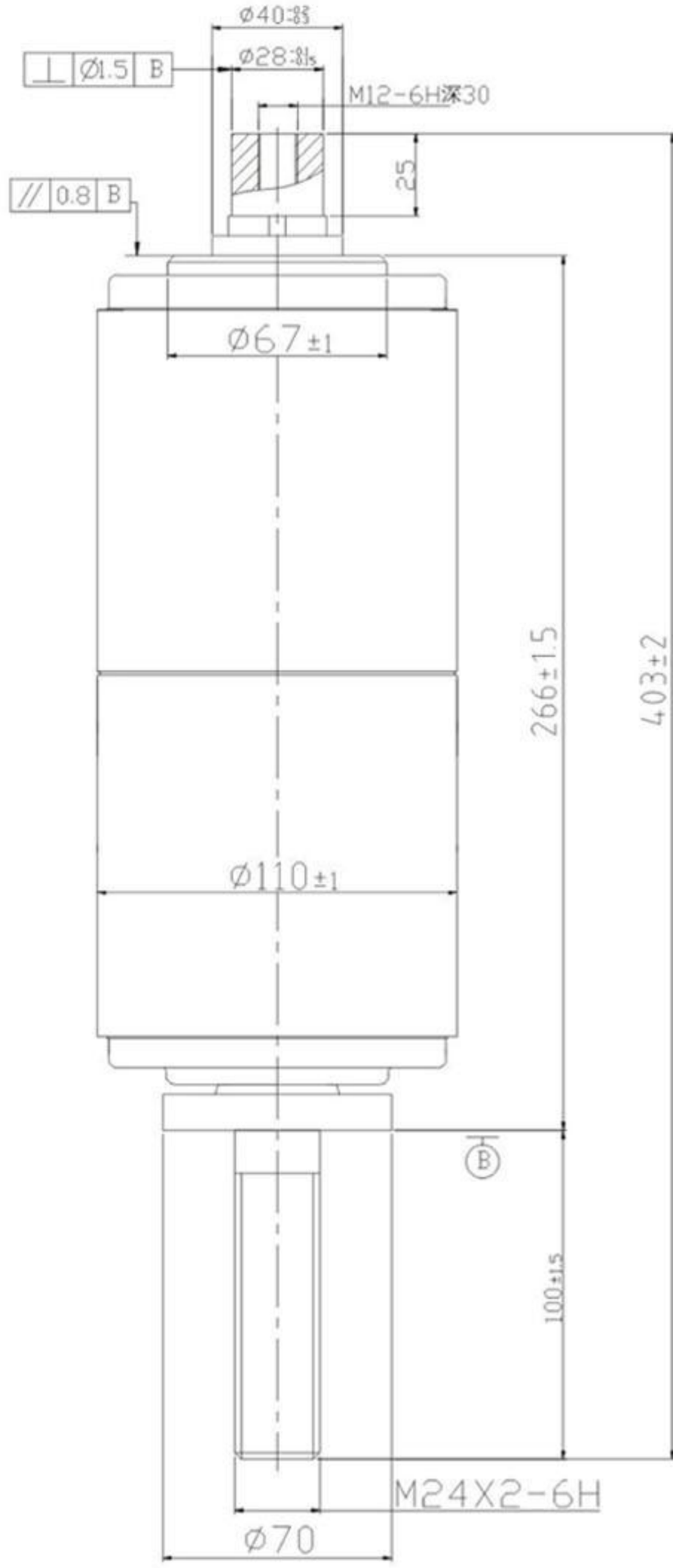


TD-40.5/1250-31.5 (4D86)

户外断路器用真空灭弧室 Vacuum Interrupter For Outdoor Circuit Breakers
TD-40.5/1250-31.5(4D86)

Key of Power
Electric Professional
>

TD-40.5/1250-31.5 (4D86)
配: ZW32-40.5



说明

Notes

- 1、本产品符合或超过IEC62271-100以及GB1984-2003中E2级的要求。
Meets or exceeds the electrical endurance requirements of class E2 for autoreclosing duty per IEC62271-100 and GB1984-2003.
- 2、※ 为有需要时提供的额定参数。
※ Rated characteristics to be given on request.
- 3、☆ 代表额定绝缘测试需要外绝缘保护如SF6气体、油或固体绝缘材料。
☆ Rated insulation values require external insulation, such as SF6, oil or solid dielectric material etc.

