Assurance of Quality

Our company is an approved enterprise of ISO 9001:2000 quality management system, all products have passed testing and auditing of National Authorized body in all fields. now we are making the following assurance：

1、Production acceptance and packaging of power fitting are in accordance with GB2314-97《Power fitting general technical terms and conditions》and GB 2317.1-4-2000《Accepted rules、Testing means 、Marks and packaging of power fittings》；

2、Heat-shrinkable accessory is in compliance with machinery industry Department standard of JB 7829-1995;

3、Composite insulator is in compliance with JB/T 5892-1991《Technical conditions of composite insulator for high-voltage lines》；

4、Surge arrester is in conformity with IEC 60099-4：2001-12《The standard of metal oxide arrester for alternating current system》.

We will assure you of replacing if our product quality don`t reach the above standard requirements.

质量保险

我们公司是ISO9001: 2000质量管理体系认证企业，所有产品均通过国家权威机构在各领域的检测和审核。现作出如下保证:

1、电力产品的生产和包装遵循 GB2314 - 97《电力配件通用技术条款和条件》和GB23171 - 42000《接受规则,检测手段,权力的标志和包装配件》；

2、热收缩附件符合机械工业部JB 7829-1995标准;

3、复合绝缘子符合JB/T 5892-1991《高压线路复合绝缘子技术条件》；

4、避雷器符合IEC 60099-4: 2001-12 《交流系统用金属氧化物避雷器标准》；

我们向您承诺：如果我们的产品质量不符合上述标准，将立即更换。

LUGAO

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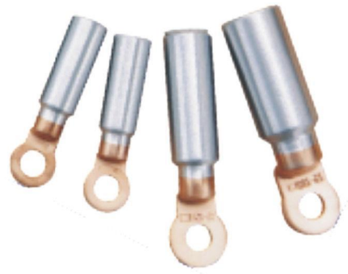
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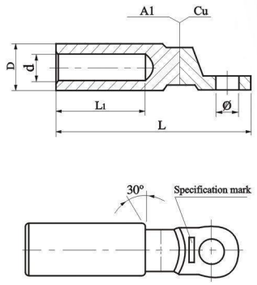
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LUGAO

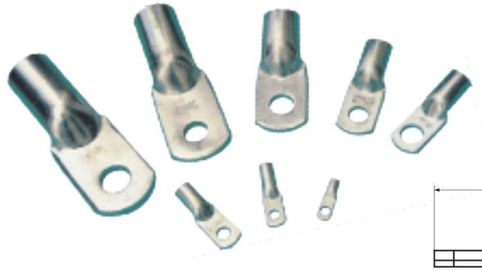
CU-AL BIMETALLIC COMPRESSION LUG
CU-AL铜铝接线端子

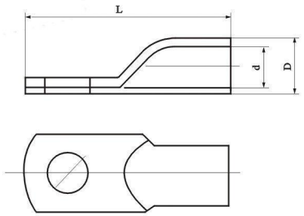




类型	大小				
Type	Dimensions(mm)				
	D	d	L	L1
CAL-16	13	16	5.5	83	42
CAL-25	13	16	6.5	83	42
CAL-35	13	16	8	83	42
CAL-50	13	20	9	90	43
CAL-70	13	20	11	90	43
CAL-95	13	20	12.5	90	43
CAL-120	13	25	13.5	115	60
CAL-150	13	25	15.5	115	60
CAL-185	13	32	17.5	122	60
CAL-240	13	32	19.5	122	60
CAL-300	13	34	22.5	125	62

COPPER CONNECTING TERMINAL
堵油型铜接线端子

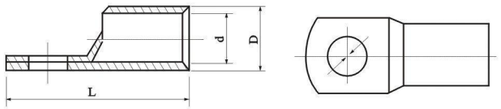




类型	大小			
Type		Dimensions(mm)		
		D	d	L
JG-10	6.2	8	5	38
JG-16	8.4	9	6	41
JG-25	8.4	10	7	46
JG-35	8.5	11	8	52
JG-50	8.5	13	10	54
JG-70	10.5	16	12	61
JG-95	10.5	18	14	66
JG-120	12.5	20	15	73
JG-150	12.5	23	17	77
JG-185	14.5	25	19	86
JG-240	16.5	27	21	93
JG-300	16.5	31	24	103
JG-400	18.5	34	26	113
JG-500	20.5	38	30	124
JG-630	22.5	45	35	140
JG-800	22.5	50	40	170

DTGA SERIES LUG
DTGA铜接线端子



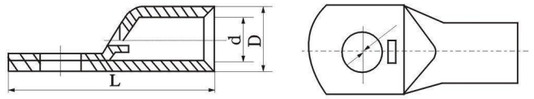


类型	适用螺栓	大小			
Type	Applicable Bolts	Dimensions(mm)			
		D	d	L	L1
DTGA-2.5	(m4,m6)	4	2.4	20 24	7
DTGA-4		4.8	3.1	22 26	9
DTGA-6	m5,m6 m8.m10.m12	5.5	3.8	23 27 32	9
DTGA-10		7.1	4.7	27 29 32 37	10
DTGA-16	m6.m8.m10	8	5.6	37 39 41 46	19
DTGA-25	m6,m8 m10.m12	9.8	7.2	41 44 48	21
DTGA-35		11.6	8.4	44 46 51	21
DTGA-50		13	9.8	48 52	22
DTGA-70	m8,m10 m12.m16	14.6	11.6	54	24
DTGA-95		17.8	13.4	60 54	27
DTGA-120	m10,m12 m16	21	15.6	64 68	30
DTGA-150		22.8	17	65 73	30
DTGA-185	m10,m12 m16.m20	25	18.8	68 76	32
DTGA-240		29	21.6	92	38
DTGA-300	no hole	32.4	24.2	101	42
DTGA-400	no hole	35	27.2	114	44
DTGA-500	no hole	39	30.4	124	48
DTGA-630	no hole	46	34.8	144	56

DTGS,DTGB SERIES LUG
DTGS， DTGB系列铜接线端子

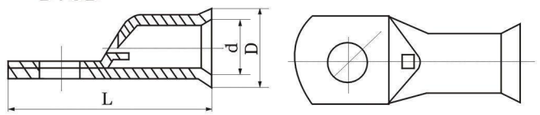


DTGS





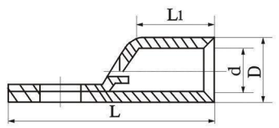
DTGB

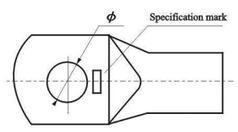


类型		大小		
Type		Dimensions(mm)		
		D	d	L
DTGS-1.5		3.5	1.8	18
DTGS-2.5		4	2.5	19
DTGS-4		4.8	3.1	21
DTGS-6		5.5	3.8	24
DTGS-10		6.8	4.8	25.5
DTGS-16		7.5	5.5	30.5
DTGS-25		9	7	34
DTGS-35		10.5	8.2	38
DTGS-50		12.5	9.8	45
DTGS-70		14.5	11.5	50
DTGS-95		17.5	13.8	55.5
DTGS-120		19.5	15.5	63
DTGS-150		21	16.5	71
DTGS-185		23.5	18.8	78
DTGS-240		26.5	21	92
DTGS-300		30	24	102
DTGS-400		34	24.5	113
DTGS-500		38	30	123
DTGS-630		45	35	135
DTGS-800		50	39	170
DTGS-1000		56	44	200

DTGY SERIES LUG
DTGA系列铜接线端子







类型		大小				
Type		Dimensions(mm)				
		D	d	L	L_1	
DTGY-2.5	5.5	4.2	2.6	20	6	
DTGY-4	5.5	5	3.2	20	6	
DTGY-6	5.5	5.5	3.7	21	7	
DTGY-10	6.5	7	4.6	26	9	
DTGY-16	8.5	8	5.5	32	10	
DTGY-25	8.5	9.5	7	38	14	
DTGY-35	8.5	11	8.4	40	16	
DTGY-50	10.5	13	10	50	18	
DTGY-70	10.5	14	11	54	20	
DTGY-95	12.5	17	13.4	62	22	
DTGY-120	12.5	20	15.5	70	26	
DTGY-150	14.5	21	16.5	76	28	
DTGY-185	14.5	24	19	84	32	
DTGY-240	17	26	21	90	34	
DTGY-300	17	30	23.5	95	40	
DTGY-400	17	35	26.8	115	47	
DTGY-500	17	38	30	130	55	
DTGY-630	17	45	34	130	55	

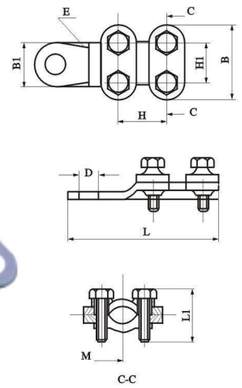
GTY COPPER CONNECTING TUBE
GTY 铜接续管



类型		大小		
Type	Dimensions(mm)			
	D	d	L	
GTY-1.5	3.7	1.8	20	
GTY-2.5	4	2.5	20	
GTY-4	4.8	3.1	20	
GTY-5.5	5.5	3.8	25	
GTY-10	6.8	4.8	30	
GTY-16	7.5	5.5	35	
GTY-25	9	7	40	
GTY-35	10.5	8.2	45	
GTY-50	12.5	9.8	50	
GTY-70	14.5	11.5	55	
GTY-95	17.5	13.5	60	
GTY-120	19.5	15	65	
GTY-150	21	16.5	70	
GTY-185	23.5	18.5	75	
GTY-240	26.5	21	80	
GTY-300	30	24	85	
GTY-400	34	27	90	
GTY-500	38	30	100	
GTY-630	45	35	110	
GTY-800	50	39	150	
GTY-1000	56	44	170	

WCJB RED COPPER JOINT CLAMP
WCJB 红铜接续线夹

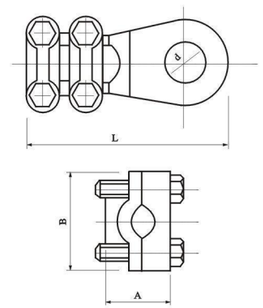




类型	导管	大小							
Type	Conductor (mm^2)	Dimensions(mm)							
		L	L_1	B	B_1	H	H_1	D	M
WCJB-1	16~25	3.95	15	25	16.5	13	13	8.8	5
WCJB-2	16~25	45	15	22	18	13	13	8.5	5
WCJB-3	25~35	52.5	15	24.5	21.2	13.5	13.5	10.5	5
WCJB-4	50~70	61	21	31	23	18.5	18.5	10.5	6
WCJB-5	70~95	69	24	35	23.5	20	20	10.5	6
WCJB-6	95~120	74	20.5	42	28.5	22.5	22.5	13.5	7
WCJB-7	120~150	73.5	30	41	27	24	24	13.5	8
WCJB-8	150~185	76	30	42	28	24.5	24.5	13.5	8
WCJB-9	185~240	80	32	44	30	25	25	13.5	8

WCJC COPPER JOINT CLAMP
WCJC 铜接续线夹

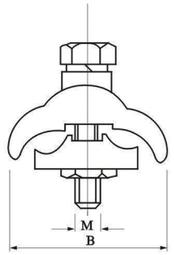


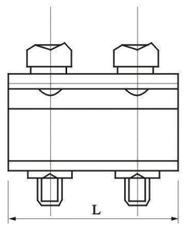


类型	导管	大小			
Type	Conductor (mm^2)	Dimensions(mm)			
		L	A	B	d
WCJC-1	16	37	10	21	7.5
WCJC-2	25~35	48	13	22	11
WCJC-3	50~70	60	17	31	11
WCJC-4	120~150	70	23	35	15
WCJC-5	210~250	90	30	46	17
WCJC-6	300~500	125	35	62	23

CAPG TYPE COPPER-ALUMINIUM PARALLEL GROOVE CLAMP
CAPG 型铜铝并沟线夹

CAPG-A1	Cu 6-50mm^2 AL 16-70/12mm^2	Single bolt
CAPG-A2	Cu 10-95mm^2 AL 25-150mm^2	Single bolt
CAPG-B1	Cu 6-50mm^2 AL 16-70mm^2	Double bolts
CAPG-B2	Cu 10-95mm^2 AL 25-150mm^2	Double bolts
CAPG-C	Cu 35-240mm^2 AL 35-300mm^2	Tri-bolts











APG-TYPE ALUMINIUM PARALLEL GROOVE CLAMP
APG 型铝并沟线夹

APG-A	AL 16-70mm^2	Single bolt
APG-B1	AL 16-35mm^2	Double bolts
APG-B2	AL 16-70mm^2	Double bolts
APG-B3	AL 16-150mm^2	Double bolts
APG-B4	AL 30-300mm^2	Double bolts



JLL ALUMINIUM COPPER DOUBLE WIRE CLAMP
JLL 铜铝双线夹

Type	B	L	M
JLL-AL-16-120	45	50	M8
JLL-AL-10-150	50	50	M8
JLL-AL-35-185	62	64	M10

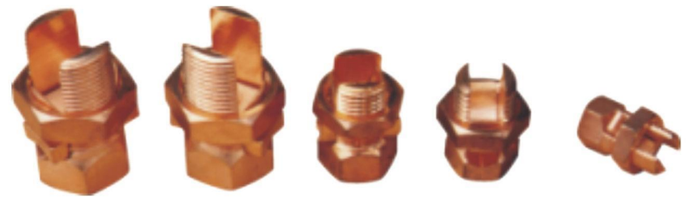


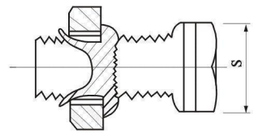
JAPG-TYPE ALUMINIUM PARALLEL GROOVE CLAMP
JAPG 型铝并沟线夹

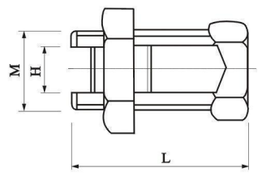
JAPG-1	ALUMINIUM 25-35mm^2
JAPG-2	ALUMINIUM 50-70mm^2
JAPG-3	ALUMINIUM 95-120mm^2



T/J COPPER SPLIT BOLT TYPE LINE TAPS
T/J 型铜开口螺栓







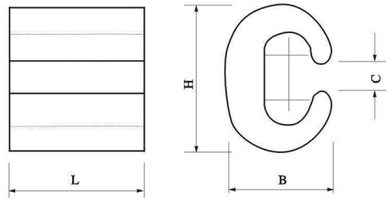
类型				
Type	L	M	H	S
T/J-16	20	M17×2.5	6	18
T/J-25	27	M19×2.5	7	20
T/J-35	35	M21×2.5	7	22
T/J-50-70	42	M23×2.5	11	24
T/J-90-120	45	M25×2.5	14	26
T/J-150-185	60	M29×2.5	17	30
T/J-200-240	62,72	M31×2.5	20	32

CCA COPPER WIRE CLAMP
CCA 铜线夹

It is suitable for the connection of copper splicing wire, made of “C” shaped copper material.

C型线夹，适用于铜接线。

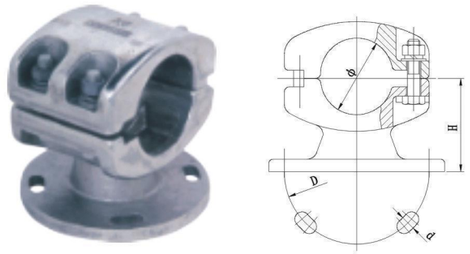




类型	导管	大小			
Type	Conductor (mm^2)	Dimensions(mm)			
		H	B	L	C
CCA-1	25-35	25	15	22	10
CCA-2	50-70	34	21.5	25	11
CCA-3	95-95	41	25	29	14.5
CCA-4	120-120	47.5	29	30	16

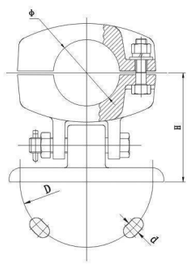
TUBULAR BUS-BAR FIXING FITTINGS
母线固定金具

MGG type tubular bus-bar fixing fitting
MGG型管母线固定金具



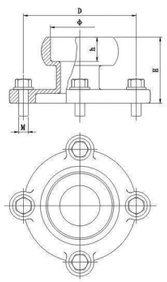
MGGH type tubular bus-bar movable fixing fitting 管形母线滑动式固定金具





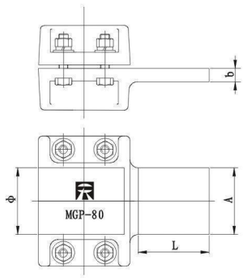
MGD tubular bus-bar end fixing fitting
MGD型管母线端部固定金具





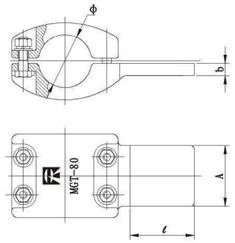
MGP tubular bus-bar level connecting fitting MGP型管母线平接金具





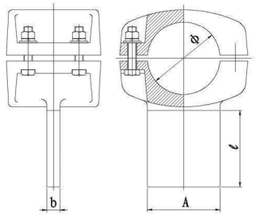
MGT tubular bus-bar “T” connecting fitting MGT型管母线T接金具





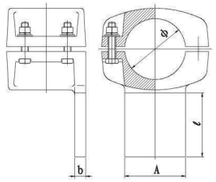
MGT-D tubular bus-bar spacer “T” shape clamp MGT—D型管母线消振环T形线夹





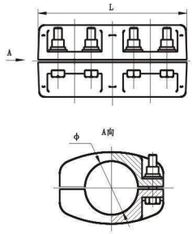
MGT-C tubular bus-bar vertical terminal clamp MGT—C型管母线垂直设备线夹





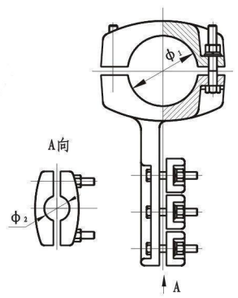
MJ-W tubular bus-bar outside joint
MJ—W型管母线外接头





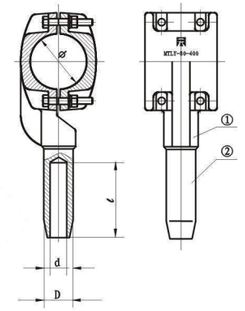
MTL tubular bus-bar bolt type “T” shape clamp MTL型管母线螺栓型“T”形线夹





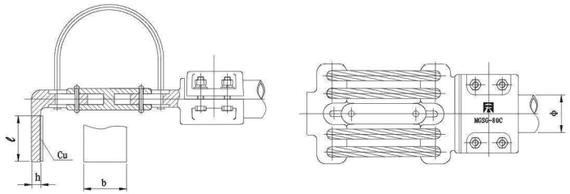
MTLY tubular bus-bar compression type “T” shape clamp MTLY型管母线压缩型“T”形线夹



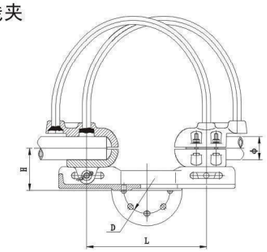


MGSG-C tubular bus-bar copper-Aluminum expansion terminal clamps
MGSG-C型管母线铜铝伸缩设备线夹





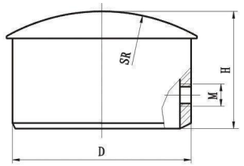
MGSG support type tubular bus-bar expansion clamps
MGSG型支撑式管母线间伸缩线夹





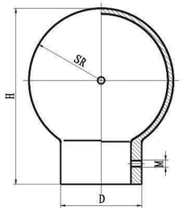
MGF tubular bus-bar sealed head
MGF型管形母线封头





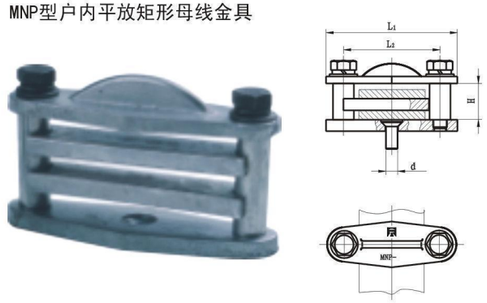
MGZ tubular bus-bar termination ball
MGZ型管母线终端球



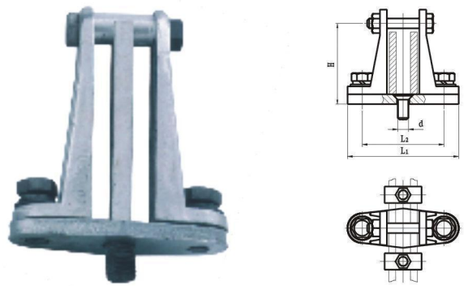


RECTANGULAR BUS-BAR FIXING FITTING
矩形母线固定金具

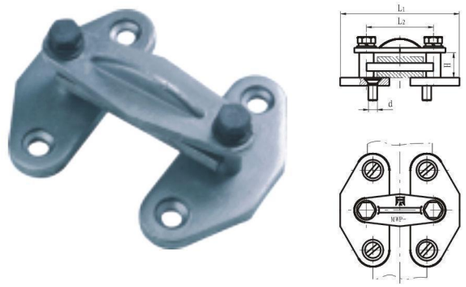
MNT type indoor horizontal setting rectangular bus-bar fitting
MNP型户内平放矩形母线金具