主要参数

Main Technical Specification

额定电压 Rated Voltage	KV	40.5
额定电流 Rated Current	A	1250
额定频率 Rated Frequency	Hz	50
额定短时(1min)工频耐受电压 Short-time power-frequency Withstand Voltage(1min)	KV	95
额定雷电冲击耐受电压(峰值) Rated lightning Impulse Withstand Voltage(Peak)	KV	185☆
额定短路开断电流 Rated Short-circuit Breaking Current	KA	31.5
额定峰值耐受电流 Rated Peak Withstand Current	KA	80
额定短路关合电流 Rated Short-circuit Making Current	KA	80
额定短时耐受电流 Rated Short-time Withstand Current	KA	31.5
额定短路持续时间 Rated Duration of Short-circ	S	4
额定单个电容器组开断电流 ※ Rated Single Capacitor Bank Breaking Current	A	400
额定背对背电容器组开断电流 ※ Rated Back to Back Capacitor Bank Breaking Current	A	400
额定短路开断电流次数 Rated Short-circuit Making Current	Times	20
运动部分质量 Mass of Moving Parts	Kg	1.6
机械寿命 Mechanical Endurance	Times	10000
触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	210 ± 50
额定开距下的触头反力 Counterforce of Contact at Full Stroke	N	320 ± 30
额定触头压力下的回路电阻 Circuit Resistance at Min. Rated Contact Force	μ Ω	< 20
触头允许磨损厚度 Contact Limit Erosion	mm	3
允许储存期 Storage Life	Years	20

配套的真空开关设备应满足的机械参数

Mechanical Data Of Vacuum Switch Equipped With The Interrupters

触头开距 Clearance Between Open Contacts	mm	18 ± 1
平均分闸速度 Average Opening Speed	m/s	1.6 ± 0.2
平均合闸速度 Average Closing Speed	m/s	1.3 ± 0.2
额定触头压力 Rated Contact Pressure	N	3000 ± 200
触头合闸弹跳时间 Contact Bounce Duration at Closing Operation	ms	< 3
触头合分闸不同期性 Out of Simultaneity of Contact Closing and Operation	ms	< 2
分闸触头反弹幅值 Maximum Rebound During Opening	mm	< 2

户外断路器用真空灭弧室 Vacuum Interrupter For Outdoor Circuit Breakers
TD-40.5/1250-31.5 TD-40.5/1600-31.5(4D88)