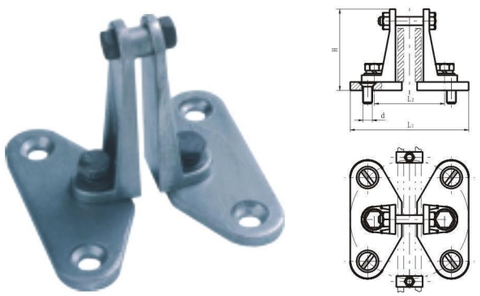
MNL indoor vertical setting rectangular bus-bar fitting
MNL型户内立放矩形母线金具



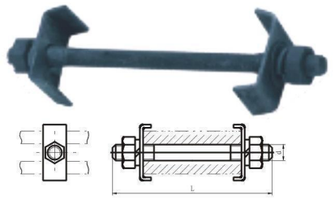
MWP outdoor horizontal setting rectangular bus-bar fitting
MWP型户外平放矩形母线金具



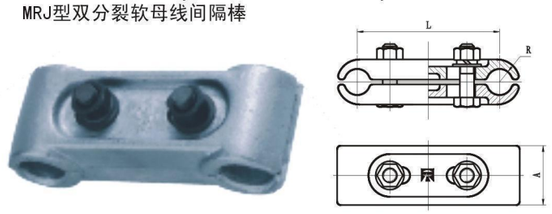
MWL outdoor vertical rectangular bus-bar fitting
MWL型户外立放矩形母线金具



MJG rectangular bus-bar spacer
MJG型矩形母线间隔垫

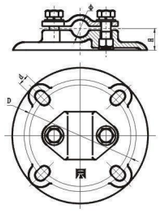


MRJ double split soft bus-bar spacer
MRJ型双分裂软母线间隔棒

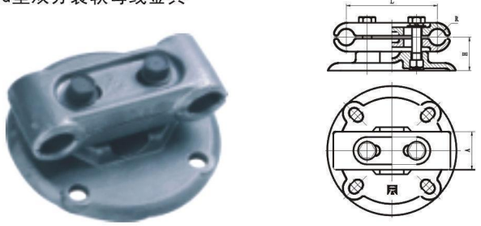


MDG single soft bus-bar fitting
MDG型单软母线金具





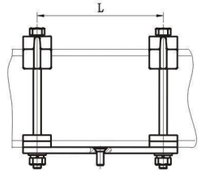
MSG double split soft bus-bar fitting
MSG型双分裂软母线金具



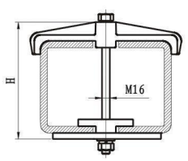
GROOVE BUS-BAR FIXING FITTING
槽形母线固定金具

MCN group bus-bar indoor fixing fitting
MCN型槽形母线户内固定金具



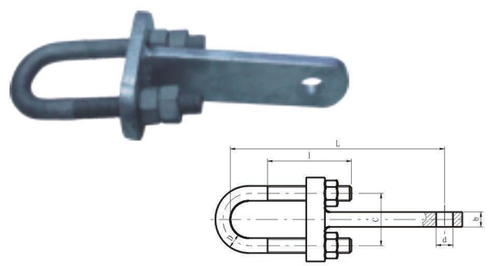


MCW groove bus-bar outdoor fixing fitting
MCW型槽形母线户外固定金具



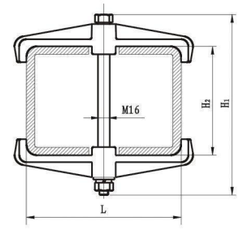


MDT hanging adjusting ring
MDT型吊挂调整环

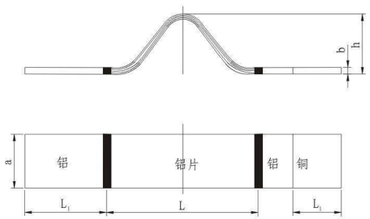


MCG groove bus-bar spacer
MCG型槽形母线间隔垫



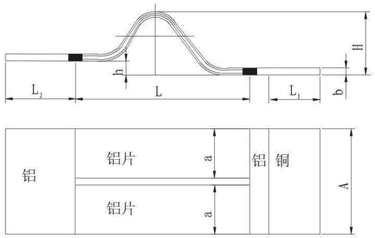


MSS、MS、MTS series copper-Aluminum bus-bar expansion joints
MSS、MS、MTS系列铜铝母线伸缩节





MSC series groove bus-bar expansion joint
MSC系列槽型母线伸缩节

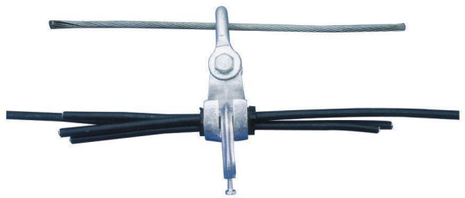




INSULATED CONDUCTOR HANGING CLAMPS
绝缘悬挂线夹

JCG





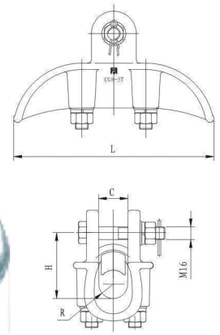
JCG-C



SUSPENSION CLAMPS
悬垂线夹

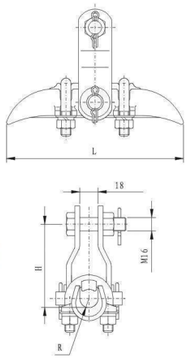
CGH





CGU

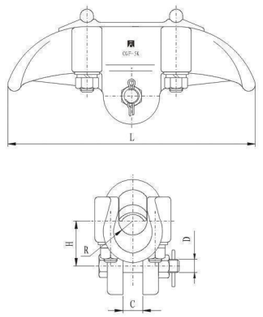


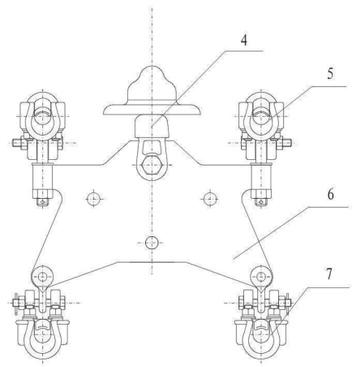


CGF Aluminum alloy corona proof type suspension clamp

CGF铝合金防晕型悬垂线夹







FOUR CORES CENTRALIZED STRAIN CLAMPS
四芯集束耐张线夹



JNS-1A



JNS-2A



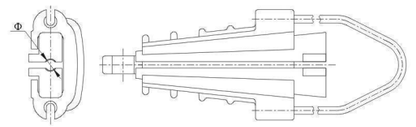
JNS-1B



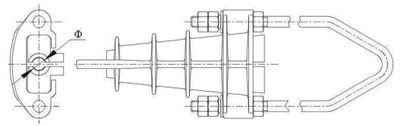
JNS-2B

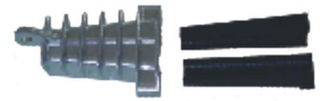
WEDGE TYPE INSULATION STRAIN CLAMPS
楔形绝缘耐张线夹

JNE

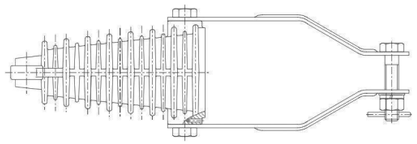




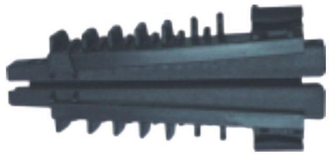


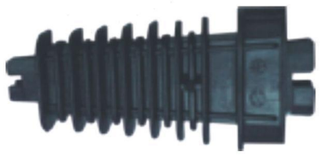












JNE4(Engineering plastic)

Wedge type aluminum alloy strain clamps and insulation covers
楔型铝合金耐张线夹及绝缘罩

NEK





Wedge type strain clamps and insulation covers
楔型耐张线夹及绝缘罩

NEK-T





Bolt type aluminum alloy strain clamps and insulation covers
配电（变电）用螺栓型铝合金耐张线夹及绝缘罩

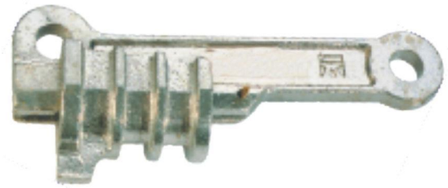
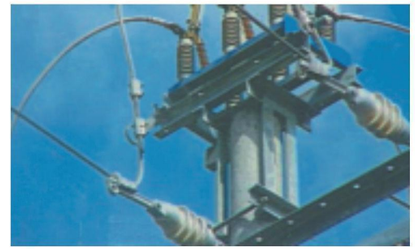
NLL



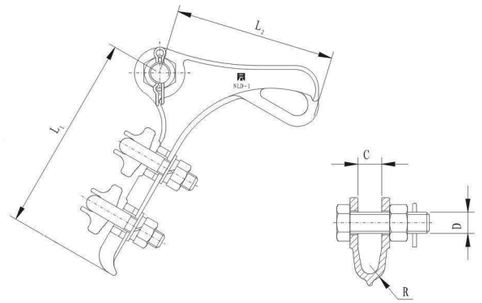




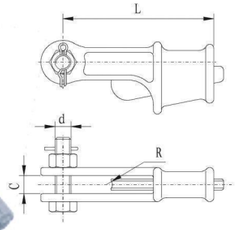

NEH wedge type aluminum alloy strain clamps and insulation covers
NEH楔型铝合金耐张线夹及绝缘罩

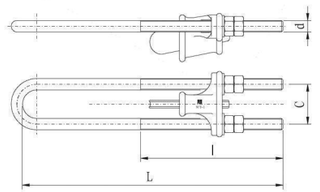
NLD bolt type forged iron strain clamps
螺栓型可锻铸铁耐张线夹

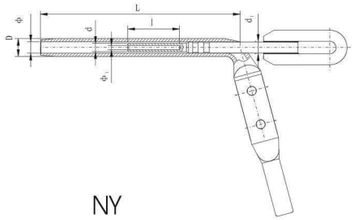
NE wedge type pulling line strain clamps (initial type no)
NE型楔型拉线耐张线夹（原型号为NX）

NUT wedge type pulling line clamps (adjustable type)
NUT型楔型拉线线夹（可调式）

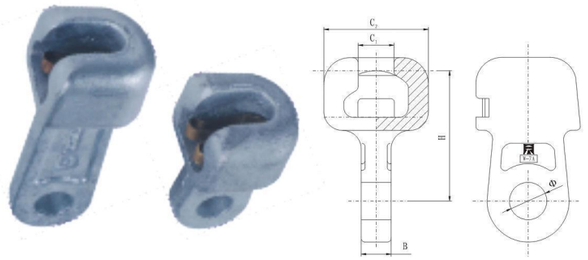
Compression type strain clamps
压缩型耐张线夹



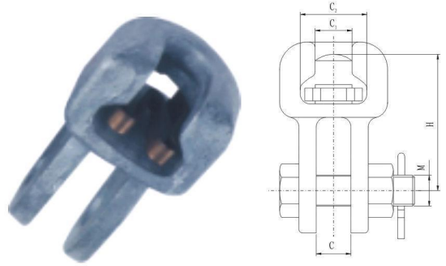
NY



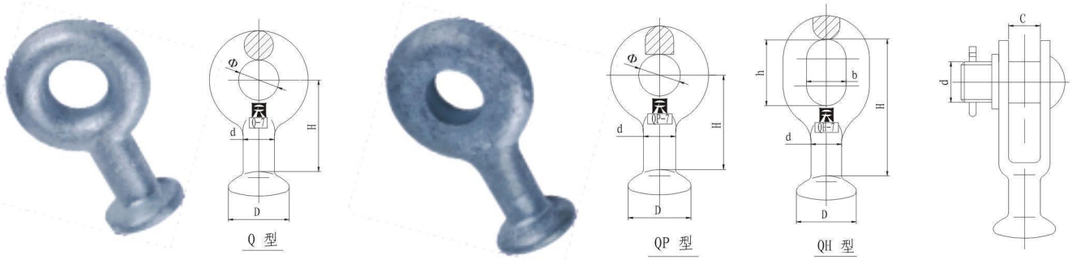
W type socket clevis eye
W型碗头挂板



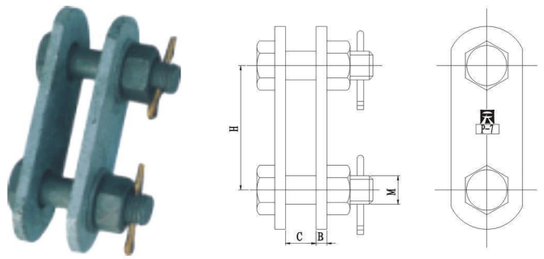
WS type socket clevis eye
WS型碗头挂板



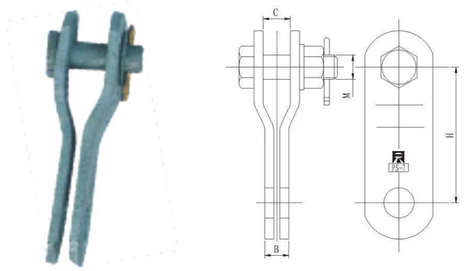
Q、QP、QH、Q-U ball-head shackle
Q、QP、QH、Q-U球头挂环



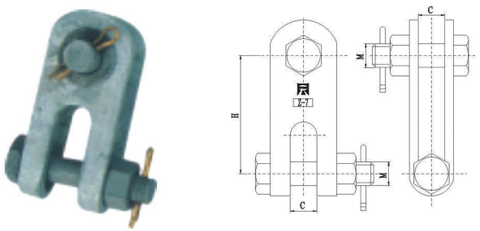
Parallel clevis
P型挂板



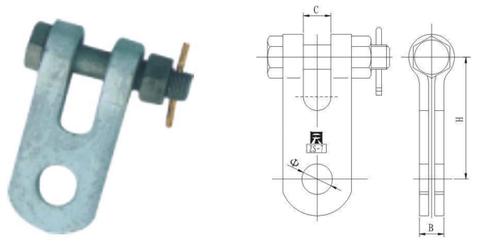
PS type parallel clevis
PS型挂板



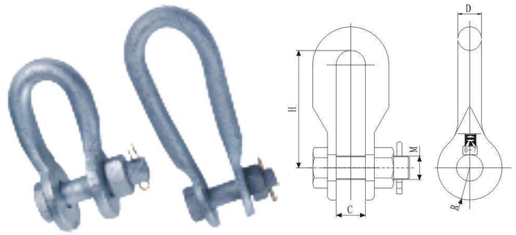
Z type clevis fittings
Z型挂板



ZS type clevis fittings
ZS型挂板



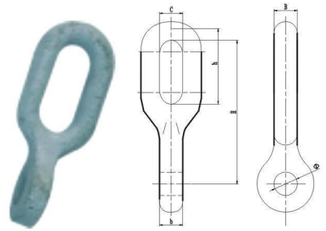
U、UL type shackle
U、UL型挂环



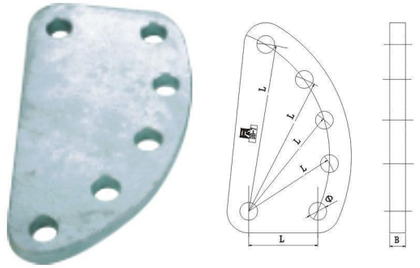
PH extended shackle
PH延长环



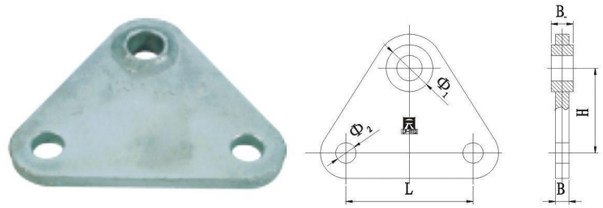
ZH type shackle
ZH型挂环



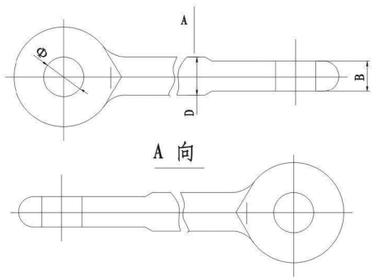
DB adjusting plate
DB调整板



LV type yoke plate
LV型联板



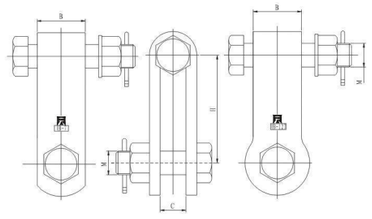
YI、YLP type pulling pole
YI、YLP型拉杆



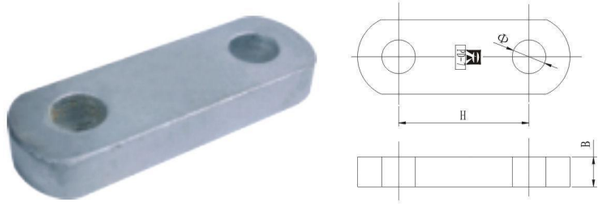
U sharp bolts
U型螺丝



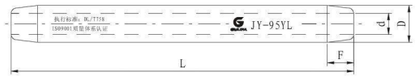
UB type clevis fittings
UB型挂板



PD type clevis fittings
PD型挂板



JY-YL type continuous tube
JY-YL型绝缘导线用接续管



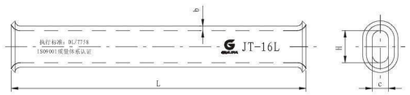


JT type continuous tube (pliers compression)
JT型接续管(钢芯铝绞线用、钳压)



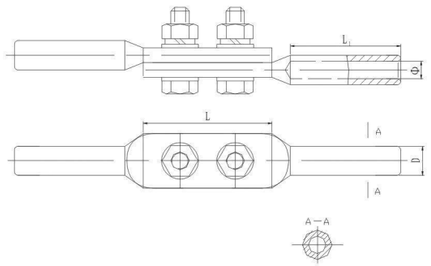


JT-L type continuous tube (pliers compression)
JT-L型接续管(铝绞线用、钳压)



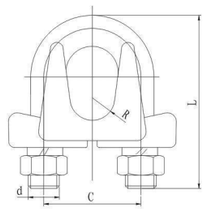
JYT type jumper clamps
JYT型跳线线夹





JK、JKL steel wire clip
JK、JKL钢线卡子



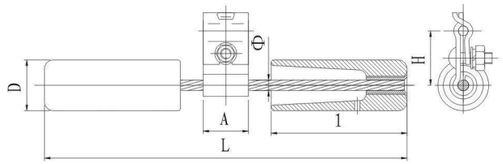


Core type ring
心型环

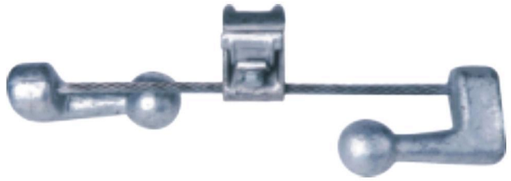


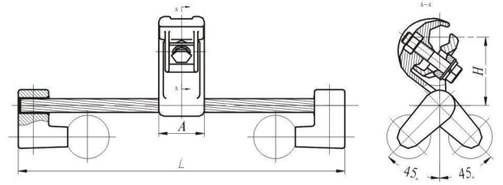
FD、FG type damper
FD型、FG型防振锤





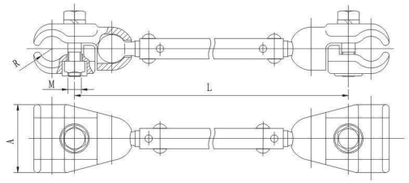
FDZ type damper
FDZ型防震锤





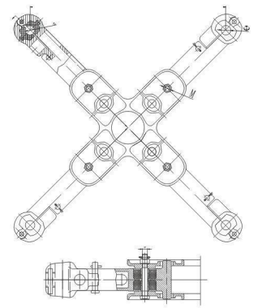
FJQ type spacer
FJQ型间隔棒





FJZ-L type spacers(applicable for four conductors)
FJZ-L 口分裂阻层



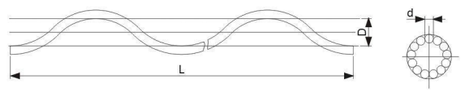


FLD-1 Aluminum binding tape
FLD-1铝包带



YJB prefabricated stranded silk Amendment pieces
YJB预绞丝补修条





JJC series Insulation piercing clamp

JJC系列穿刺线夹

Usage: applicable for the connection of brach wires imported from main wires on low-voltage insulation line and for the connection of copper-Aluminum transition.

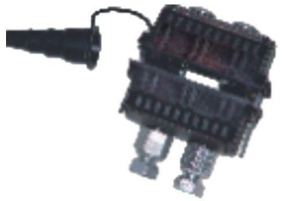
Characteristics:

1. The clamp with special contacting tooth piece don't get rid of skin of insulation conductors when installing .
2. Being free from damaging conductor by using bolt in order to assure better electric contacting.
3. Self-sealed structure, moisture-proof, water-proof, corrosion-proof, applicable wide range, long service life.