Key of Power
Electric Professional
>

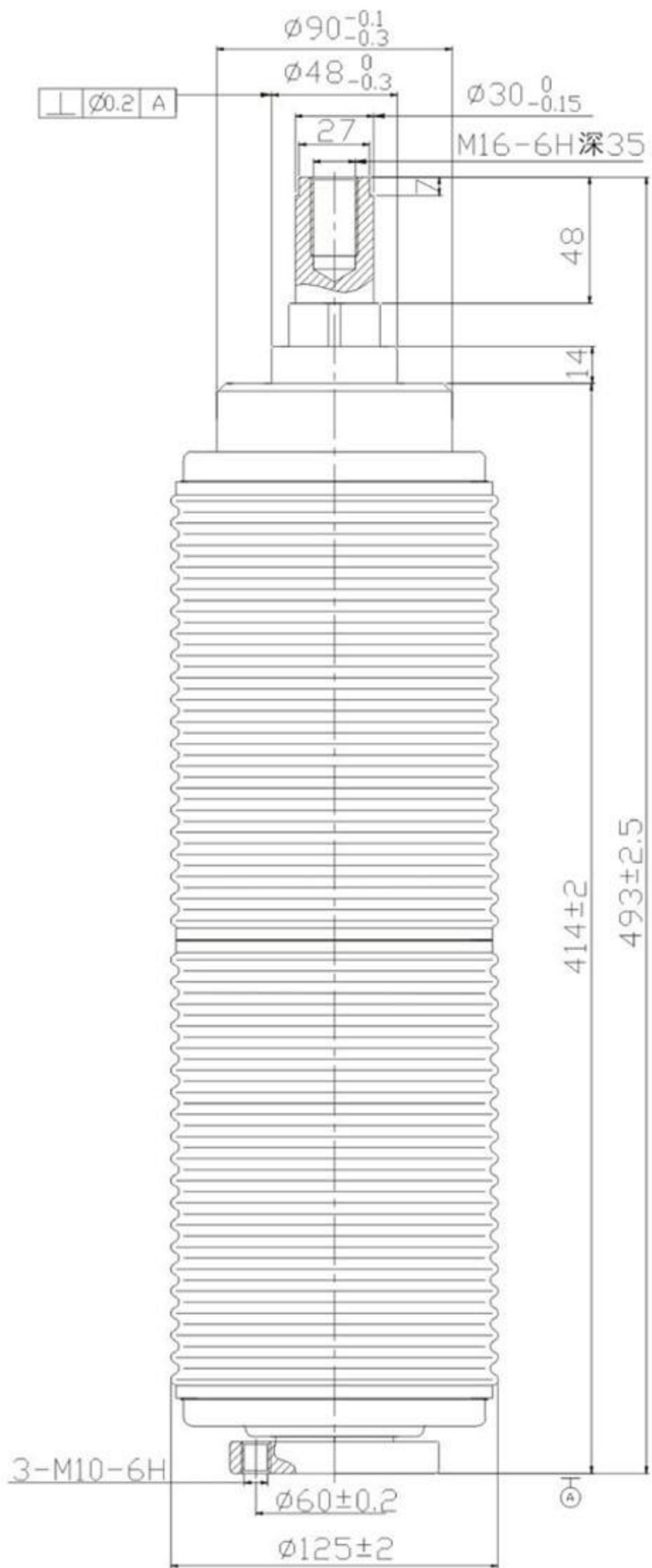


TD-40.5/1250-31.5
TD-40.5/1600-31.5 (4D88)

户外断路器用真空灭弧室 Vacuum Interrupter For Outdoor Circuit Breakers
TD-40.5/1250-31.5 TD-40.5/1600-31.5(4D88)

Key of Power
Electric Professional
>

TD-40.5/1250-31.5 (4D88)
TD-40.5/1600-31.5
配: ZW7



说明

Notes

- 1、本产品符合或超过IEC62271-100以及GB1984-2003中E2级的要求。
Meets or exceeds the electrical endurance requirements of class E2 for autoreclosing duty per IEC62271-100 and GB1984-2003.
- 2、※ 为有需要时提供的额定参数。
※ Rated characteristics to be given on request.
- 3、☆ 代表额定绝缘测试需要外绝缘保护如SF6气体、油或固体绝缘材料。
☆ Rated insulation values require external insulation, such as SF6, oil or solid dielectric material etc.

主要参数

Main Technical Specification

额定电压 Rated Voltage	KV	40.5
额定电流 Rated Current	A	1250/1600
额定频率 Rated Frequency	Hz	50
额定短时(1min)工频耐受电压 Short-time power-frequency Withstand Voltage(1min)	KV	95
额定雷电冲击耐受电压(峰值) Rated lightning Impulse Withstand Voltage(Peak)	KV	185☆
额定短路开断电流 Rated Short-circuit Breaking Current	KA	31.5
额定峰值耐受电流 Rated Peak Withstand Current	KA	80
额定短路关合电流 Rated Short-circuit Making Current	KA	80
额定短时耐受电流 Rated Short-time Withstand Current	KA	31.5
额定短路持续时间 Rated Duration of Short-circ	S	4
额定单个电容器组开断电流※ Rated Single Capacitor Bank Breaking Current	A	400
额定背对背电容器组开断电流※ Rated Back to Back Capacitor Bank Breaking Current	A	400
额定短路开断电流次数 Rated Short-circuit Making Current	Times	20
运动部分质量 Mass of Moving Parts	Kg	2.6
机械寿命 Mechanical Endurance	Times	10000
触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	210±50
额定开距下的触头反力 Counterforce of Contact at Full Stroke	N	280±30
额定触头压力下的回路电阻 Circuit Resistance at Min.Rated Contact Force	μΩ	<25
触头允许磨损厚度 Contact Limit Erosion	mm	3
允许储存期 Storage Life	Years	20