用途：适用于低压绝缘线路上从主接线进口的支路接线和铜铝过渡接线。

特性：1. 安装时，带有特殊的接触齿片,不用去除绝缘导线的外皮。
2. 采用螺栓使导体不受损伤，以保证更好的电接触。
3. 自密封结构，防潮、防水、耐腐蚀，适用范围广，使用寿命长。





JJE series “C” type clamp

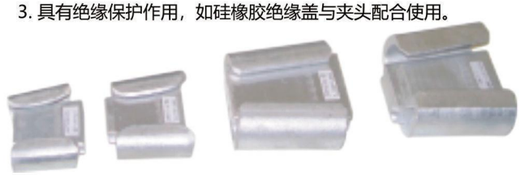
JJC系列“C”型线夹

Usage: applicable for conductor continuing and connection of branch line in overhead line.

Characteristics: 用途：适用于架空线路中导线的连续和支路的连接。

1. Big electric contacting surface and good contacting big-carrging current, low resistance rate.
2. By adapting spring installation, it is convenient and reliable to benefit from high sky operation.
3. With insulation protective role if silicon rubber insulation covers match to use with clamps.

特性：1. 大的电流接触面，通过的电流大，额定电阻低。
2. 采用弹簧安装，方便可靠，有利于高空作业
3. 具有绝缘保护作用，如硅橡胶绝缘盖与夹头配合使用。







$J10FKL_1$
绝缘铝分支线夹
Insulation Aluminum branch clamps



Bolt type copper、Aluminum、copper-Aluminum branch clamps
螺栓型铜、铝、铜铝分支线夹

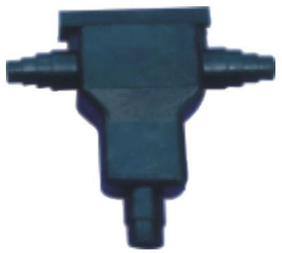
$J10FKL_3$ $J10FKT_3$ $J10FKG_3$



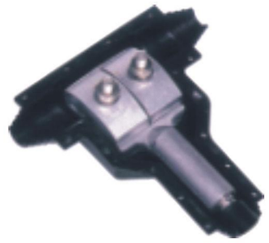
$J10FKG_1$
绝缘铜铝分支线夹
Insulation copper-Aluminum branch clamps



Insulation cover
绝缘罩



$J10FKL_2$
绝缘铝分支线夹
Insulation Aluminum branch clamps



JDB type testing electricity earth line ring device
JDB型验电接地线环装置



J10DL series insulation earth clamps
J10DL系列绝缘接地线夹



JDL_3 series insulation earth clamps
JDL_3 一体型绝缘接地线夹

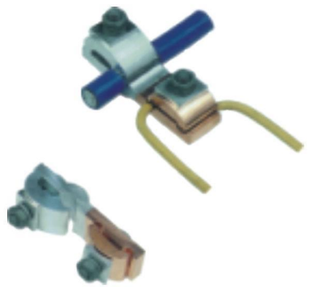


JTKG series input-indoor clamps and insulation covers

JTKG系列低压进户线夹与绝缘罩



JTKG$_1$



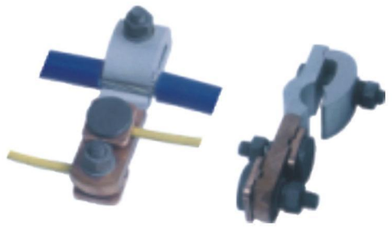
JTKG$_2$



JTKG$_3$



JTKG$_4$

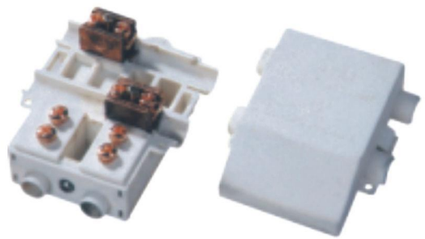


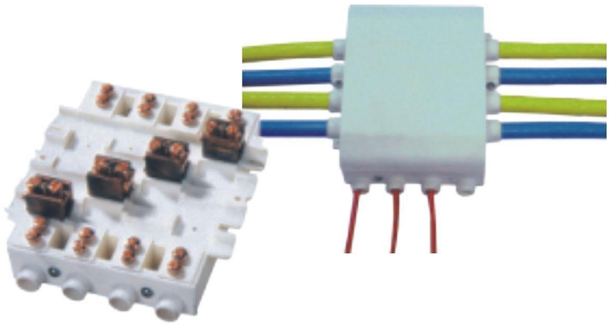
JTKG$_5$



Conductor branch clamps

导线分支器





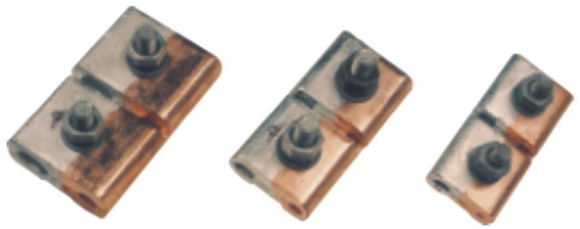
JBK、JBT、JBKG cross-sector parallel clamps

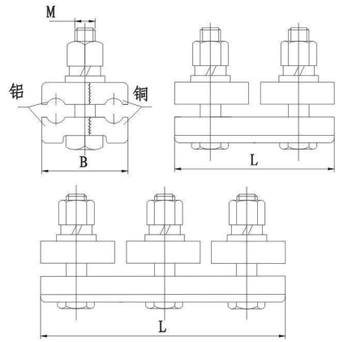
JBK、JBT、JBKG跨径并沟线夹

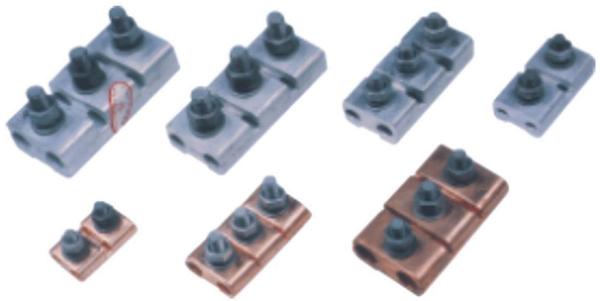


JB、JBT、JBTL parallel clamps

JB、JBT、JBTL并沟线夹





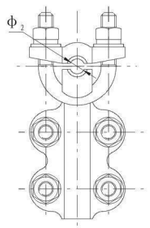


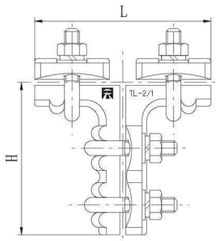


Insulation cover

TL series bolt type “T” shape clamps
TL系列螺栓型T型线夹

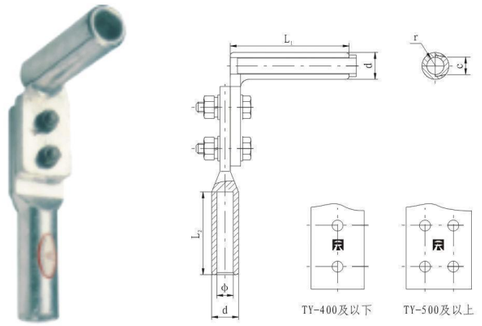




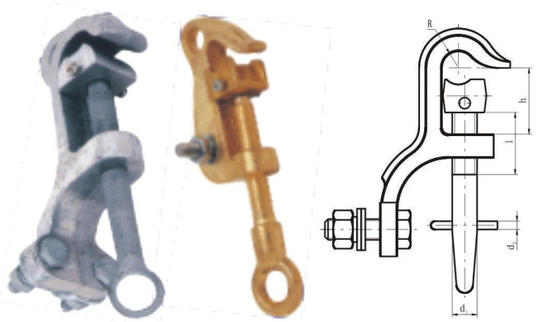




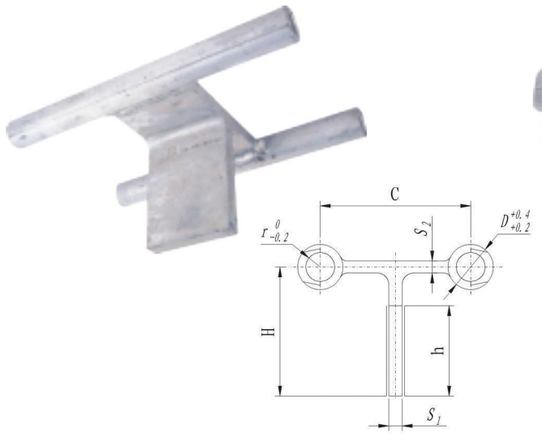
TY series compression type “T” shape clamps
TY系列压缩型T型线夹



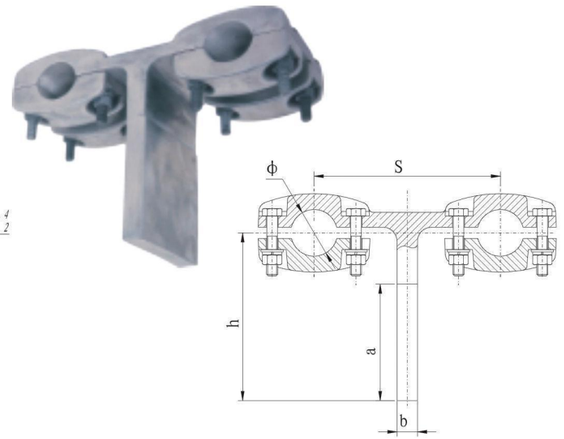
YZ with electric installing and discharging clamps
Yz带电装卸线夹



TLS double conductor bolt type “T” shape clamps
TLS双导线螺栓型T型线夹

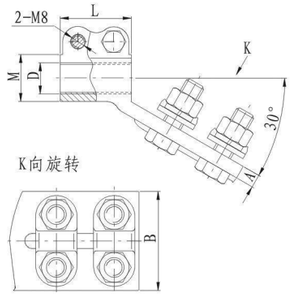


TYS double conductor compression type “T” shape clamps
TYS双导线压缩型T型线夹

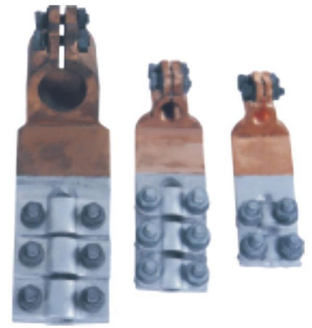


SBJ series copper holding pole clamps
SBJ系列铜抱杆线夹



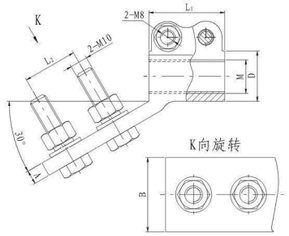


SBG series copper-Aluminum holding pole clamps
SBG系列铜铝抱杆线夹

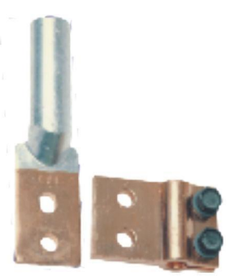


SBJ2 two holes type copper holding pole clamps
SBJ2双孔型铜抱杆线夹

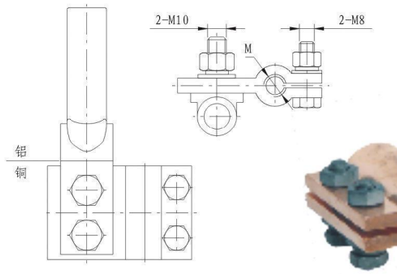


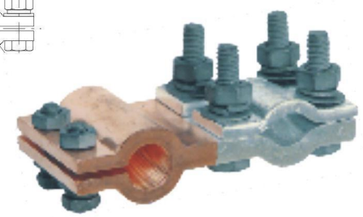


SLW series whorl type terminal clamps
SLW系列螺纹式设备线夹



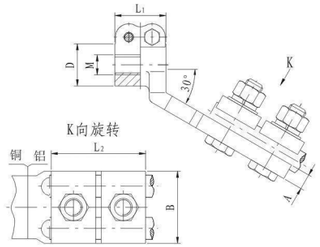






SBG-S copper-Aluminum double conductor holding pole clamps
SBG-S铜铝双导线抱杆线夹



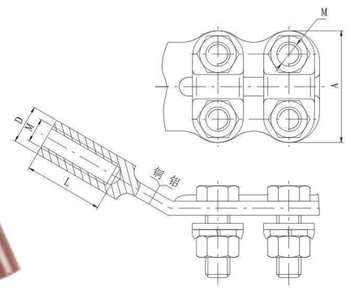




SBG2 whorl tubular clamps

SBG2螺纹线夹





抱压式设备线夹



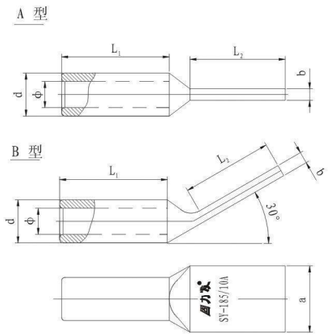
SY compression type Aluminum clamps

SY系列压缩型铝设备线夹

SY(T) compression type copper clamps

SY(T)系列压缩型铜设备线夹





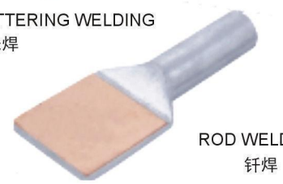


SYG compression type copper-Aluminum clamps

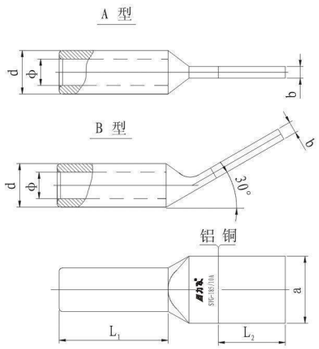
SYG系列压缩型铜铝过渡设备线夹A(B)



GLITTERING WELDING
闪光焊

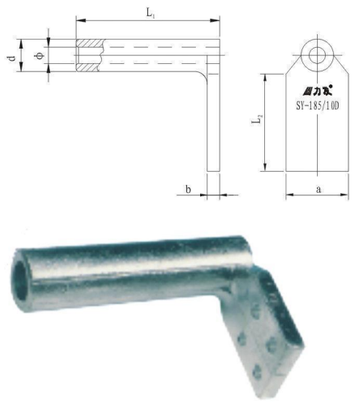


ROD WELDING
钎焊



SY compression type Aluminum clamps

SY系列压缩型铝设备线夹D

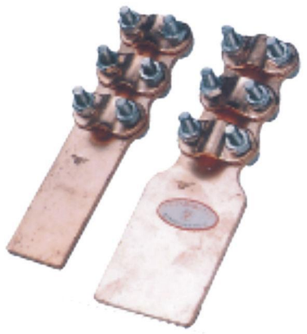


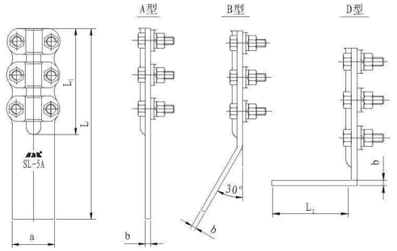
ST bolt type copper clamps

ST系列螺栓型铜设备线夹

SL bolt type Aluminum clamps

SL系列螺栓型铝设备线夹







SLG bolt type copper-Aluminum clamps

SLG螺栓型铜铝设备线夹

GLITTERING WELDING
闪光焊



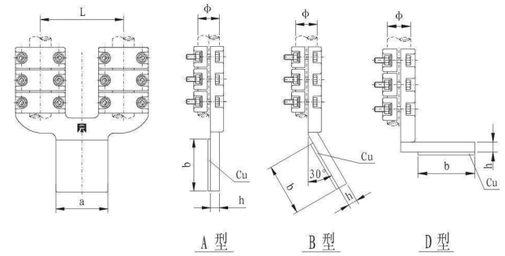
FRICTION WELDING
摩擦焊



SLSG series bolt type large section double conductor copper-Aluminum terminal clamps

SLSG系列螺栓型大截面双导线铜铝设备线夹(钎焊)

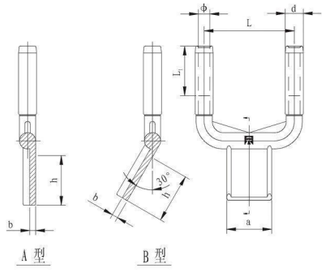




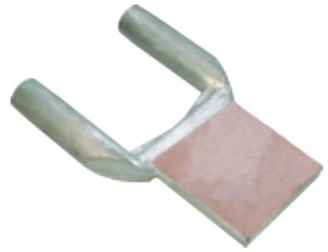


SYS compression type double conductors Aluminum clamps
SYS系列压缩型双导线铝设备线夹





SYSG copper-Aluminum transition clamps
SYSG铜铝设备线夹(钎焊)



MG series copper-Aluminum transition plate
MG系列铜铝过渡板

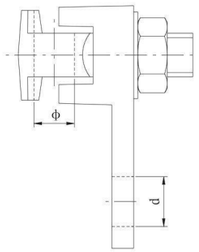






Activity clamps
活动线夹







COPPER TERMINAL
铜接线端子



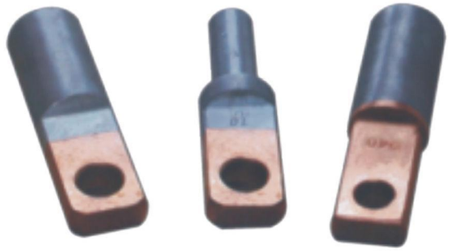
Outdoor water-proof copper terminal
户外防水铜接线端子



Outdoor double-hole copper terminal
户外双孔铜接线端子



European-style branch box copper terminal
欧式电缆分接箱用铜接线端子



European-style branch box copper-aluminurn terminal
欧式电缆分接箱用铜铝接线端子



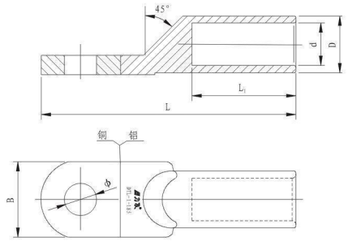
American-style branch box copper terminal
美式电缆分接箱铜接线端子



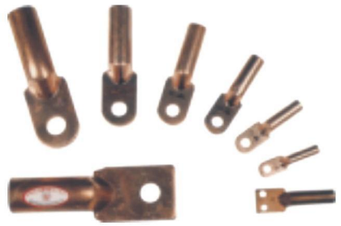
American-style branch box copper terminal
美式电缆分接箱铜接线端子

DTL-1 series copper-Aluminum wiring lugs
DTL-1系列铜铝接线端子





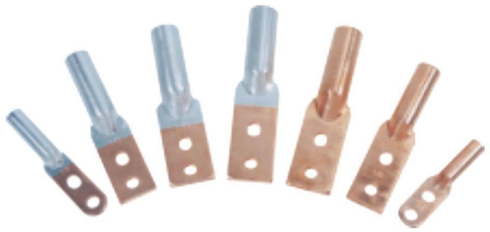
DT series copper wiring lugs
Dt系列铜接线端子

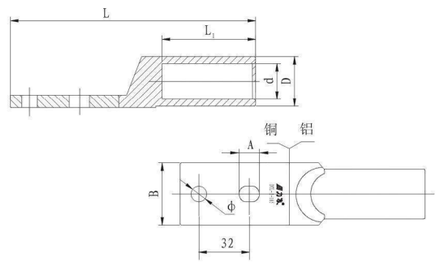


DL series Aluminum wiring lugs
DL系列铝接线端子

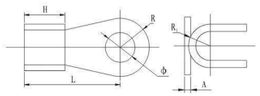


DTL-2 series copper-Aluminum double holes type wiring lugs
DTL-2系列铜铝双孔型接线端子





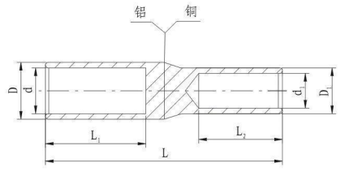
OT copper open mouth wiring lugs
OT铜开口接线端子





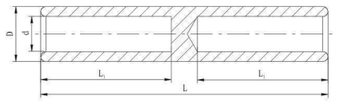


GTL series copper-Aluminum connecting tube
GTL系列铜铝连接管

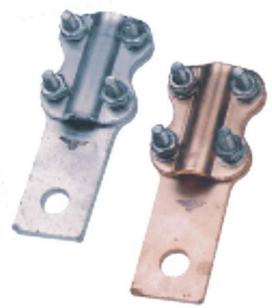


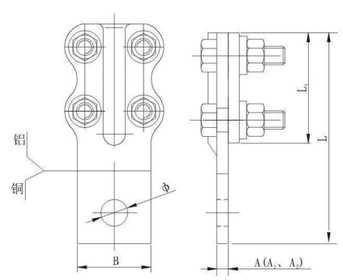


GT、GL series copper、Aluminum connecting tube (oil plugging)
GT、GL系列铜、铝连接管(堵油)



JT、JL、JTL series copper、Aluminum、copper-Aluminum jointing clamps
JT、JL、JTL系列铜、铝、铜铝接线夹







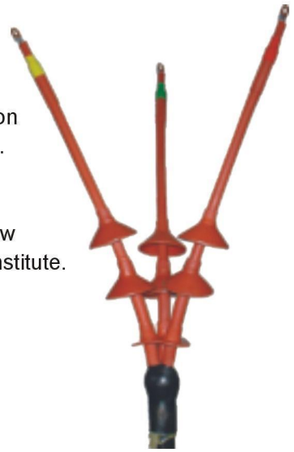
Pre-insulated terminal
预绝缘端子

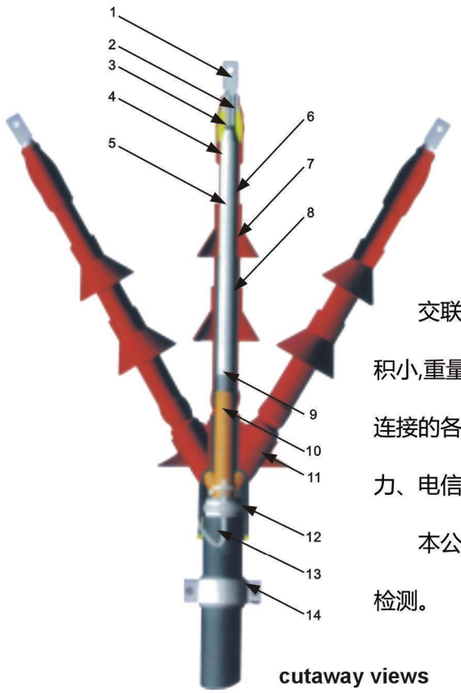


RADIATION CROSS-LINKED HEAT-SHRINKABLE CABLE ACCESSORIES

Cross-linked heat-shrinkable accessories of power cable are the latest products in domestica cable accessory business. With some features of small volume, Light weight, reliable performance, good suitability, and easy installment. It is applicable to the parts of indoor, outdoor end connection and middle connection of all kinds of power cable (Cross linked cable, plastics cable and oiled cable). And it is used in all fields of national economy such as power, telecommunication, petrochemistry, railway, port and building constructor.