配套的真空开关设备应满足的机械参数

Mechanical Data Of Vacuum Switch Equipped With The Interrupters

触头开距 Clearance Between Open Contacts	mm	22±2
平均分闸速度 Average Opening Speed	m/s	1.6±0.2
平均合闸速度 Average Closing Speed	m/s	0.7±0.2
额定触头压力 Rated Contact Pressure	N	3200±200
触头合闸弹跳时间 Contact Bounce Duration at Closing Operation	ms	<3
触头合分闸不同期性 Out of Simultaneity of Contact Closing and Operation	ms	<2
分闸触头反弹幅值 Maximum Rebound During Opening	mm	<2

户外断路器用真空灭弧室 Vacuum Interrupter For Outdoor Circuit Breakers
TF-12/630-20 (2F55)

Key of Power
Electric Professional
>

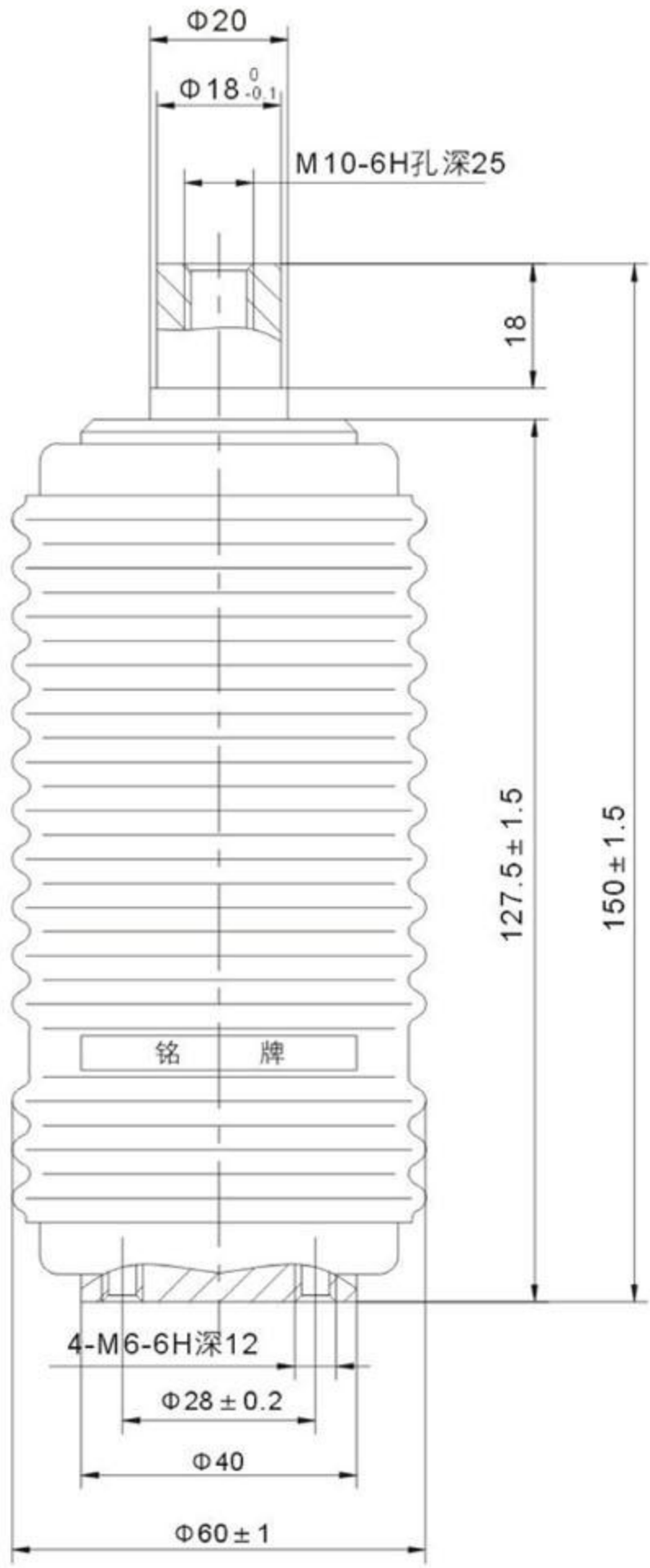


TF-12/630-20 (2F55)

户外断路器用真空灭弧室 Vacuum Interrupter For Outdoor Circuit Breakers
TF-12/630-20 (2F55)

Key of Power
Electric Professional
>

TF-12/630-20 (2F55)
配: FZN25



说明

Notes

- 1、本产品符合或超过IEC62271-100以及GB1984-2003中E2级的要求。
Meets or exceeds the electrical endurance requirements of class E2 for autoreclosing duty per IEC62271-100 and GB1984-2003.
- 2、※为有需要时提供的额定参数。
※Rated characteristics to be given on request.
- 3、☆代表额定绝缘测试需要外绝缘保护如SF6气体、油或固体绝缘材料。
☆Rated insulation values require external insulation, such as SF6, oil or solid dielectric material etc.

主要参数

Main Technical Specification

额定电压 Rated Voltage	KV	12
额定电流 Rated Current	A	630
额定频率 Rated Frequency	Hz	50
额定短时(1min)工频耐受电压 Short-time Power-frequency Withstand Voltage(1min)	KV	42
额定雷电冲击耐受电压(峰值) Rated lightning Impulse Withstand Voltage(Peak)	KV	75☆
额定峰值耐受电流 Rated Peak Withstand Current	KA	50
额定短路关合电流 Rated Short-circuit Making Current	KA	50
额定短时耐受电流 Rated Short-time Withstand Current	KA	20
额定短路持续时间 Rated Duration of Short-circ	S	4
额定闭环开断电流 Rated Closed-loop Breaking Current	A	630
额定空载变压器开断电流 Rated Capacity of no-load Transformer	A	额定容量 1250kVA 配电变压器的空载电流 No-load Current of Transformation With Capacity of 1250kVA
额定电缆充电开断电流 Rated Cable-charging Breaking Current	A	10
额定转移电流 Rated Transferring Current	A	3150
运动部分质量 Mass of Moving Parts	Kg	0.4
机械寿命 Mechanical Endurance	Times	10000
触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	80 ± 30
额定开距下的触头反力 Counterforce of Contact at Full Stroke	N	130 ± 30
额定触头压力下的回路电阻 Circuit Resistance at Min. Rated Contact Force	μ Ω	< 30
触头允许磨损厚度 Contact Limit Erosion	mm	3
允许储存期 Storage Life	Years	20

配套的真空开关设备应满足的机械参数

Mechanical Data Of Vacuum Switch Equipped With The Interrupters

触头开距 Clearance Between Open Contacts	mm	9 ± 1
平均分闸速度 Average Opening Speed	m/s	1.0 ± 0.2
平均合闸速度 Average Closing Speed	m/s	0.6 ± 0.2
额定触头压力 Rated Contact Pressure	N	900 ± 200
触头合闸弹跳时间 Contact Bounce Duration at Closing Operation	ms	< 3
触头合分闸不同期性 Out of Simultaneity of Contact Closing and Operation	ms	< 2
分闸触头反弹幅值 Maximum Rebound During Opening	mm	< 2

户外断路器用真空灭弧室 Vacuum Interrupter For Outdoor Circuit Breakers
TF-12/630-20 (2F56)