Our company can produce all types of cable accessories of 35kV and below 35kV voltage grade and has passed the test by WuHan high-Voltage research institute.





cutaway views

辐射交联热缩电缆附件

交联热收缩电力电缆附件的最新的产品在国内有线电视配件业务中,具有体积小,重量轻,性能可靠,适用性好,安装方便,适用于室内的部分,室外连接端和中间连接的各种电力电缆(交叉连接电缆,塑料电缆和油电缆的优点)。广泛应用于电力、电信、石油化工、铁路、港口、建筑施工等国民经济的各个领域。

本公司可生产35kV及35kV以下各类电缆附件，并已通过武汉高压研究院检测。

Technical performance of heat-shrinkable accessories

热缩电缆附件性能

Type & Specification

□ S □ - □ / □ • □

- Applicable section order number
- Applicable cable core numbers
- Cable insulation type
- Heat shrinkable type
- Ambient category

□ S □ – □ / □ . □

□ 目录

S 热缩型

□ 绝缘型

□ / □ 适用电缆芯数

□ 设计序号

1kV heat-shrinkable termination of low voltage insulated cable:

1kV低压绝缘电缆热缩端子

电缆区域		芯数				
序号		单芯	双芯	三芯	四芯	五芯
Cable section		Number of cores				
NO.		Single-core	Two cores	Three cores	Four cores	Five cores
0		SY-1/1.0	SY-1/2.0	SY-1/3.0	SY-1/4.0	SY-1/5.0
1		SY-1/1.1	SY-1/2.1	SY-1/3.1	SY-1/4.1	SY-1/5.1
2		SY-1/1.2	SY-1/2.2	SY-1/3.2	SY-1/4.2	SY-1/5.2
3		SY-1/1.3	SY-1/2.3	SY-1/3.3	SY-1/4.3	SY-1/5.3
4		SY-1/1.4	SY-1/2.4	SY-1/3.4	SY-1/4.4	SY-1/5.4



1kV heat-shrinkable middle joints of low voltage insulated cable:

1kV低压绝缘电缆热缩内接头

电缆区域		芯数				
序号						
Cable section		Number of cores				
NO.						
0		JSY-1/1.0	JSY-1/2.0	JSY-1/3.0	JSY-1/4.0	JSY-1/5.0
1		JSY-1/1.1	JSY-1/2.1	JSY-1/3.1	JSY-1/4.1	JSY-1/5.1
2		JSY-1/1.2	JSY-1/2.2	JSY-1/3.2	JSY-1/4.2	JSY-1/5.2
3		JSY-1/1.3	JSY-1/2.3	JSY-1/3.3	JSY-1/4.3	JSY-1/5.3
4		JSY-1/1.4	JSY-1/2.4	JSY-1/3.4	JSY-1/4.4	JSY-1/5.4



XLEP heat-shrinkable accessories for 10kV cross-linked polythene cable

XLEP系列10kV交联聚乙烯电缆热缩配件

电缆区域		户外热缩端子		户内热缩端子	热缩中节点	
序号		单芯	双芯	三芯	四芯	五芯
Cable section		Heat-shrinkable termination outdoor		Heat-shrinkable termination indoor	Heat-shrinkable middle joints	
NO.		Single-core	Three cores	Single-core	Three cores	Single-core	Three cores
0	10~16	WSY-10/1.0	WSY-10/3.0	NSY-10/1.0	NSY-10/3.0	JSY-10/1.0	JSY-10/3.0
1	25~50	WSY-10/1.1	WSY-10/3.1	NSY-10/1.1	NSY-10/3.1	JSY-10/1.1	JSY-10/3.1
2	70~120	WSY-10/1.2	WSY-10/3.2	NSY-10/1.2	NSY-10/3.2	JSY-10/1.2	JSY-10/3.2
3	150~240	WSY-10/1.3	WSY-10/3.3	NSY-10/1.3	NSY-10/3.3	JSY-10/1.3	JSY-10/3.3
4	300~630	WSY-10/1.4	WSY-10/3.4	NSY-10/1.4	SY-10/3.4	JSY-10/1.4	JSY-10/3.4



Heat-shrinkable accessories for oiled cable

油浸式电缆热缩配件

电缆区域		户外热缩端子		户内热缩端子	热缩中节点	
序号		单芯	双芯	三芯	四芯	五芯
Cable section		Heat-shrinkable termination outdoor		Heat-shrinkable termination indoor	Heat-shrinkable middle joints	
NO.		Single-core	Three cores	Single-core	Three cores	Single-core	Three cores
1		WSY-10/1.1	WSY-10/3.1	NSY-10/1.1	NSY-10/3.1	JSY-10/1.1	JSY-10/3.1
2		WSY-10/1.2	WSY-10/3.2	NSY-10/1.2	NSY-10/3.2	JSY-10/1.2	JSY-10/3.2
3		WSY-10/1.3	WSY-10/3.3	NSY-10/1.3	NSY-10/3.3	JSY-10/1.3	JSY-10/3.3



XLEP heat-shrinkable accessories for 35kV cross-linked polythene cable

XLEP系列10kV交联聚乙烯电缆热缩配件

cable section	户外热缩端子		户内热缩端子	
序号	单芯	三芯	单芯	三芯

Cable section		Heat-shrinkable termination outdoor		Heat-shrinkable termination indoor	
NO.		Single-core	Three cores	Single-core	Three cores
1		WSY-35/1.1	WSY-35/3.1	NSY-35/1.1	NSY-35/3.1
2		WSY-35/1.2	WSY-35/3.2	NSY-35/1.2	NSY-35/3.2
3		WSY-35/1.3	WSY-35/3.3	NSY-35/1.3	NSY-35/3.3



Heat-Shrinkable branch bushing

热缩分支套管



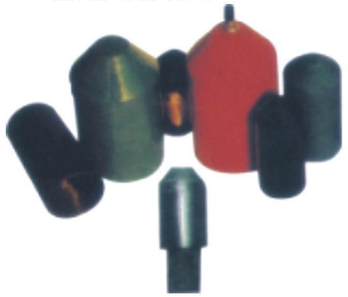
Heat shrinkable rain-proof sleeves

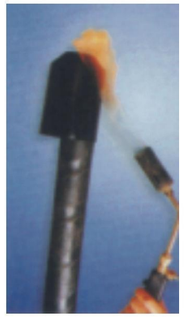
热缩防雨管



heat shrinkable cable end cap

热缩电缆端盖







Heat-shrinkable creepage increaser

热缩漏电保护管





Low voltage flame-retardant heat-shrinkable thin tube

热缩阻燃母版保护套

The procducts have good insulation, flam-retardant shock aging. be widely applied in the communication, electron, aviation, War industry fields, It have U1224 U.S.A. Criterian and CSA22.2 criterian canada. The products are thin wall sleeves.

该产品具有良好的绝缘、阻燃抗震性，广泛应用于通讯、电子、航空、军工等领域，现已拥有U1224美国加拿大标准，产品为薄壁套管。





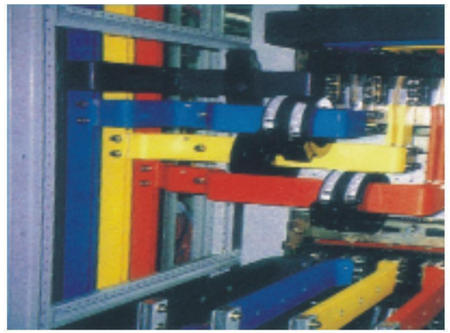


规格	覆盖前大小 (mm) 内径	覆盖后大小 (mm) 内径	单芯长度

Spoecification	Dimension before Recovered (mm) Inside diameter	Dimension after recovered freely (mm) Inside diameter	Length per core(m)
Φ 1.0/0.5	≥1.0	≤0.5	400
Φ 1.5/0.75	≥1.5	≤0.75	300
Φ 2.0/1.0	≥2.0	≤1.0	200
Φ 2.5/1.25	≥2.5	≤1.25	200
Φ 3.0/1.5	≥3.0	≤1.5	200
Φ 3.5/1.75	≥3.5	≤1.75	100
Φ 4.0/2.0	≥4.0	≤2.0	100
Φ 5.0/2.5	≥5.0	≤2.5	100
Φ 6.0/3.0	≥6.0	≤3.0	100
Φ 7.0/3.5	≥7.0	≤3.5	100
Φ 8.0/4.0	≥8.0	≤4.0	100
Φ 9.0/4.5	≥9.0	≤4.5	100
Φ 10.0/5.0	≥10.0	≤5.0	100
Φ 11.0/5.5	≥11.0	≤5.5	100
Φ 12.0/6.0	≥12.0	≤6.0	100
Φ 13.0/6.5	≥13.0	≤6.5	100
Φ 14.0/7.0	≥14.0	≤7.0	100
Φ 15.0/7.5	≥15.0	≤7.5	100
Φ 16.0/8.0	≥16.0	≤8.0	100
Φ 17.0/8.5	≥17.0	≤8.5	100
Φ 18.0/9.0	≥18.0	≤9.0	100
Φ 20.0/10.0	≥20.0	≤10.0	100
Φ 22.0/11.0	≥22.0	≤11.0	100
Φ 25.0/12.5	≥25.0	≤12.5	100
Φ 28.0/14.0	≥28.0	≤14.0	100
Φ 30.0/15.0	≥30.0	≤15.0	100
Φ 35.0/17.5	≥35.0	≤17.5	100
Φ 40.0/20.0	≥40.0	≤20.0	50
Φ 50.0/25.0	≥50.0	≤25.0	50
Φ 60.0/30.0	≥60.0	≤30.0	50
Φ 70.0/35.0	≥70.0	≤35.0	50
Φ 80.0/40.0	≥80.0	≤40.0	50
Φ 90.0/45.0	≥90.0	≤45.0	50
Φ 100.0/50.0	≥100.0	≤50.0	50
Φ 120.0/60.0	≥120.0	≤60.0	25
Φ 150.0/75.0	≥150.0	≤75.0	

Flame-retardant heat-shrinkable motherboard protective bushing
热缩阻燃母版保护套

The products were a good insulated material. It mainly were the same with motherboard sheeted in the high-voltage switch, Power house and transformer substation. It can prevent the eye winker tapping, Little animal of short circuit, prevent surface-man come in the electrical area, preventing short circuit of curdy dew, increasing insulated capability. It's the middle thickness wall (1 metre length).该产品使用良好的绝缘材料,高压开关、发电站和变电站都是采用与母版相同的材质。它可以防止跳电,小动物造成的短路,还可以防止地面工人进来电气区域,防止露水造成的短路,提高绝缘能力。

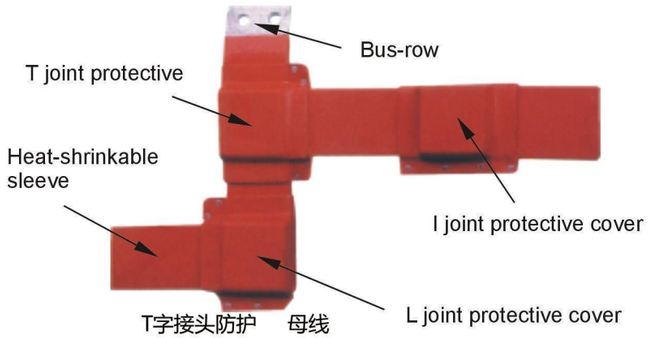


规格	适用母线	覆盖前大小 (mm)	覆盖后大小 (mm)
		内径	内径
Specification	Applicable for busbar	Dimension before recovered (mm)	Dimension after recovered freely (mm)
		Inside diameter	Inside diameter
ϕ20/8	20×2	≥20	≤8
ϕ25/10	25×3	≥25	≤10
ϕ30/12	30×3	≥30	≤12
ϕ40/15	40×4	≥40	≤15
ϕ50/20	50×5	≥50	≤20
ϕ60/25	60×6(8)	≥60	≤25
ϕ70/30	70×8	≥70	≤30
ϕ80/35	80×8(10)	≥80	≤35
ϕ100/40	100×10	≥100	≤40
ϕ120/50	120×10(12)	≥120	≤50
ϕ150/60	150×14	≥150	≤60
ϕ200/70	180×14	≥200	≤70





MPH-Series heat shrinkable bus-bar binding covers
MPH系列热缩母线包装套





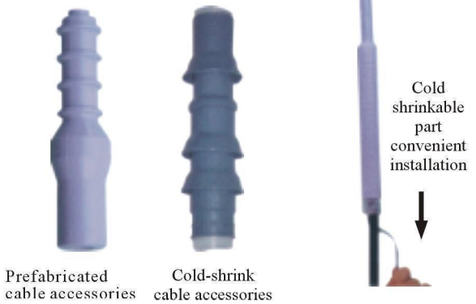


SILASTIC POWER CABLE
硅橡胶电力电缆

Convenient Installation
易安装

Shrinkable technique, no need fire or special tools, no need to jointing or binding copper wire, spring earthing. It can save labour, save time and save place, Every set of products are packed absolutely and attached installation manual.

收缩技术，不需要用火或专用工具，不需要连接或绑扎铜线。弹簧接地，可节省人工，省时省地，每一套产品均绝对包装并附有安装说明书。



Prefabricated cable accessories　Cold-shrink cable accessories

Pattern of the products
产品模式

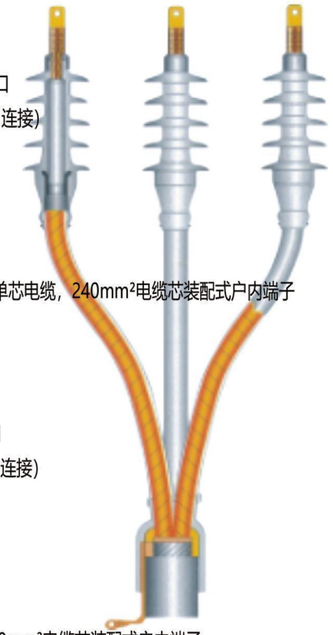
● Prefabricated cable accessories

N(W、J) YZ - 10 / □ . □

- Section code of cable
- Number of cable core
- Voltage grade
- Prefabricated
- Indoor(outdoor, joints)

装配式电缆附件
N(W、J) YZ－10 / 口 . 口
N(W、J)　户外（户内、连接）
YZ　装配式
10　电压等级
口　电缆芯数
口　电缆芯区域
例：NYZ-10/1.9 10kV单芯电缆，240mm²电缆芯装配式户内端子

For example:10kV single core cable,section 240mm² of prefabricated indoor terminal NYZ-10/1.9



● Shrink cable accessories

N(W、J) LS - 10 / □ . □

- Section code of cable
- Number of cable core
- Voltage grade
- Shrink
- Indoor(outdoor,tie-in)

N(W、J)LS－10 / 口 . 口
N(W、J)　户外（户内、连接）
LS　收缩
10　电压等级
口　电缆芯数
口　电缆芯区域
例：10kV三芯电缆，240mm²电缆芯装配式户内端子

For example:10kV three cores cable, section 240mm of prefabricated indoor terminal

Performance of si-lastic material 硅橡胶材质性能

Item 项目	Criterion 标准数据		Testing result 测试结果
Power frequency wet withstand voltage(outdoor) 工业频率耐压(户外)	45kV	1min	Pass
Power frequency dry withstand voltage(indoor) 工业频率耐压(户内)	45kV	1min	Pass
Power frequency long-term withstand voltage 工频长期耐压	35kV	4h	Pass
Surge withstand voltage 冲击耐压	105kV	1.2/5μs±10次	Pass
DC withstand voltage 直流耐压	52kV	15min	Pass
Part discharge 局部放电	13kV	Pc≤20	Pass

Type & Specification 技术参数表

Shrink cable accessories 收缩光缆附件	Prefabricated cable accessories 装配式光缆附件	Applicable section (mm^2) 适用范围
N(W、J)LS-10/3(1).1	N(W、J)YZ-10/3(1).1	25
	N(W、J)YZ-10/3(1).2	35
	N(W、J)YZ-10/3(1).3	50
N(W、J)LS-10/3(1).2	N(W、J)YZ-10/3(1).4	70
	N(W、J)YZ-10/3(1).5	95
	N(W、J)YZ-10/3(1).6	120
N(W、J)LS-10/3(1).3	N(W、J)YZ-10/3(1).7	150
	N(W、J)YZ-10/3(1).8	185
N(W、J)LS-10/3(1).4	N(W、J)YZ-10/3(1).9	240
	N(W、J)YZ-10/3(1).10	300
N(W、J)LS-10/3(1).5	N(W、J)YZ-10/3(1).11	400





- Pay attention to productive quality before use for cold-shrinkable cable accessories;
- Strict surplus requirement for prefabricated cable accessories;
- Make sure the specification of accessories according to the cable insulated diameter in the listed form Below.
- 使用旧缩电缆附件前，应注意生产质量；
- 对装配式电缆附件有严格要求；
- 请确保附件的规格符合下面列出的形式电缆绝缘直径。

Parameter for indoor(outdoor) terminal and mid-tie assembly type.

户内（户外）端子及中节点附件技术参数表

Rule		25	35	50	70	95	120	150	185	240	300	400	500
Aplicable dir range of insulated layer (mm)	Terminal	15.2～17.2	16.9～18.2	17.5～19.5	19.3～21.5	20.9～23.0	22.5～24.5	24.0～26	25.6～28.0	26.7～30.0	28.5～32.5	31.8～35.4	36.7～43.1
	Tie-in	16～17	17～18.5	18.5～20	20～21.5	21.5～23	23～24.5	24.5～26.5	26～28.5	28～31	30～33.5	33.5～37	

规格	
绝缘层适用范围直径(mm)	端子
	接头

Cold-shrinkable power cable middle joints
冷缩式电力电缆中节点

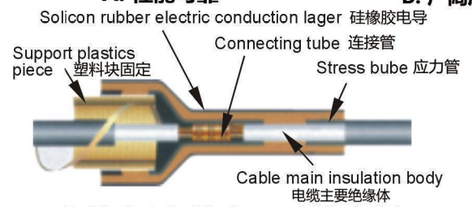


THE CHARACTERISTICS OF POWER CABLE MIDDLE JOINT

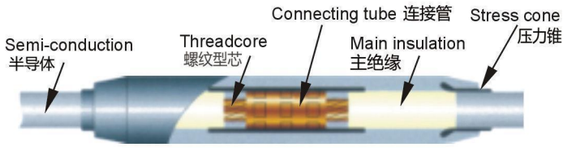
A、Reliable Capability
A. 性能可靠

B、Broad Application
B. 广阔应用

C、Convenient Installation
C. 安装方便



Cold-shrinkable type middle joint tube runawav view
冷缩式电力电缆中节点截面图



Prefabricated cold shrinkable type middle joint tube runaway view
装配式冷缩型电力电缆中节点截面图

8.7/15KV SI-LASTIC COLD-SHRINKABLE CABLE JOINTS

name	type	applicable sector (mm^2)
Single core middle joint	JLS-15/1.1	25-50
	JLS-15/1.2	70-120
	JLS-15/1.3	150-240
	JLS-15/1.4	300-500
Three cores middle joint	JLS-15/3.1	25-50
	JLS-15/3.2	70-120
	JLS-15/3.3	150-240
	JLS-15/3.4	300-500

8.7/15kV硅橡胶冷缩式电缆接头

名称	型号	适用范围 (mm^2)
单芯中节点	JLS-15/1.1	25-50
	JLS-15/1.2	70-120
	JLS-15/1.3	150-240
	JLS-15/1.4	300-500
三芯中节点	JLS-15/3.1	25-50
	JLS-15/3.2	70-120
	JLS-15/3.3	150-240
	JLS-15/3.4	300-500

26/35KV SI-LASTIC COLD-SHRINKABLE CABLE JOINTS

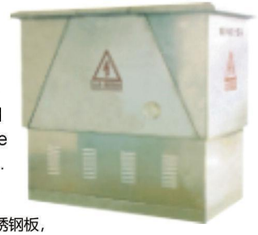
name	type	applicable sector (mm^2)
Single core middle joint	JLS-35/1.1	50-185
	JLS-35/1.2	240-500
Three cores middle joint	JLS-35/3.1	50-185
	JLS-35/3.2	240-500

26/35kV硅橡胶冷缩式电缆接头

名称	型号	适用范围 (mm^2)
单芯中节点	JLS-35	50-185
	JLS-35	240-500
三芯中节点	JLS-35	50-185
	JLS-35	240-500

CABLE BRANCH BOX

Products characteristic



DLX Series Cable Branch Box is used for full sealed design outdoor and Ip33 grade box defense. The cable tie stand adopts stainless steel, its shell is made of 2mm high-quality stainless steel plate and the mother-wire room is a sealed room enclosed with 2mm stainless steel plate. The cable tie stand is on the top of mother-wire room is to support double bushing which is to fix cable tie. The distance between cable tie is 180mm. The arrester should be fixed on the back of cable tie, for another, the short circuit indicator and electrify display are fixed inside mother-wire room. All electric parts insideroom will be strictly insulated by silastic.