Key of Power
Electric Professional
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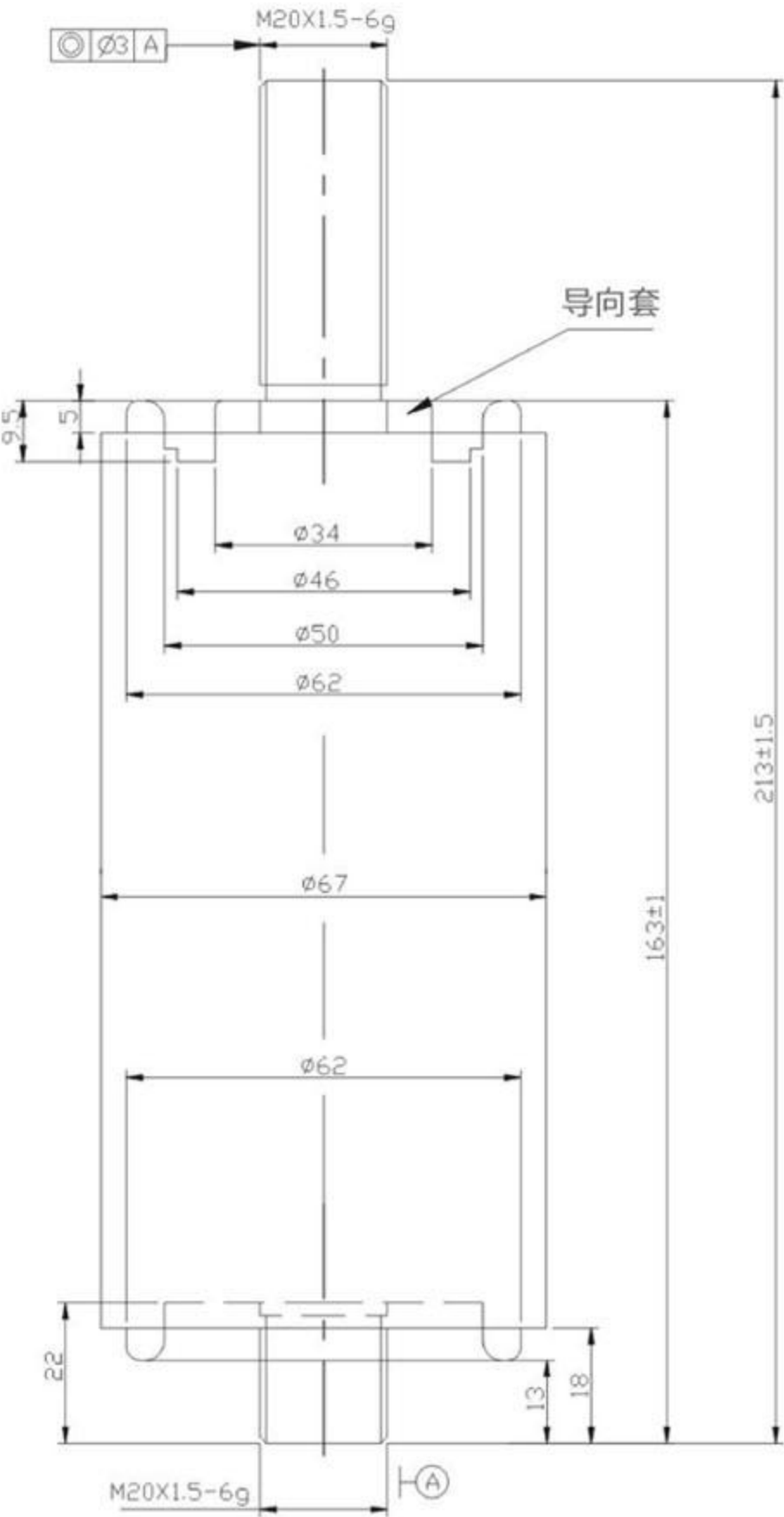


TF-12/630-20 (2F56)

户外断路器用真空灭弧室 Vacuum Interrupter For Outdoor Circuit Breakers
TF-12/630-20 (2F56)

Key of Power
Electric Professional
>

TF-12/630-20 (2F56)
配: FZW28



说明

Notes

- 1、本产品符合或超过IEC62271-100以及GB1984-2003中E2级的要求。
Meets or exceeds the electrical endurance requirements of class E2 for autoreclosing duty per IEC62271-100 and GB1984-2003.
- 2、※为有需要时提供的额定参数。
※Rated characteristics to be given on request.
- 3、☆代表额定绝缘测试需要外绝缘保护如SF6气体、油或固体绝缘材料。
☆Rated insulation values require external insulation, such as SF6, oil or solid dielectric material etc.

主要参数

Main Technical Specification

额定电压 Rated Voltage	KV	12
额定电流 Rated Current	A	630
额定频率 Rated Frequency	Hz	50
额定短时(1min)工频耐受电压 Short-time Power-frequency Withstand Voltage(1min)	KV	42
额定雷电冲击耐受电压(峰值) Rated lightning Impulse Withstand Voltage(Peak)	KV	75☆
额定峰值耐受电流 Rated Peak Withstand Current	KA	50
额定短路关合电流 Rated Short-circuit Making Current	KA	50
额定短时耐受电流 Rated Short-time Withstand Current	KA	20
额定短路持续时间 Rated Duration of Short-circ	S	4
额定闭环开断电流 Rated Closed-loop Breaking Current	A	630
额定空载变压器开断电流 Rated Capacity of no-load Transformer	A	额定容量 1250kVA 配电变压器的空载电流 No-load Current of Transformation With Capacity of 1250kVA
额定电缆充电开断电流 Rated Cable-charging Breaking Current	A	10
额定转移电流 Rated Transferring Current	A	3150
运动部分质量 Mass of Moving Parts	Kg	0.5
机械寿命 Mechanical Endurance	Times	10000
触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	80±30
额定开距下的触头反力 Counterforce of Contact at Full Stroke	N	130±30
额定触头压力下的回路电阻 Circuit Resistance at Min.Rated Contact Force	μΩ	<30
触头允许磨损厚度 Contact Limit Erosion	mm	3
允许储存期 Storage Life	Years	20