The shell of cable branch box will be static coating according to the requirement of users.

DLX系列电缆分线盒用于全密封设计的户外和Ip33级箱体防护。电缆拉杆架采用不锈钢材质，外壳采用2mm优质不锈钢板，母线室支撑双套管，固定电缆拉杆。电缆拉杆之间的距离为180mm。避雷器应该固定在电缆拉杆的后面。另一方面，母线室内部固定有短路指示灯和通电显示，所有电气部件在母线室内部均采用硅橡胶绝缘。电缆分线盒外壳可根据用户要求进行静电涂装。

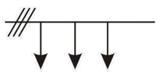
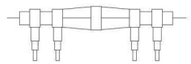
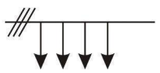
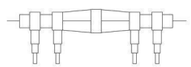
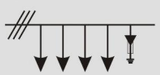
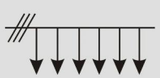
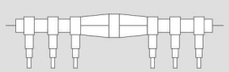
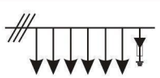
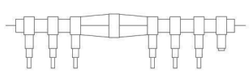
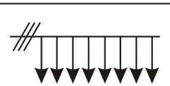
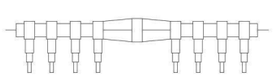
Type&Specification
型号说明

DL×10 ×× ×× ×× ××

- Rated voltage:10kV
- Outdoor cable branch box
  DL × 10 额定电压10kV 户外电缆分接箱
- The type of the branch box:
  P-common
  电缆分接箱类型 P型
  CML-Load switch with CML series
  GE-Load switch with GE series
  GA-Load switch with GA series
  GML系列GML负荷开关
  GE系列GE负荷开关
  GA系列GA负荷开关
- Cable outlet circuit number
  电缆出线电路序号
  1.Cable inlet circuit number
  2.common type represent the total number of the cable branch circuits
  1. 电缆进线电路序号
  2. 常用类型表示电缆分支电路的总数
- Arrester 避雷器
  B install arrester B安装避雷器
  None symbol:no arrester 无标志：无避雷器
- Cable plugger type: 电缆活塞类型
  K-CJK touchable type K-CJK可触型
  None symbol:CJB untouchable type
  无标示: CJB不可触型



Desiged references (typical project) 设计参考（样板示范）

type of product 产品类型	connection project 连接设计	Arrange diagram 排列图	Box size:W×L×H 箱子尺寸 W×L×H
DLX10P-3 or DLX10P-3K			900×700×1100
DLX10P-4 or DLX10P-4K			900×700×1100
DLX10P-4B or DLX10P-4BK			1190×710×1100
DLX10P-6 or DLX10P-6K			
DLX10P-6B or DLX10P-6BK			1440×710×1100
DLX10P-8 or DLX10P-8K			

INSERT AND PULL CABLE JOINT 插入或拔出电缆接头

Insert and pull cable joint
插入或拔出电缆接头



Single through bushing joint
单芯套管接头



HS CDT-15/200

Insert and pull cable joint
插入或拔开电缆接头



Bus bar row
母线行

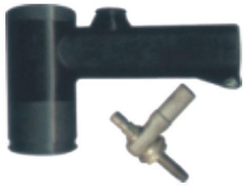


Insulation cap
绝缘盖



HS JM

Single-through bushing joints
单芯套管接头



HS CDT-15/200

Arrester bushing joint
避雷器套管接头



Cable joint
电缆接头



HS CTJ-15/600T

Cable joint
电缆接头



HS CTT-I5/600T-II

Elbow type arrester
弯头式避雷器



Load rotated joint
负载旋转接头



Elbow type earth cable head
弯头式接地电缆头

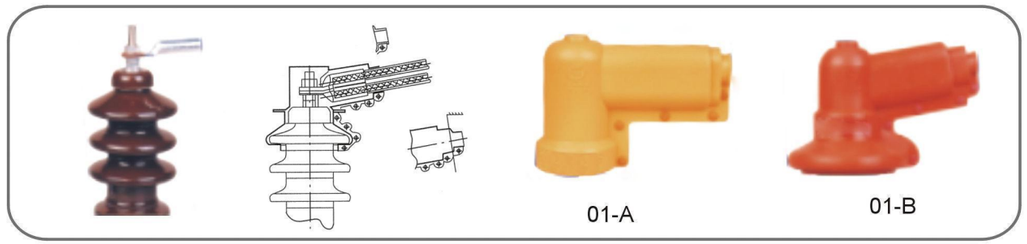


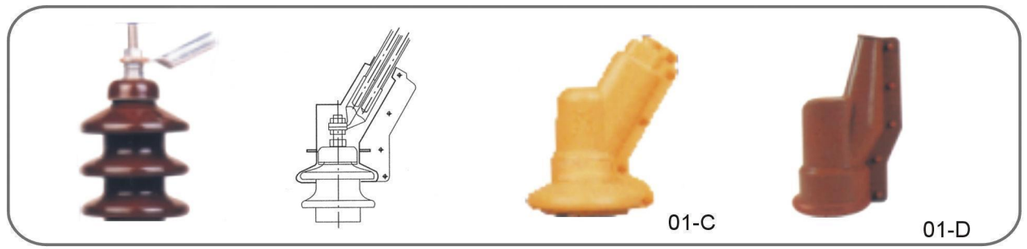
Electric joint-point insulated covers 电气接头绝缘盖

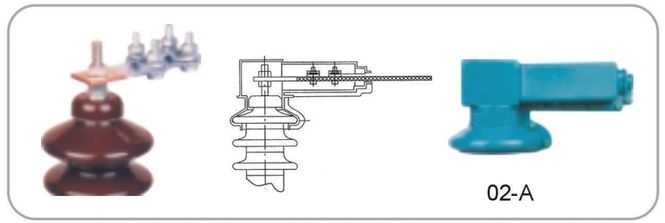
Type & specification 型号说明

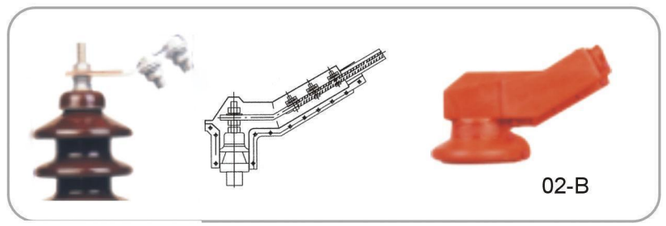
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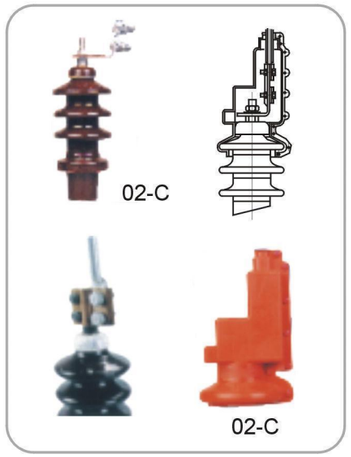
- Additional number (Indicate different specification) □ 附加数字（表示不同的型号）
- Connect type (A—straight、B—upper-slit、C—vertical) □ 连接类型（A-正接、B-上接、C-垂直）
- Matched joint type □ 配套接头类型(D-端子、S-终端线夹、B-抱杆线夹、M-母线、G-隔离开关)
  (D—lug type、S—terminal clamps、B—holding pole clamps、M—bus-bar、G—isolating switch)
- Voltage class (10—10KV、1—1KV) □ 电压等级（10-10kV、1-1kV）
- Terminal category (T—transformer、B—surge arrester) □ 端子类别(T-转移、B-电涌放电器)
- Safety protective covers F 安全

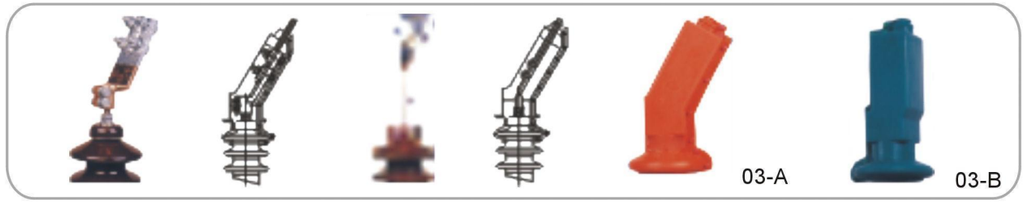


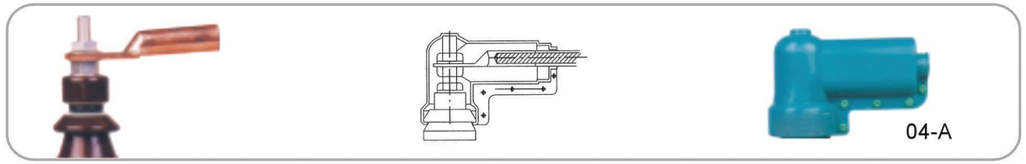


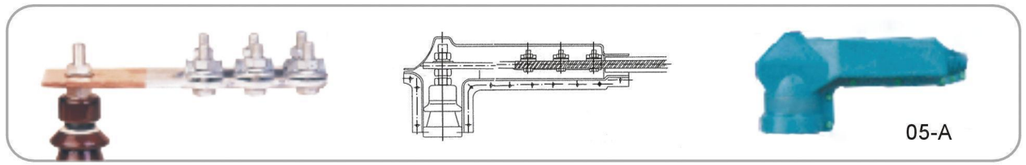


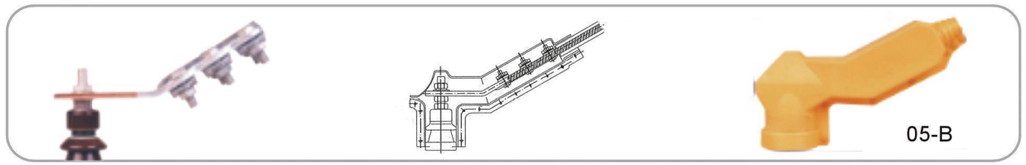


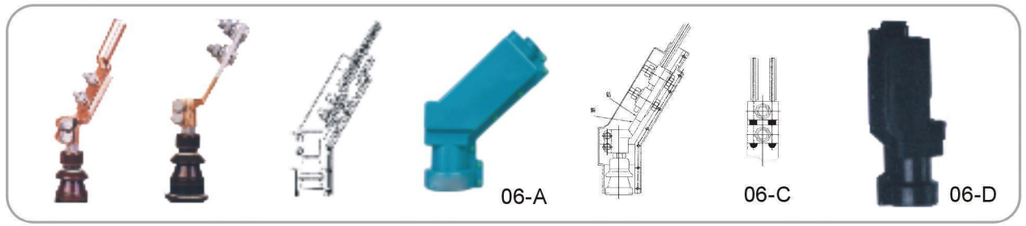


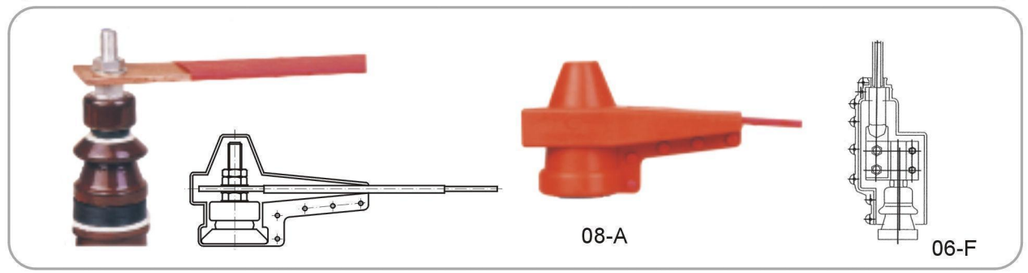


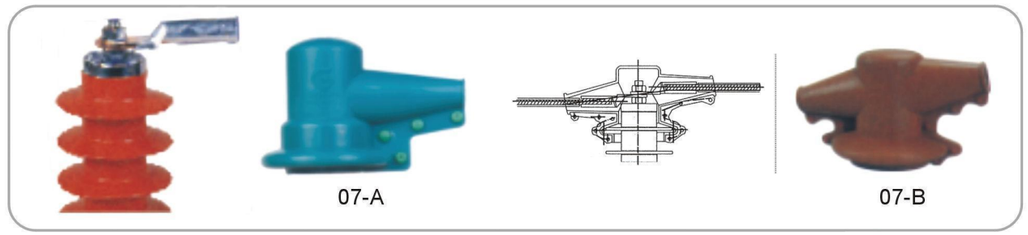








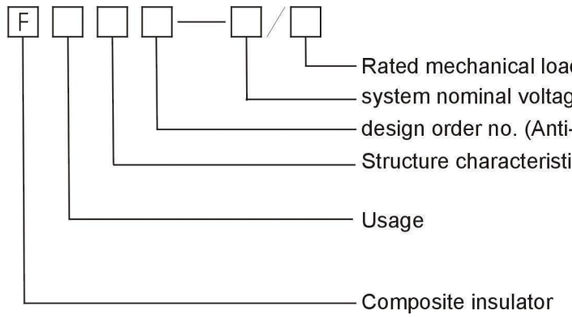




COMPOSITE INSULATOR

Survey: suspension composite insulator for high-voltage line (eg. Suspension composite insulator) with excellent electric performance and good and strong Anti-pollution capability, no human cleaning. High mechanical strength and very strong impulse resistance and shock proof performances, it is an ideal substitute of present porcelain insulators in transporting and installing because of small volume and light weight.

调查:高压线路用悬架复合绝缘子(如悬架复合绝缘子0，具有优良的电气性能和良好的抗污能力，无需人工清洗。机械强度高，抗冲击、防震性能强，体积小、重量轻，是目前陶瓷绝缘子运输安装的理想替代品。



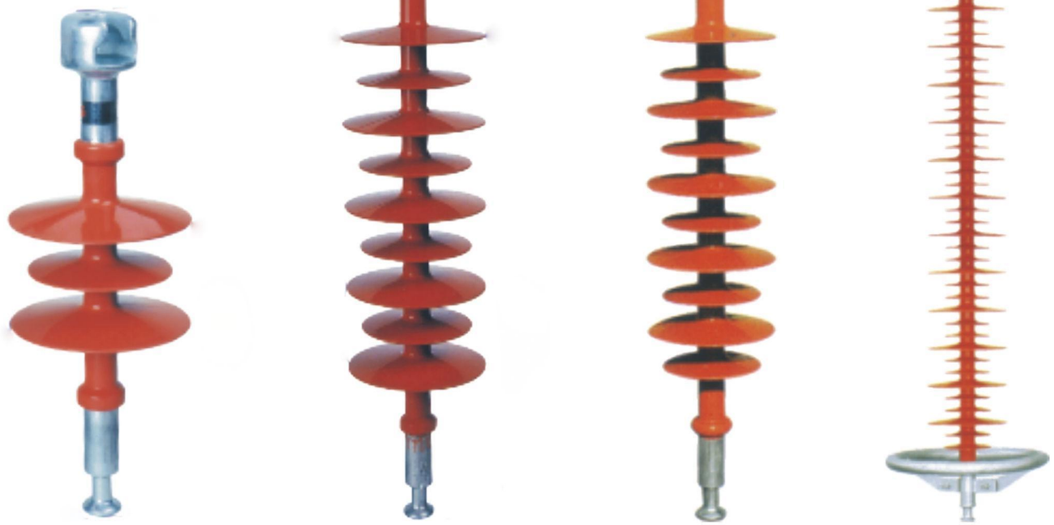
F □□□-□/□
F 复合绝缘子
□ 用途
□ 结构特性
□ 设计序号数字（防污染）
□ 系统标称电压
□ 额定机械负荷

Example:

FXBW— composite rod suspension insulator
FPQ— composite rod pin insulators
FS— composite rod cross-arm insulator
FZS— composite rod post insulator
FQX— electric railway insulators
FCGW— composite dry bushing

例:

FXBW 棒形悬式复合绝缘子
FPQ 复合针式绝缘子
FS 复合跨越绝缘子
FZS 复合柱形绝缘子
FQX 电器铁路绝缘子
FCQW 复合干式套管

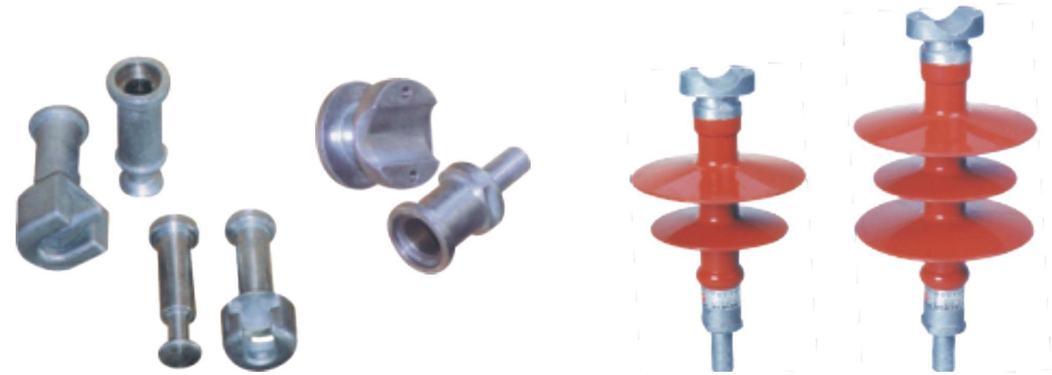


Main technical parameters of composite suspension insulator 复合悬式绝缘子主要技术参数

类型	额定电压 kV	额定机械拉力 KN	结构高度 mm	爬电距离 mm	最小额定爬电距离 mm	雷电冲击耐受电压峰值 kV	频耐压 kV
Type	Rated voltage KV	Rated mechanical tensile load KN	Structure height mm	Creepage distance mm	Minium nominal creepage distance wet power mm	Lightning impulse withstand voltage peak value KV	frequency withstand voltage KV
FBXW$_4$-10/70	10	70		200	480	165	50
FBXW$_4$-10/100	10	100		200	480	165	50
FBXW$_4$-35/70	35	70		450	1200	230	95
FBXW$_4$-35/100	35	100		450	1200	230	95
FBXW$_4$-66/100	66	100		700	2000	410	185
FBXW$_4$-110/100	110	100		1000	3150	550	230
FBXW$_4$-220/100	220	100		1900	6300	1000	395

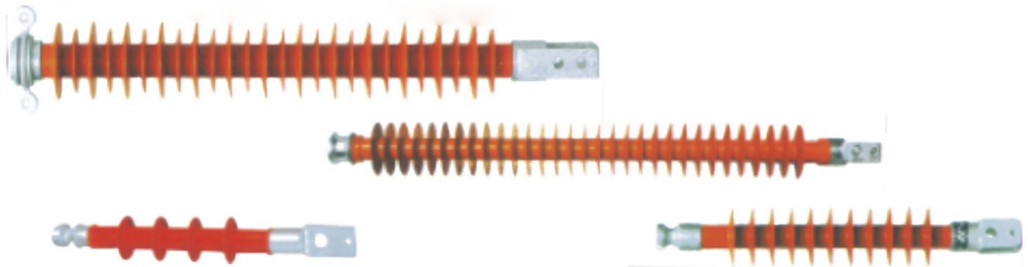
REMARKS: The insulators are adapted by ball and tongue coupling fittings coupling marks for 16, please indicate when ordering if you have other requirements

备注：绝缘子采用球形和舌形连接接头，连接标志为16，如有其他要求，订货时请注明。



Main technical parameters of composite pin insulator 复合针式绝缘子主要技术参数

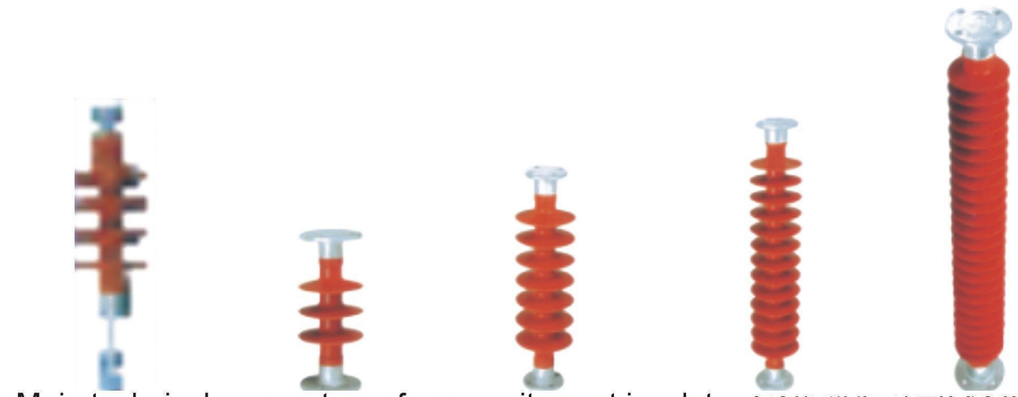
类型	额定电压 kV	额定机械拉力 KN	结构高度 mm	爬电距离 mm	最小额定爬电距离 mm	雷电冲击耐受电压峰值 kV	频耐压 kV
Type	Rated voltage KV	Rated mechanical tensile load KN	Structure height mm	Creepage distance mm	Minium nominal creepage distance wet power mm	Lightning impulse withstand voltage peak value KV	frequency withstand voltage KV
FPQ-10/4T20	10	4		120	280	75	42
FPQ$_4$-10/4T20	10	100		165	460	105	42



Main technical parameters of composite crossarm insulator 复合跨越绝缘子主要技术参数

类型	额定电压 kV	额定机械拉力 KN	结构高度 mm	爬电距离 mm	最小额定爬电距离 mm	雷电冲击耐受电压峰值 kV	频耐压 kV

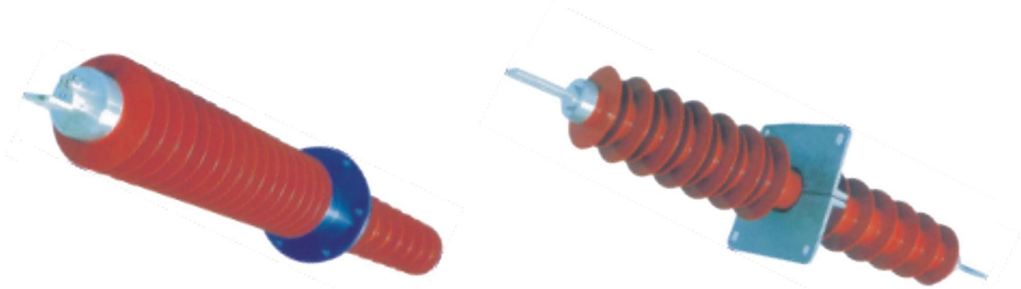
Type	Rated voltage KV	Rated mechanical tensile load KN	Structure height mm	Creepage distance mm	Minium nominal creepage distance wet power mm	Lightning impulse withstand voltage peak value KV	frequency withstand voltage KV
FS-10/5	10	5		180	380	75	40
FS-35/5	35	5		470	1168	265	95
FS-110/10	110	10		1100	2760	550	230



Main technical parameters of composite post insulator 复合柱形绝缘子主要技术参数

类型	额定电压 kV	额定机械拉力 KN	结构高度 mm	爬电距离 mm	最小额定爬电距离 mm	雷电冲击耐受电压峰值 kV	频耐压 kV

Type	Rated voltage KV	Rated mechanical tensile load KN	Structure height mm	Creepage distance mm	Minium nominal creepage distance wet power mm	Lightning impulse withstand voltage peak value KV	frequency withstand voltage KV
FZS-10/4	10	4		125	270	75	42
FZS-35/6	35	6		320	750	185	80
FZS-110/10	110	10		1080	2750	500	230



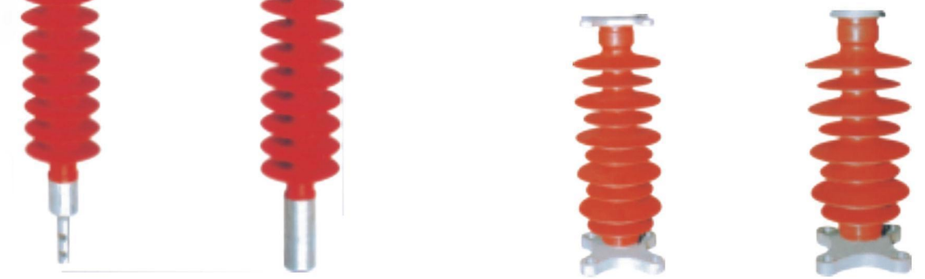
Main technical parameters of composite dry bushing 复合干式套管主要技术参数

类型	额定电压 kV	额定电流A	弯曲断裂载荷 N	允许弯曲载荷 N	雷电冲击耐受电压峰值 kV	频耐压 kV

Type	Rated voltage KV	Rated current A	Bending breaking load N	permitted bending load N	Lightning impulse withstand voltage peak value KV	Frequence withstand voltage KV
	10		1250	625	75	30
	35		1250	625	200	95
	66		1250	625	325	147
	110		1250	625	550	230



Strain insulators



electric railway insulators

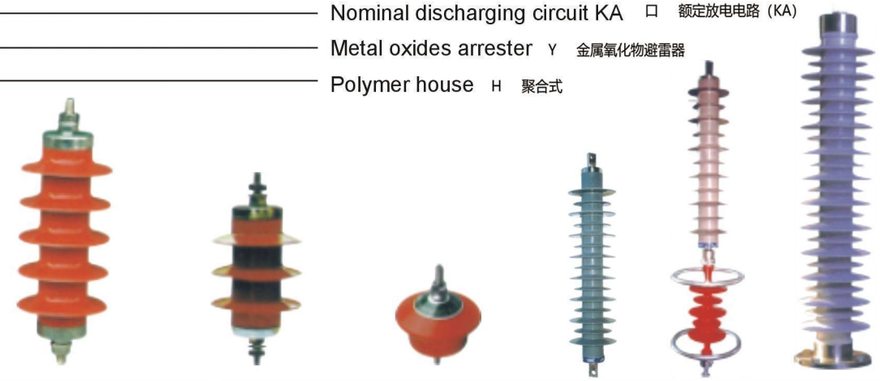
ARRESTER
避雷器

APPLICATION: The zinc oxide arrester applies to protect the electrical equipment in AC power system against the damage resulted from atmospheres over-voltage and operational over-voltage.

应用：氧化锌避雷器是用于保护C电力系统中的电气设备免受大气过电压和运行过电压的损坏。

H Y □ □ □ — □ / □ □

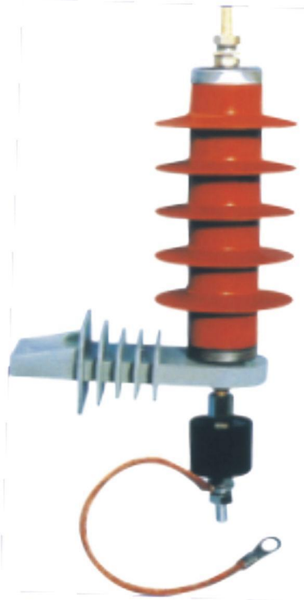
- Operating characteristics: W—antifouling F—plateau □ 使用特性：W-防污染 F-防晕型
- Maximum residual voltage under the nominal discharging current □ 额定放电电流下的最大剩余电压
- Rated voltage of the arrester KV □ 避雷器的额定电压（kV）
- S—power distribution Z—power station R—capacitor group D—generator, motor □ S- 配电 Z- 发电站 R- 电容器组 D-发动机、电动机
- W—without spacing C—with series spacing □ W-无间隔 C-有间隔
- Nominal discharging circuit KA □ 额定放电电路（KA）
- Metal oxides arrester Y 金属氧化物避雷器
- Polymer house H 聚合式



类型	系统标称电压（kV）	额定电压（kV）	持续工作电压（kV）	直流参考电压	残余电压（kV）	2ms 矩形电流（A）	适用范围

Type	System Nominal Voltage KV	Rated Voltage KV	Continuous Operating Voltage KV	DC Reference Voltage (at 1mA) KV	Residual Voltage KV	2ms rectangular current withstand A	Applicable range
YH5WS-3.8/17	3	3.8	2.0	7.5	17.5	100	Distribution type 配电站型
YH5WH-7.6/30	6	7.6	4.0	15.0	30.0	100	
YH5WS-12.7/50	10	12.7	6.6	26.0	50.0	100	
YH5WS-17/50	10	17	12.7	26.0	50.0	100	
YH5WS-7.6/27	6	7.6	4.0	14.5	27.0	200	Power station type 发电站型
YH5WZ-12.7/45	10	12.7	6.6	24.0	45.0	200	
YH5WZ-17/45	10	17	12.7	24.0	45.0	200	
YH5WZ-42/134	35	42	23.4	78.0	134	400	
YH2.5WD-7.6/19	6.3	7.6	4.0	11.5	19.0	200,400	Generator, motor type 发电机、电动机型
YH2.5WD-12.7/31	10.5	12.7	6.6	19.0	31.0	200,400	
YH2.5WD-16.7/40	13.8	16.7	9.0	25.5	40.0	400	
YH2.5WD-19/45	15.75	19	10.0	28.5	45.0	400	
YH5WR-7.6/27	6	7.6	4.0	13.8	27.0	400	Capacitor type 电容器型
YH5WR-12.7/45	10	12.7	6.6	23.0	45.0	400	
YH5WR-42/134	35	42	23.4	73.0	134	400	

HEAT-MELT & HEAT-EXPLOSION DISCONNECTOR
热熔 & 热膨胀隔离开关



HEAT-EXPLOSION



HEAT-MELT

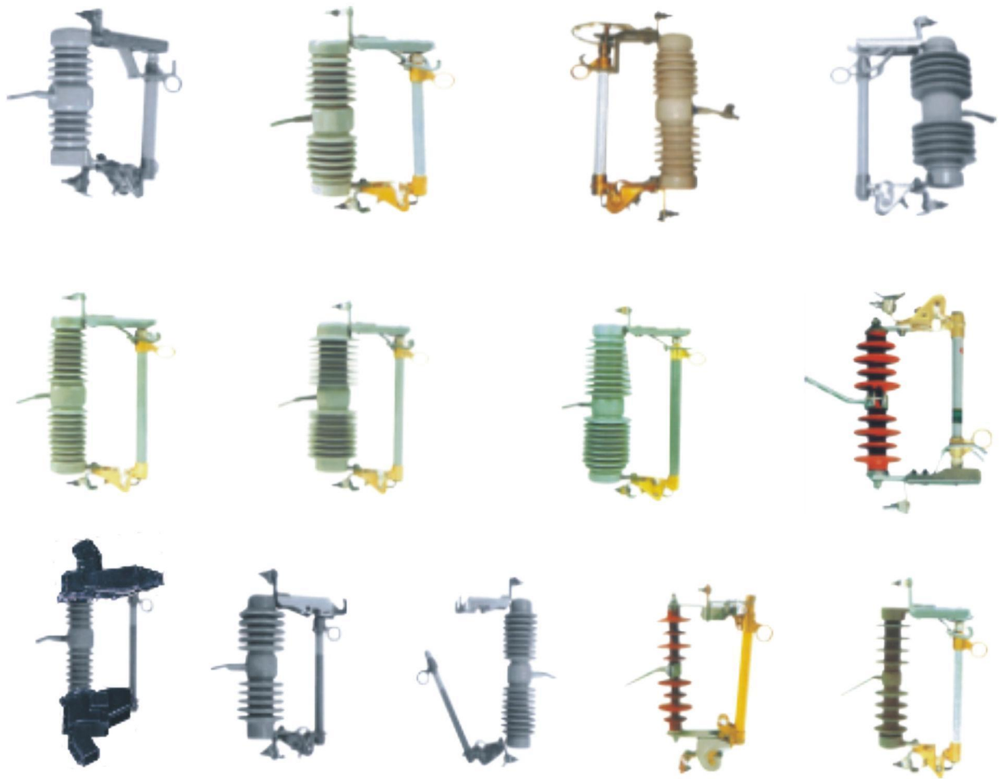
序号	额定电压kV	持续工作电压 kV	长期持续电流

No.	Rated Voltage KV	Continuous Operating Voltage KV	Long duration current withstand class
1	3	2.55	1
2	4.5	3.6	1
3	6	5.1	1
4	7.5	6	1
5	9	7.65	1
6	10	8.4	1
7	11	9.3	1
8	12	10.2	1
9	15	12.7	1
10	18	15.3	1
11	20	16.4	1
12	21	17	1
13	22	17.8	1
14	24	19.5	1
15	27	22	1
16	30	24.4	1
17	33	27.5	1
18	36	29	1
19	39	31.5	1
20	42	34	1
21	45	36.5	1
22	48	39.	1
23	51	40.8	1
24	54	42	1
25	60	48	2、3
26	66	53	2、3
27	69	55.2	2、3
28	72	57	2、3
29	75	60	2、3
30	78	62	2、3
31	84	68	2、3
32	90	70	2、3
33	96	76	2、3
34	102	79.6	2、3
35	108	84	2、3
36	120	98	2、3
37	132	106	2、3
38	138	111	2、3
39	144	115	2、3
40	162	130	2、3
41	168	131	2、3
42	172	140	2、3
43	180	144	2、3
44	192	152	2、3
45	198	160	2、3
46	204	165	2、3
47	216	174	2、3
48	228	182	2、3
49	240	190	2、3

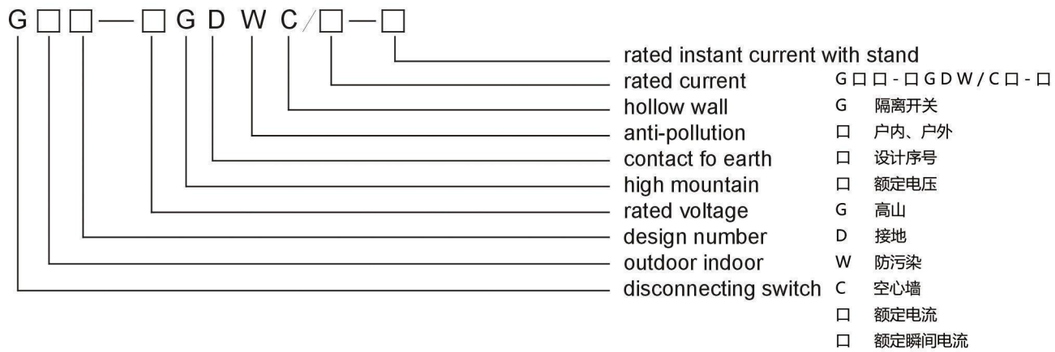
DROP-OUT FUSE 跳开式熔断器

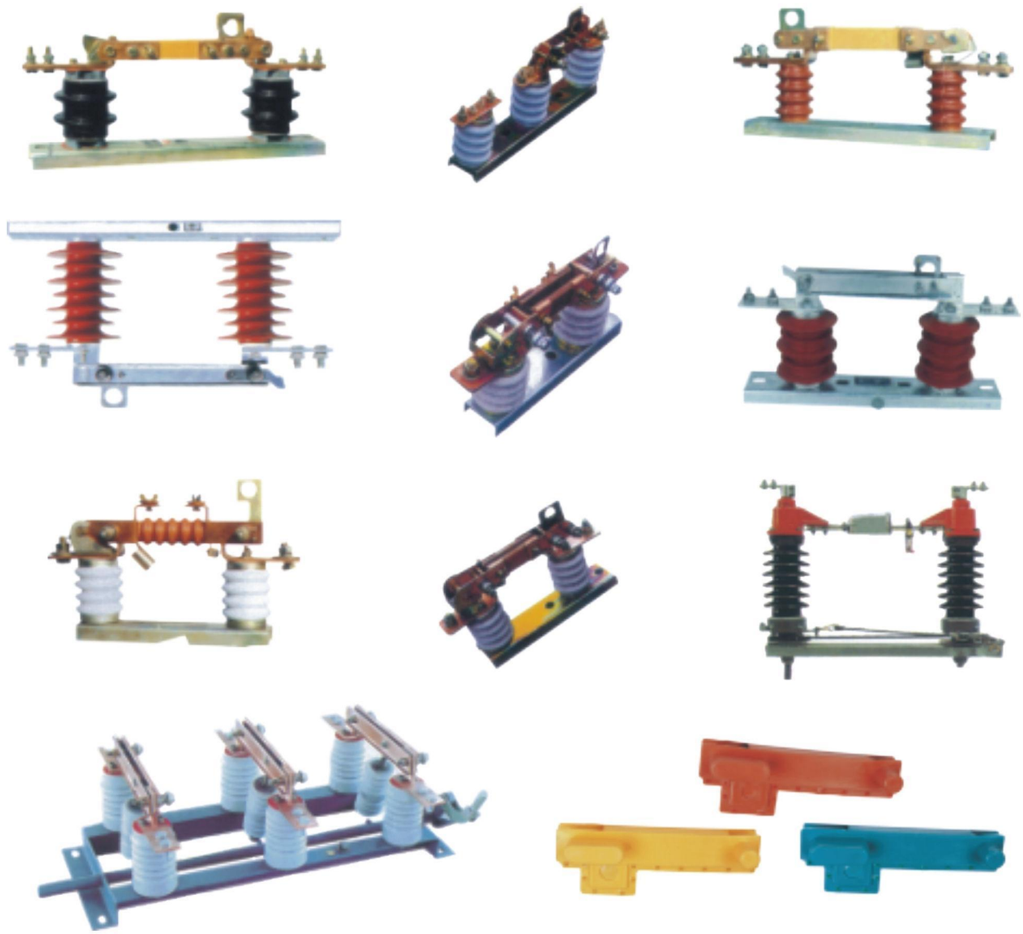
类型	额定电压kV	额定电流 A	暂停工作电流 KA	冲击电流 kV	工频耐压 kV	漏泄距离 (mm)	大小（cm）

Type	Rated Voltage KV	Rated Current A	Break-off Current KA	Impulse Current KV	Power-frequency withstand Voltage KV	Leakage Distance (mm)	Dimensions (cm)
YKF1	15	100(200)	10(12)	110	40	250	.
YKF2	15	100(200)	10(12)	125	45	350	
YKF3	15	100(200)	10(12)	125	45	350	
YKF4	24	100(200)	8(10)	150	65	540	
YKF5	24	100(200)	8(10)	150	65	470	
YKF6	30	100(200)	8(10)	170	70	700	
YKF7	33	100(200)	10(12)	170	70	720	
YKF8	33	100(200)	8(10)	170	70	820	
YKF9	15	100	10	125	45	350	
YKF10	24	100	8	150	65	460	
YKF11	30	100	6	170	70	700	
YKFC1	15	100(200)	10(12)	110	40	350	
YKFC2	15	100(200)	10(12)	110	45	380	



HIGH-VOLTAGE DISCONNECTING SWITCH 高压隔离开关







Self-adhesive tape
自粘带



Nylon binding tape
尼龙捆扎带



Checking-electric bar
检测条

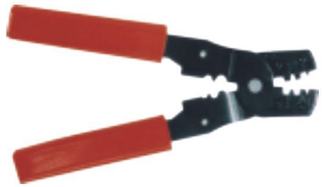


Earth bar
接地棒





Pressure pliers
压力钳



Cool pressure pliers
液压钳





Wire stripper
剥线器



Cable cutter
电缆剪





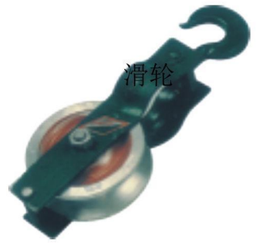
Mechanical tool plier
机械工具钳



Gripping-wire tools
握线工具







滑轮

Pulley
滑轮



ZW20-12F系列户外高压交流分界真空断路器

ZW20-12F Series Outdoor High-voltage Intelligent Cutoff Vacuum Circuit Breaker



一、概述

ZW20–12F系列户外高压交流分界真空断路器(以下简称“分界断路器”)，为三相交流50Hz、额定电压12kV的户外高压开关设备。主要由真空断路器本体、配电自动化馈线终端和电压互感器、控制电缆等部分组成,断路器本体内设真空灭弧室、电流互感器、零序电流互感器等组件。

分界断路器具有远程管理模式、保护控制功能及通讯功能,能可靠判断、检测界内于变电站、工矿企业、城市和农村电网作为控制和保护之用，特别适用于需频繁操作的场所和城市毫安级零序电流及相间故障短路电流，实现自动切除单相接地故障和相间短路故障。

分界断路器采用真空灭弧和SF6气体绝缘,箱体采用了国外先进的气体密封、防爆、绝缘结构技术,整体密封性能优良,其弹簧操作机构采用了小型化设计，性能优良，动作可靠性远高于国内传统的弹簧操作机构。

分界断路器符合GB1984—2014《高压交流断路器》、DL/T 402–2016《高压交流断路器》、DL/T 403—2000 《12kV～40.5kV高压真空断路器订货技术条件》及DL/T 721—2013《配电自动化系统远方终端》等技术标准。

1. Introduction

ZW20-12F Series Outdoor High-voltage Intelligent Cutoff Vacuum Circuit Breaker (hereinafter refer to as the Breaker) is the outdoor high-voltage switch device of three phase current of 50Hz and rated voltage of 12 kV which is mainly composed of vacuum circuit breaker body, distribution automation feeder terminal and voltage transformer, control cable and other parts. The body of the Breaker is equipped with vacuum arc extinguishing chamber, current transformer, zero sequence current transformer and other components.