配套的真空开关设备应满足的机械参数

Mechanical Data Of Vacuum Switch Equipped With The Interrupters

触头开距 Clearance Between Open Contacts	mm	9±1
平均分闸速度 Average Opening Speed	m/s	1.0±0.2
平均合闸速度 Average Closing Speed	m/s	0.6±0.2
额定触头压力 Rated Contact Pressure	N	900±200
触头合闸弹跳时间 Contact Bounce Duration at Closing Operation	ms	<3
触头合分闸不同期性 Out of Simultaneity of Contact Closing and Operation	ms	<2
分闸触头反弹幅值 Maximum Rebound During Opening	mm	<2

户外断路器用真空灭弧室 Vacuum Interrupter For Outdoor Circuit Breakers
EP-12/630-25 EP-12/1250-25(2D95) EP-12/1250-31.5

Key of Power
Electric Professional
>

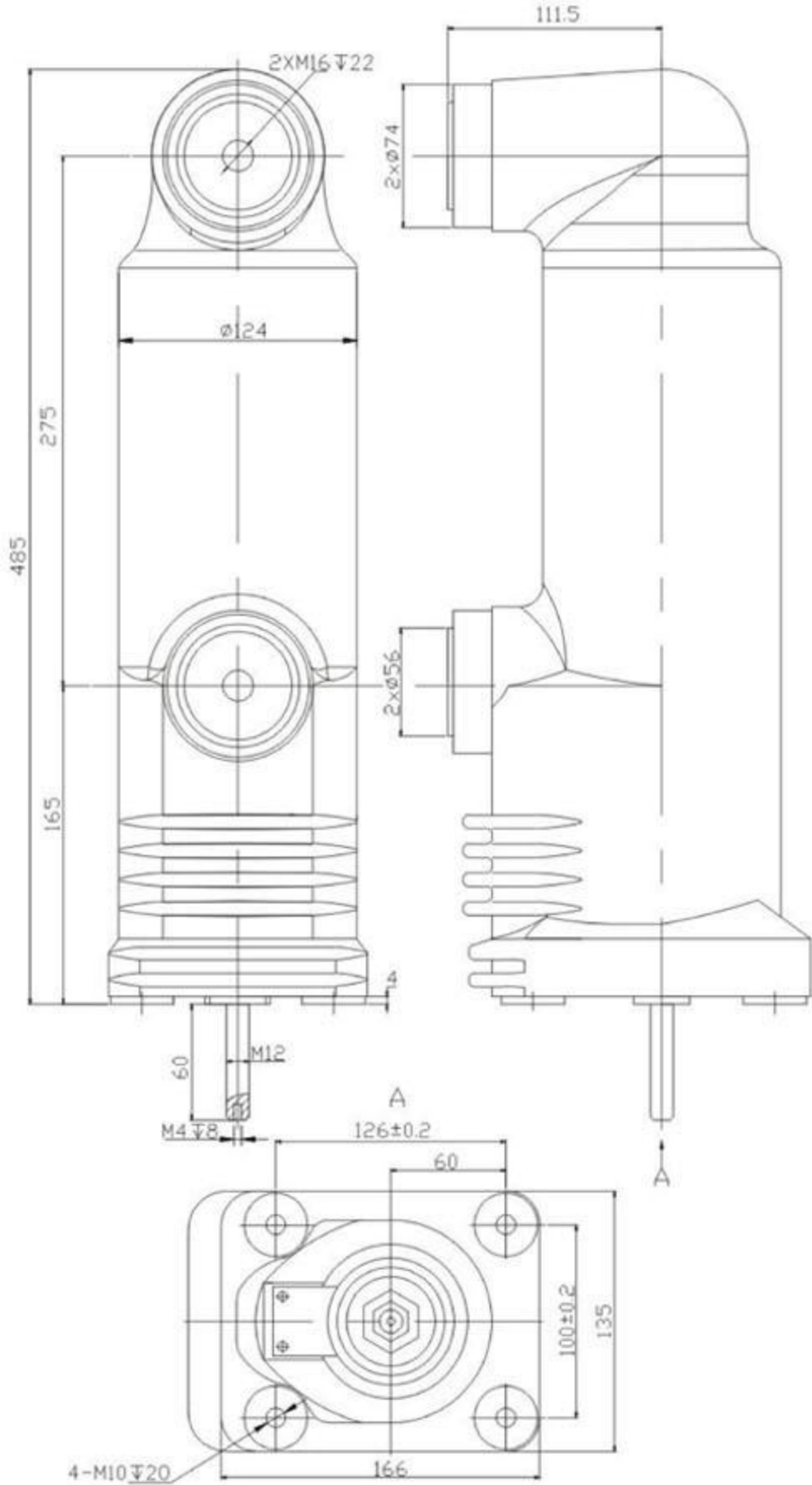


EP-12/630-25
EP-12/1250-25 (2D95)
EP-12/1250-31.5

户外断路器用真空灭弧室 Vacuum Interrupter For Outdoor Circuit Breakers
EP-12/630-25 EP-12/1250-25(2D95) EP-12/1250-31.5

Key of Power
Electric Professional
>

EP-12/630-25
EP-12/1250-25 (2D95)
EP-12/1250-31.5
配: ZN63



说明
Notes

- 1、本产品符合或超过IEC62271-100以及GB1984-2003中E2级的要求。
Meets or exceeds the electrical endurance requirements of class E2 for autoreclosing duty per IEC62271-100 and GB1984-2003.
- 2、※ 为有需要时提供的额定参数。
※ Rated characteristics to be given on request.
- 3、☆ 代表额定绝缘测试需要外绝缘保护如SF6气体、油或固体绝缘材料。
☆ Rated insulation values require external insulation, such as SF6, oil or solid dielectric material etc.

主要参数

Main Technical Specification

额定电压 Rated Voltage	KV	12
额定电流 Rated Current	A	630/1250
额定频率 Rated Frequency	Hz	50
额定短时(1min)工频耐受电压 Short-time power-frequency Withstand Voltage(1min)	KV	48