The Breaker has remote management mode, protection control function and communication function which can reliably judge and detect substations within the boundary, industrial and mining enterprises, urban and rural power grids for control and protection. Especially suitable for places requiring frequent operations and urban milliamp ere-level zero sequence current and interphase fault short-circuit current to realize automatic removal of single - phase grounding fault and phase - to - phase short circuit fault.

The Breaker adopted vacuum extinction and SF6 gas insulation, the tank body adopted foreign advanced gas seal, explosion proof and insulation structure technology. The overall sealing performance is excellent, the spring operating mechanism using miniaturized design, excellent performance, action reliability is much higher than the traditional spring operating mechanism.

The Breaker conforms to the standard of GB1984-2014 *High-voltage Alternating-current Circuit-breakers*、DL/T402-2016 *High-voltage Alternating-current Circuit-breakers*、DL/T403-200012kV~40.5kV *Technical Specification for HV Vacuum Circuit-breaker for Rated Voltage* and DL/T 721-2013 Remote Terminal of *Distribution Automation System*.

二、型号及含义

Z W 20 – 12 F / T □ – □

- 额定短路开断电流(kA)
- 额定电流(A)
- 弹簧操动机构
- 分界
- 额定电压（kV）
- 设计序号
- 户外
- 真空断路器

2. Model and Model Implications

Z W 20 – 12 F / T □ – □

Z Vacuum Breaker

W Outdoor

20 Design Order

12 Rated Voltage (kV)

F Demarcation

T VKCT

□ Rated Current（A）

□ Rated Short Circuit Breaking Current（kA）

三、使用环境条件

☆ 海拔: 不超过1000m, 如海拔高于1000m, 则额定绝缘水平应进行相应修正;

☆ 环境温度: 上限+45℃, 下限–40℃, 最大日温差25K;

☆ 湿度: 日相对湿度平均值≤95%, 月相对湿度平均值≤90%;

☆ 太阳辐射强度: ≥0.1W/cm^2;

☆ 风速: 34m/s;

☆ 风压: 700Pa;

☆ 污秽等级: e级;

☆ 覆冰厚度: ≤10mm;

☆ 耐受地震能力: 水平加速度0.3g, 垂直加速度0.2g。

3. Environmental Condition

Altitude: No more than 1000m. If more than 1000m，the rated insulation level shall be modified accordingly；

Temperature：Upper Limit＋45℃，Lower Limit-40℃，Maximum Daily Range 25K;

Humidity: Daily Average AH≤95%，Monthly Average AH≤90%；

Solar Radiation Intensity;：≥0.1W/cm²

Wind Speed: 34m/s

Wind Pressure: 700Pa

Pollution Level: Level E

Icing Thickness: ≤100mm;

Earthquake Tolerance: Horizontal Acceleration 0.3g, Normal Acceleration 0.2g

四、主要优特点

☆ 与智能电网配套: 可实现三段式保护、零序接地保护、重合闸及远方通信等功能;

☆ 操作灵活方便: 既可电动储能、电动分合, 也可手动储能、手动分合, 并能近距离或远距离操作;

☆ 操作功小、可靠性高: 全新设计的小型化弹簧操作机构的操作功(约30W左右)降低至最低水平;

☆ 密封性能可靠: SF6气体压力为零表压，且采用成熟的密封结构技术, 密封性能可靠, 不易产生泄漏;

☆ 进出线方式独特: 采用硅橡胶套管, 使接线端子之间的绝缘距离充裕, 外绝缘性能优良;

☆ 安全性能优异: 在箱体顶部装有防爆装置, 即使发生内部故障, 也不会有高温气体或飞溅物泄漏出来;

☆ 安装方式灵活: 既可采用杆上吊装方式, 也可采用坐装方式安装;

☆ 额定电流大，达1250A，开断能力强，达25kA。

4. Character

☆ Matching with smart grid: it can realize three-phase protection, zero-sequence grounding protection, reclosing and remote communication and other functions;

☆ Flexible and convenient operation: can be electric energy storage, electric separation and closing, can also be manual energy storage, manual separation and closing, and can be close or long-distance operation;

☆ Small operation power, high reliability: the new design of miniaturized spring operating mechanism operation power (about 30w) reduced to the minimum level;

☆ Reliable sealing performance: SF6 gas pressure is zero surface pressure, and the use of mature sealing structure technology, sealing performance is reliable, not easy to produce leakage;

☆ Unique way of incoming and outgoing wires: silicon rubber sleeve is adopted to ensure sufficient insulation distance between wiring terminals and excellent external insulation performance;

☆ Excellent safety performance: explosion-proof device is installed on the top of the box, even if internal failure occurs, there will be no leakage of high-temperature gas or spatter;

☆ Flexible installation: it can be installed by lifting on the rod or by sitting;

☆ Rated current up to 1250A, strong breaking capacity up to 25Ka.

五、主要技术参数

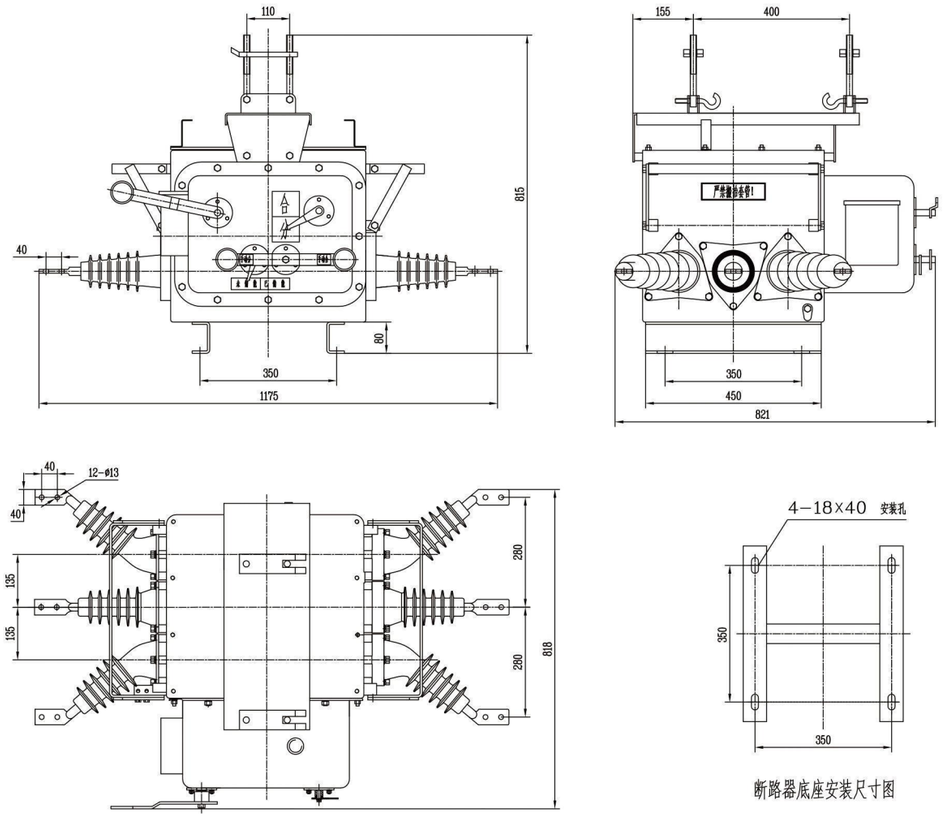
序号	项目		单位	技术参数	
1	额定频率		Hz	50	
2	额定电压		kV	12	
3	额定电流		A	630	1250
4	额定短时工频耐受电压	相间、对地(湿试)	kV/min	34/1	
		相间、对地(干试)		42/1	
		断口(干试)		48/1	
		二次回路对地		2/1	
5	额定雷电冲击耐受电压	相间、对地	kV	75	
		断口		85	
6	额定短路开断电流(有效值)		kA	20	25
7	额定短路关合电流(峰值)			50	63
8	额定短时耐受电流及持续时间		kA/s	20/4	25/4
9	额定峰值耐受电流		kA	50	63
10	额定短路开断电流开断次数		次	30（E2级）	
11	SF6气体额定表压		MPa	0	
12	主回路电阻		μΩ	≤120	
13	额定操作电压及辅助(控制)回路额定电压		V	AC/DC220、DC48、DC24	
14	机械寿命		次	10000（M2级）	
注: 若海拔高于1000m, 则额定绝缘水平应进行相应修正。					

5. Main Technical Parameter

Order	Item		Unit	Technical Parameter	
1	Rated Frequency		Hz	50	
2	Rated Voltage		kV	12	
3	Rated Currency		A	630	1250
4	Rated Power-frequency Short-duration Withstand Voltage	Inter-phase、Surface to surface（slaking test）	kV/min	34/1	
		Inter-phase、Surface to surface（drying test）		42/1	
		Fracture（drying test）		48/1	
		Secondary Circuit surface to surface		2/1	
5	Rated Lightening Impulse withstand Voltage	Inter-phase、Surface to surface	kV	75	
		Fracture		85	
6	Rated Short-circuit Breaking Current（Effective Value）		kA	20	25
7	Rated Short-circuit Close Current (Peak Value)			50	63
8	Rated short-time withstand current and duration		kA/s	20/4	25/4
9	Rated Peak withstand Current		kA	50	63
10	Breaking Times of Rated Short-circuit Breaking Current		Times	30（E2 Level）	
11	SF6 Gas Rated Gauge Pressure		MPa	0	
12	Main circuit resistance		μΩ	≤120	
13	Rated Operating Voltage and Rated Voltage of Auxiliary (control) Circuit		V	AC/DC220、DC48、DC24	
14	Mechanical Endurance		Times	10000(M2 Level)	
Note: If the altitude more than 1000m， the rated insulation level shall be modified accordingly					

六、外形及安装尺寸

Appearance and Installation Method



断路器底座安装尺寸图

七、订货须知

☆ 请注明产品名称、型号;

☆ 请注明额定电压、额定电流及额定短路开断电流;

☆ 请注明所配电流互感器(CT)和电源PT的数量、变比、准确级次及额定容量, 是否需配独立零序CT;

☆ 请注明操动机构及辅助(控制)回路的额定电压;

☆ 请注明所配馈线终端的功能, 如是否配通信模块、带后备电源、带预付费功能等;

☆ 请注明订货数量和交货时间。

7. Ordering Instructions

☆ Please indicate the product name and model;

☆ Please indicate rated voltage, rated current and rated cut-off current;

☆ Please indicate the quantity, variation, accuracy level and rated capacity of current transformer (CT) and power PT, and whether independent zero-sequence CT is required;

☆ Please indicate the rated voltage of operating mechanism and auxiliary (control) circuit;

☆ Please indicate the function of the feeder terminal, such as whether it is equipped with communication module, backup power supply and prepayment function;

☆ Please indicate the order quantity and delivery time.

ZW32-12(G)□ / T 系列户外高压交流智能真空断路器

ZW32-12（G）□/T Series Outdoor High-voltage Interchange Intelligent Vacuum Circuit Breaker



一、概述

ZW32-12(G)□/T系列户外高压交流智能真空断路器(以下简称“智能断路器”), 为额定电压12kV、三相交流50Hz的户外高压配电开关设备, 主要用于开断、关合电力系统中的负荷电流、过载电流及短路电流, 适用于变电站及工矿企业配电系统中作保护和控制之用, 亦可用于农村电网等需要频繁操作的场所。

智能断路器符合GB 1984—2014《高压交流断路器》、DL/T 402-2016《高压交流断路器》、DL/T 403—2000《12kV～40.5kV高压真空断路器订货技术条件》及DL/T 721—2013《配电自动化系统远方终端》等技术标准。

1. Introduction

ZW32-12（G）□/T Series Outdoor High-voltage Interchange Intelligent Vacuum Circuit Breaker (hereinafter refer to as Intelligent Breaker) is the outdoor high-voltage distribution switch device of the rated voltage 12kV、three-phase currency 50Hz which is mainly used for switching on and off load current, overload current and short circuit current in power system. It is suitable for the protection and control in the power distribution system of substations and industrial and mining enterprises, and can also be used in the rural power grid and other places requiring frequent operation.

The Intelligent Breaker conforms to the standard of GB1984-2014 *High-voltage Alternating-current Circuit-breakers*、DL/T402-2016 *High-voltage Alternating-current Circuit-breakers*、DL/T403-200012kV~40.5kV *Technical Specification for HV Vacuum Circuit-breaker for Rated Voltage* and DL/T 721-2013 Remote Terminal of *Distribution Automation System*.

二、型号及含义

Z W 32 – 12 (G) □ / T □ – □

- 额定短路开断电流(kA)
- 额定电流(A)
- 弹簧操动机构
- 专业功能(F: 分界、C: 重合器、H: 环网)
- 带隔离开关
- 额定电压(kV)
- 设计序号
- 户外
- 真空断路器

Model and Model Implications

Z W 32 – 12 (G)□ / T □ – □

Z Vacuum Breaker

W Outdoor

32 Design Order

12 Rated Voltage (kV)

(G) Isolating Switch Attached

□ Professional Function (F: Boundary、C: Recloser、H: Looped Network)

T VKCT

□ Rated Current（A）

□ Rated Short Circuit Breaking Current（kA）

三、主要优特点

☆ 总体结构为三相支柱式, 壳体密封性能良好;

☆ 外壳 (箱体) 采用SUS304无磁不锈钢材料, 经进口氩弧焊机精密焊接并亮化(抛光)处理, 外观精美, 永不锈蚀;

☆ 真空灭弧室通过绝缘拉杆与操动机构连接, 性能稳定可靠;

☆ 真空灭弧室与主导电回路及绝缘支撑等部件用环氧树脂经APG工艺浇注成一个有机的整体, 并采用硅橡胶包封, 具有良好的抗凝露性能和机械强度;

☆ 采用高性能的小型化弹簧操动机构, 其结构简单, 机械寿命长, 兼具电动、手动储能及分、合闸操作功能;

☆ 结构新颖, 体积小, 重量轻, 便于安装;

☆ 可实现三段式保护、零序接地保护、重合闸及远方通信等功能。

3. Character

☆ The overall structure is three-phase pillar type, and the shell sealing performance is good.

☆ SUS304 non-magnetic stainless steel is adopted in the shell (box body), which is precision welded and bright (polished) by imported argon arc welding machine. It has a beautiful appearance and will never rust.

☆ The vacuum arc extinguishing chamber is connected with the operating mechanism through insulated tie rod, and its performance is stable and reliable.

☆ The vacuum arc extinguishing chamber, the main electric circuit, the insulation support and other components are poured into an organic whole by epoxy resin through the APG process, and sealed with silicone rubber, with good condensation resistance and mechanical strength.

☆ High performance miniaturized spring operating mechanism, simple structure, long mechanical life, both electric and manual energy storage and switching operation functions;

☆ Novel structure, small size, light weight, easy to install;

☆ Three - phase protection, zero - sequence grounding protection, reclosing and remote communication can be realized.

四、主要技术参数

序号	项目		单位	技术参数
1	额定频率		Hz	50
2	额定电压		kV	12
3	额定电流		A	630/1250
4	额定短时工频耐受电压	相间、对地（湿试）	kV/min	42/1
		相间、对地（干试）		48/1
		断口（干试）		34/1
		二次回路对地		2/1
5	额定雷电冲击耐受电压	相间、对地	kV	75
		断口		85
6	额定短路开断电流		kA	20/25
7	额定短路关合电流 (峰值)			50/63
8	额定短时耐受电流及持续时间		kA/s	(20/25)/4
9	额定峰值耐受电流		kA	50/63
10	额定短路开断电流开断次数		次	30
11	额定操作电压及辅助(控制)回路额定电压		V	AC/DC220、DC48、DC24
12	主回路电阻	不带隔离开关	μΩ	≤80
		带隔离开关		≤120
13	机械寿命		次	10000

注: 若海拔高于1000m, 则额定绝缘水平应进行相应修正。

4. Main Technical Parameter

Order	Item		Unit	Technical Parameter	
1	Rated Frequency		Hz	50	
2	Rated Voltage		kV	12	
3	Rated Currency		A	630	1250
4	Rated Power-frequency Short-duration Withstand Voltage	Inter-phase、Surface to surface（slaking test）	kV/min	34/1	
		Inter-phase、Surface to surface（drying test）		42/1	
		Fracture（drying test）		48/1	
		Secondary Circuit surface to surface		2/1	
5	Rated Lightening Impulse withstand Voltage	Inter-phase、Surface to surface	kV	75	
		Fracture		85	
6	Rated Short-circuit Breaking Current（Effective Value）		kA	20	25
7	Rated Short-circuit Close Current (Peak Value)			50	63
8	Rated short-time withstand current and duration		kA/s	20/4	25/4
9	Rated Peak withstand Current		kA	50	63
10	Breaking Times of Rated Short-circuit Breaking Current		Times	30（E2 Level）	
11	Rated Operating Voltage and Rated Voltage of Auxiliary (control) Circuit		V	AC/DC220、DC48、DC24	
12	Main Circuit Resistance	Isolating Switch Attached	μΩ	≤80	
		Without Isolating Switch		≤120	
13	Mechanical Endurance		Times	10000(M2 Level)	
Note: If the altitude more than 1000m， the rated insulation level shall be modified accordingly					

五、使用环境条件

☆ 海拔: 不超过1000m, 如海拔高于1000m，则额定绝缘水平应进行相应修正;

☆ 环境温度: 上限+45℃, 下限–40℃，最大日温差25K;

☆ 湿度: 日相对湿度平均值≤95%, 月相对湿度平均值≤90%;

☆ 太阳辐射强度: ≥0.1W/cm^2;

☆ 风速: 34m/s;

☆ 风压: 700Pa;

☆ 污秽等级: e级;

☆ 覆冰厚度: ≤10mm;

☆ 耐受地震能力: 水平加速度0.3g, 垂直加速度0.2g。

5. Environmental Condition

Altitude: No more than 1000m. If more than 1000m，the rated insulation level shall be modified accordingly；

Temperature：Upper Limit＋45℃，Lower Limit-40℃，Maximum Daily Range 25K;

Humidity: Daily Average AH≤95%，Monthly Average AH≤90%；

Solar Radiation Intensity;：≥0.1W/cm^2

Wind Speed: 34m/s

Wind Pressure: 700Pa

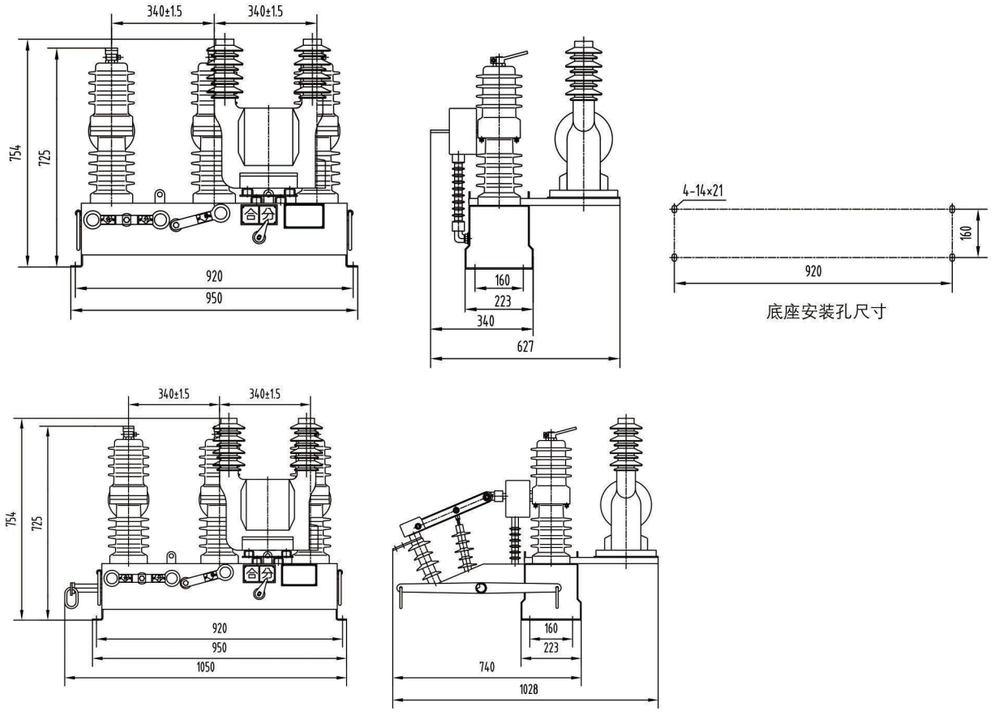
Pollution Level: Level E

Icing Thickness: ≤100mm;

Earthquake Tolerance: Horizontal Acceleration 0.3g, Normal Acceleration 0.2g

六、外形及安装尺寸

6. Appearance and Installation Method



七、订货须知

☆ 请注明产品名称、型号;

☆ 请注明额定电压、额定电流及额定短路开断电流;

☆ 请注明所配电流互感器(CT)和电源PT的数量、变比、准确级次及额定容量, 是否带独立零序CT;

☆ 请注明操动机构及辅助(控制)回路的额定电压;

☆ 请注明所配馈线终端的功能, 如是否配通信模块、带后备电源、带预付费功能等;

☆ 请注明订货数量及交货时间。

7. Ordering Instructions

☆ Please indicate the product name and model；

☆ Please indicate rated voltage, rated current and rated cut-off current;

☆ Please indicate the quantity, variation, accuracy level and rated capacity of current transformer (CT) and power PT, and whether independent zero-sequence CT is required;

☆ Please indicate the rated voltage of operating mechanism and auxiliary (control) circuit;

☆ Please indicate the function of the feeder terminal, such as whether it is equipped with communication module, backup power supply and prepayment function;

☆ Please indicate the order quantity and delivery time.