额定雷电冲击耐受电压(峰值) Rated lightning Impulse Withstand Voltage(Peak)	KV	75
额定短路开断电流 Rated Short-circuit Breaking Current	KA	25/31.5
额定峰值耐受电流 Rated Peak Withstand Current	KA	63/80
额定短路关合电流 Rated Short-circuit Making Current	KA	63/80
额定短时耐受电流 Rated Short-time Withstand Current	KA	25/31.5
额定短路持续时间 Rated Duration of Short-circ	S	4
额定单个电容器组开断电流 Rated Single Capacitor Bank Breaking Current	A	400
额定背对背电容器组开断电流 Rated Back to Back Capacitor Bank Breaking Current	A	400
额定短路开断电流次数 Rated Short-circuit Making Current	Times	20
运动部分质量 Mass of Moving Parts	Kg	2.5
机械寿命 Mechanical Endurance	Times	10000
触头自闭力 Contact Closed Force Due to Bellows and Atmosphere	N	110 ± 30
额定开距下的触头反力 Counterforce of Contact at Full Stroke	N	210 ± 30
额定触头压力下的回路电阻 Circuit Resistance at Min.Rated Contact Force	μ Ω	< 20
触头允许磨损厚度 Contact Limit Erosion	mm	3
允许储存期 Storage Life	Years	20
局部放电量(13.2KV) Magnitude Of Partial Discharge(13.2KV)	PC	≤ 1
波纹管防扭矩 Torsionproof Moment Of Bellows	N.m	≤ 45

配套的真空开关设备应满足的机械参数

Mechanical Data Of Vacuum Switch Equipped With The Interrupters

触头开距 Clearance Between Open Contacts	mm	9 ± 1
平均分闸速度 Average Opening Speed	m/s	1.4 ± 0.2
平均合闸速度 Average Closing Speed	m/s	0.7 ± 0.2
额定触头压力 Rated Contact Pressure	N	3200 ± 200
触头合闸弹跳时间 Contact Bounce Duration at Closing Operation	ms	< 3
触头合分闸不同期性 Out of Simultaneity of Contact Closing and Operation	ms	< 2
分闸触头反弹幅值 Maximum Rebound During Opening	mm	< 2