ZW32-12(G)□/M系列户外高压交流永磁智能真空断路器

ZW32-12(G)□/M Series Outdoor High-voltage Interchange Permanent Magnetism Intelligent Vacuum Circuit Breaker





一、概述

ZW32–12(G)□/M系列户外高压交流永磁智能真空断路器(以下简称“永磁智能断路器”), 为额定电压12kV、三相交流50Hz的户外高压配电开关设备, 主要用于开断、关合电力系统中的负荷电流、过载电流及短路电流, 适用于变电站及工矿企业配电系统中作保护和控制之用, 亦可用于农村电网等需要频繁操作的场所。

永磁智能断路器符合GB 1984—2014《高压交流断路器》、DL/T 402–2016《高压交流断路器》、DL/T 403—2000 《12kV～40.5kV高压真空断路器订货技术条件》及DL/T 721—2013《配电自动化系统远方终端》等技术标准。

1. Introduction

ZW32-12(G)□/M Series Outdoor High-voltage Interchange Permanent Magnetism Intelligent Vacuum Circuit Breaker (hereinafter refer to as the Permanent Magnetism Intelligent Breaker) is the outdoor high-voltage distribution switch device of the rated voltage 12kV、three-phase currency 50Hz which is mainly used for switching on and off load current, overload current and short circuit current in power system. It is suitable for the protection and control in the power distribution system of substations and industrial and mining enterprises, and can also be used in the rural power grid and other places requiring frequent operation.

The Permanent Magnetism Intelligent Breaker conforms to the standard of GB1984-2014 *High-voltage Alternating-current Circuit-breakers*、DL/T402-2016 *High-voltage Alternating-current Circuit-breakers*、DL/T403-200012kV~40.5kV *Technical Specification for HV Vacuum Circuit-breaker for Rated Voltage* and DL/T 721-2013 Remote Terminal of *Distribution Automation System*.

二、型号及含义

Z W 32 – 12 (G) □ / M □– □

- 额定短路开断电流(kA)
- 额定电流(A)
- 永磁操动机构
- 专业功能（F：分界、C：重合器、H：环网）
- 带隔离开关
- 额定电压（kV）
- 设计序号
- 户外
- 真空断路器

2. Model and Model Implications

Z W 32 – 12 (G)□ / T □ – □

Z Vacuum Breaker

W Outdoor

32 Design Order

12 Rated Voltage (kV)

(G) Isolating Switch Attached

□ Professional Function (F: Boundary、C: Recloser、H: Looped Network)

M Permanent Magnetism Structure

□ Rated Current（A）

□ Rated Short Circuit Breaking Current（kA）

三、主要优特点

☆ 具有极高的运行可靠性;
☆ 在整个寿命期间完全免维护;
☆ 外壳(箱体)采用SUS304无磁不锈钢材料, 经进口氩弧焊机精密焊接并亮化 (抛光) 处理, 外观精美, 永不锈蚀;
☆ 具有高机械寿命(20000次), 开断电流大, 可达25kA;
☆ 整机体积小, 重量轻, 便于安装;
☆ 可实现三段式保护、零序接地保护、重合闸及远方通信等功能。

3. Character

☆ High operational reliability;

☆ Completely maintenance-free throughout its life;

☆ The shell (body) adopts S s304 non-magnetic stainless steel material, which is precision welded and bright (polished) by imported argon arc welding machine. It has a beautiful appearance and will never rust;

☆ High mechanical life (20000 times). Large switching current, up to 25kA;

☆ Small size and light weight, easy to install;

☆ Three - phase protection, zero - sequence grounding protection, reclosing and remote communication can be realized.

四、使用环境条件

☆ 海拔: 不超过1000m, 如海拔高于1000m, 则额定绝缘水平应进行相应修正;
☆ 环境温度: 上限+45℃, 下限–40℃, 最大日温差25K;
☆ 湿度: 日相对湿度平均值≤95%, 月相对湿度平均值≤90%;
☆ 太阳辐射强度: ≥0.1W/cm^2;
☆ 风速: 34m/s;
☆ 风压: 700Pa;
☆ 污秽等级: e级;
☆ 覆冰厚度: ≤10mm;
☆ 耐受地震能力: 水平加速度0.3g, 垂直加速度0.2g。

4. Environmental Condition

Altitude: No more than 1000m. If more than 1000m，the rated insulation level shall be modified accordingly;

Temperature：Upper Limit＋45℃，Lower Limit-40℃，Maximum Daily Range 25K;

Humidity: Daily Average AH≤95%，Monthly Average AH≤90%;

Solar Radiation Intensity;：≥0.1W/cm^2

Wind Speed: 34m/s

Wind Pressure: 700Pa

Pollution Level: Level E

Icing Thickness: ≤100mm;

Earthquake Tolerance: Horizontal Acceleration 0.3g, Normal Acceleration 0.2g

五、主要技术参数

序号	项目		单位	技术参数
1	额定频率		Hz	50
2	额定电压		kV	12
3	额定电流		A	630/1250
4	额定短时工频耐受电压	相间、对地（湿试）	kV/min	42/1
		相间、对地（干试）		48/1
		断口（干试）		34/1
		二次回路对地		2/1
5	额定雷电冲击耐受电压	相间、对地	kV	75
		断口		85
6	额定短路开断电流		kA	20/25
7	额定短路关合电流（峰值）			50/63
8	额定短时耐受电流及持续时间		kA/s	(20/25)/4
9	额定峰值耐受电流		kA	50/63
10	额定短路开断电流开断次数		次	30
11	额定操作电压及辅助(控制)回路额定电压		V	AC/DC220、DC48、DC24
12	主回路电阻	不带隔离开关	μΩ	≤80
		带隔离开关		≤120
13	机械寿命		次	20000

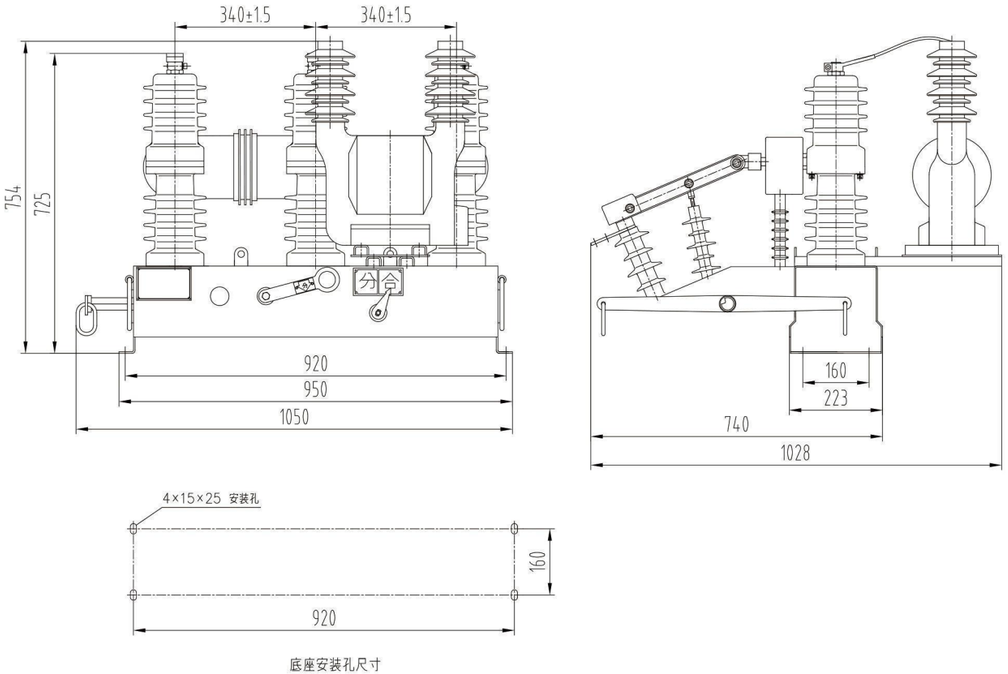
注: 若海拔高于1000m, 则额定绝缘水平应进行相应修正。

5. Main Technical Parameter

Order	Item		Unit	Technical Parameter	
1	Rated Frequency		Hz	50	
2	Rated Voltage		kV	12	
3	Rated Currency		A	630	1250
4	Rated Power-frequency Short-duration Withstand Voltage	Inter-phase、Surface to surface（slaking test）	kV/min	34/1	
		Inter-phase、Surface to surface（drying test）		42/1	
		Fracture（drying test）		48/1	
		Secondary Circuit surface to surface		2/1	
5	Rated Lightening Impulse withstand Voltage	Inter-phase、Surface to surface	kV	75	
		Fracture		85	
6	Rated Short-circuit Breaking Current（Effective Value）		kA	20	25
7	Rated Short-circuit Close Current (Peak Value)			50	63
8	Rated short-time withstand current and duration		kA/s	20/4	25/4
9	Rated Peak withstand Current		kA	50	63
10	Breaking Times of Rated Short-circuit Breaking Current		Times	30（E2 Level）	
11	Rated Operating Voltage and Rated Voltage of Auxiliary (control) Circuit		V	AC/DC220、DC48、DC24	
12	Main Circuit Resistance	Isolating Switch Attached	μΩ	≤80	
		Without Isolating Switch		≤120	
13	Mechanical Endurance		Times	10000(M2 Level)	
Note: If the altitude more than 1000m， the rated insulation level shall be modified accordingly					

六、外形及安装尺寸

6. Appearance and Installation Method



底座安装孔尺寸

七、订货须知

☆ 请注明产品名称、型号;

☆ 请注明额定电压、额定电流及额定短路开断电流;

☆ 请注明所配电流互感器(CT)和电源PT的数量、变比、准确级次及额定容量, 是否带独立零序CT;

☆ 请注明永磁操动机构及辅助(控制)回路的额定电压;

☆ 请注明所配馈线终端的功能, 如是否配通信模块、带后备电源、带预付费功能等;

☆ 请注明订货数量及交货时间。

7. Ordering Instructions

☆ Please indicate the product name and model;

☆ Please indicate rated voltage, rated current and rated cut-off current;

☆ Please indicate the quantity, variation, accuracy level and rated capacity of current transformer (CT) and power PT, and whether independent zero-sequence CT is required;

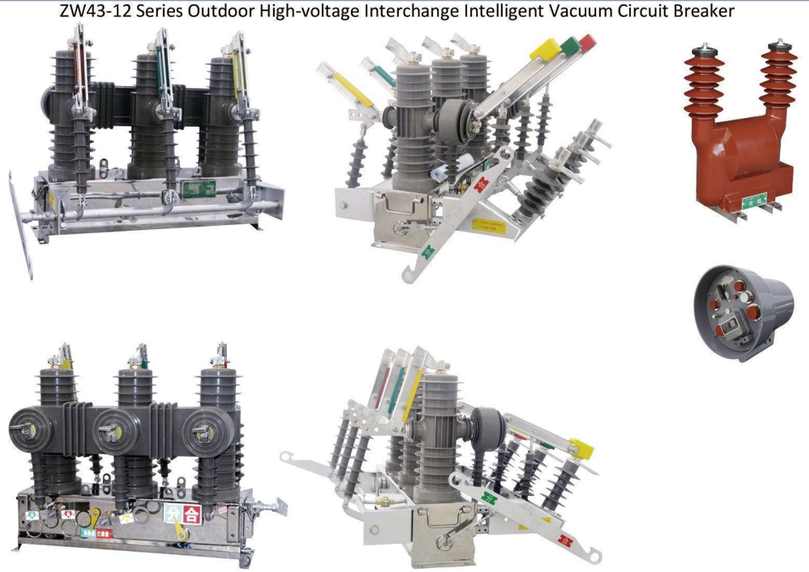
☆ Please indicate the rated voltage of operating mechanism and auxiliary (control) circuit;

☆ Please indicate the function of the feeder terminal, such as whether it is equipped with communication module, backup power supply and prepayment function;

☆ Please indicate the order quantity and delivery time.

ZW43-12系列户外高压交流智能真空断路器

ZW43-12 Series Outdoor High-voltage Interchange Intelligent Vacuum Circuit Breaker



一、概述

ZW43-12系列户外高压交流智能真空断路器(以下简称“智能断路器”)，为额定电压12kV、三相交流50Hz的户外配电开关设备，主要由ZW43-12户外高压交流真空断路器本体、DK系列配电自动化馈线终端、外置电压互感器和控制电缆等部分组成，可根据用户需要加装避雷器、单侧隔离开关或双侧隔离开关。

ZW43-12C型户外高压交流真空重合器具有过载及短路保护、速断保护、定时限延时保护及自动重合功能，有效保证线路良好运行。

ZW43-12F型户外高压交流分界真空断路器具有远程管理模式、保护控制功能及通讯功能，能可靠判断、检测界内于变电站、工矿企业、城市和农村电网作为控制和保护之用，特别适用于需频繁操作的场所和城市毫安级零序电流及相间故障短路电流，实现自动切除单相接地故障和相间短路故障。

智能断路器符合GB 1984—2014《高压交流断路器》、DL/T 402-2016《高压交流断路器》、DL/T 1071—2018《12kV～40.5kV高压真空断路器订货技术条件》及DL/T 721—2013《配电自动化系统远方终端》等技术标准。

1. Introduction

ZW43-12 Series Outdoor High-voltage Interchange Intelligent Vacuum Circuit Breaker(hereinafter refer to as Intelligent Breaker) is the outdoor high-voltage distribution switch device of the rated voltage 12kV、three-phase currency 50Hz. It is mainly composed of ZW43-12 outdoor high voltage ac vacuum circuit breaker body, DK series distribution automation feeder terminal, external voltage transformer and control cable. Lightning arrester, one-sided isolating switch or double-sided isolating switch can be installed according to user's requirement.

ZW43-12 Series Outdoor High-voltage Interchange Intelligent Vacuum Circuit Breaker has overload and short circuit protection, quick break protection, fixed time delay protection and automatic coincidence function, effectively ensure the good operation of the line.

Z ZW43-12 Series Outdoor High-voltage Interchange Intelligent Vacuum Circuit Breaker has remote management mode, protection and control function and communication function, can reliable judgment, detection limits in substation, industrial and mining enterprises, urban and rural power grid for the use of control and protection, especially suitable for frequent operation sites and urban milliamperes zero sequence current and interphase short circuit current. And realize automatic removal of single-phase grounding fault and short-circuit fault.

The Breaker conforms to the standard of GB1984-2014 *High-voltage Alternating-current Circuit-breakers*、DL/T402-2016 *High-voltage Alternating-current Circuit-breakers*、DL/T403-200012kV~40.5kV *Technical Specification for HV Vacuum Circuit-breaker for Rated Voltage* and DL/T 721-2013 Remote Terminal of *Distribution Automation System*.

二、型号及含义

Z W 43 – 12 □ □ / □ □ – □

- 额定短路开断电流 (kA)
- 额定电流 (A)
- 操作机构类型 (T: 弹簧, M: 永磁)
- 专业功能 (C: 重合器、F: 分界、H: 环网)
- 带隔离开关 (G: 带单侧隔离开关、 Ⅱ G: 带双侧隔离开关)
- 额定电压 (kV)
- 设计序号
- 户外
- 真空断路器

Z W 43 – 12 □ □ / □ □ – □

Z Vacuum Breaker

W Outdoor

43 Design Order

12 Rated Voltage (kV)

□ Isolating Switch Attached （G: One-sided Isolating Switch、 Ⅱ G: Double-sided Isolating Switch）

□ Professional Function (F: Boundary、C: Recloser、H: Looped Network)

M Permanent Magnetism Structure

□ Rated Current（A）

□ Rated Short Circuit Breaking Current（kA）

三、使用环境条件

☆ 海拔: 不超过1000m, 如海拔高于1000m, 则额定绝缘水平应进行相应修正;
☆ 环境温度: 上限+45℃, 下限–40℃, 最大日温差25K;
☆ 湿度: 日相对湿度平均值≤95%, 月相对湿度平均值≤90%;
☆ 太阳辐射强度: ≥0.1W/cm^2;
☆ 风速: 34m/s;
☆ 风压: 700Pa;
☆ 污秽等级: e级;
☆ 覆冰厚度: ≤10mm;
☆ 耐受地震能力: 水平加速度0.3g, 垂直加速度0.2g。

3. Environmental Condition

Altitude: No more than 1000m. If more than 1000m，the rated insulation level shall be modified accordingly；

Temperature：Upper Limit＋45℃，Lower Limit-40℃，Maximum Daily Range 25K;

Humidity: Daily Average AH≤95%，Monthly Average AH≤90%；

Solar Radiation Intensity;：≥0.1W/cm²

Wind Speed: 34m/s

Wind Pressure: 700Pa

Pollution Level: Level E

Icing Thickness: ≤100mm;

Earthquake Tolerance: Horizontal Acceleration 0.3g, Normal Acceleration 0.2g

四、主要优特点

☆ 总体结构为三相支柱式结构, 采用APG固封极柱技术, 密封性能好, 具有良好的防潮和防凝露性能;
☆ 可带双侧隔离开关, 使电路和电气设备检修更加安全;
☆ 采用小型化设计, 体积小、重量轻、免维护, 使用寿命长;
☆ 操动机构设计新颖, 结构简单, 动作可靠;
☆ 可实现三段式保护、零序接地保护、重合闸及远方通信等功能。

4. Character

☆ The overall structure of the three-phase pillar structure, the use of APG solid sealing pole column technology, good sealing performance, with good moisture and condensation prevention performance;

☆ It can be equipped with double side isolating switch to make the overhaul of circuit and electrical equipment safer;

☆ Adopt miniaturized design, small size, light weight, maintenance-free, long service life;

☆ The design of the operating mechanism is novel, simple and reliable;

☆ Three - phase protection, zero - sequence grounding protection, reclosing and remote communication can be realized.

五、主要技术参数

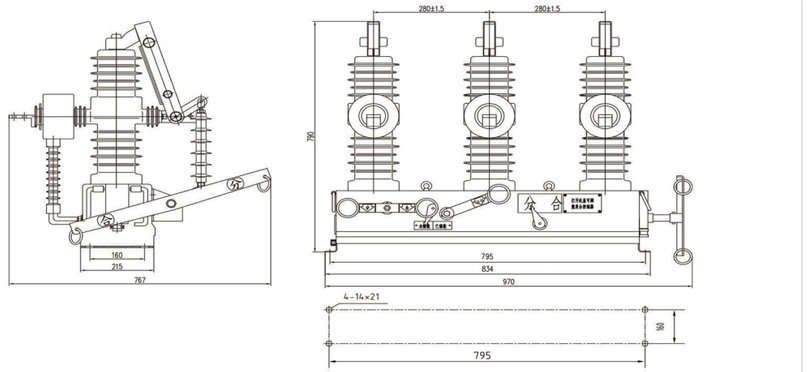
序号	项目		单位	技术参数
1	额定频率		Hz	50
2	额定电压		kV	12
3	额定电流		A	630/1250
4	额定短时工频耐受电压	相间、对地（湿试）	kV/min	42/1
		相间、对地（干试）		48/1
		断口（干试）		34/1
		二次回路对地		2/1
5	额定雷电冲击耐受电压	相间、对地	kV	75
		断口		85
6	额定短路开断电流		kA	20/25
7	额定短路关合电流 (峰值)			50/63
8	额定短时耐受电流及持续时间		kA/s	(20/25)/4
9	额定峰值耐受电流		kA	50/63
10	额定短路开断电流开断次数		次	30
11	额定操作电压及辅助(控制)回路额定电压		V	AC/DC220、DC48、DC24
12	主回路电阻	不带隔离开关	μΩ	≤80
		带单侧隔离开关		≤120
		带双侧隔离开关		≤160
13	机械寿命		次	10000

注: 若海拔高于1000m, 则额定绝缘水平应进行相应修正。

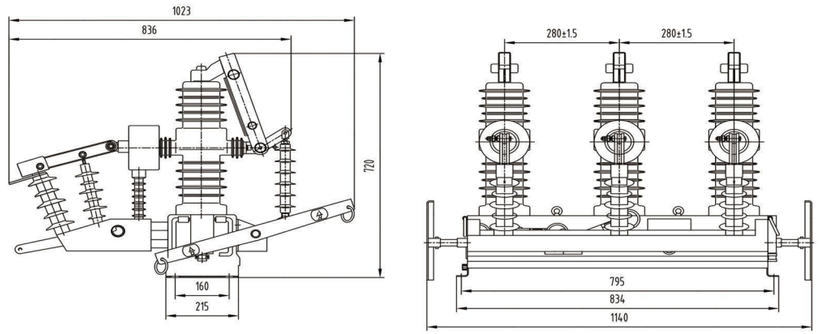
5. Main Technical Parameter

Order	Item		Unit	Technical Parameter	
1	Rated Frequency		Hz	50	
2	Rated Voltage		kV	12	
3	Rated Currency		A	630	1250
4	Rated Power-frequency Short-duration Withstand Voltage	Inter-phase、Surface to surface（slaking test）	kV/min	34/1	
		Inter-phase、Surface to surface（drying test）		42/1	
		Fracture（drying test）		48/1	
		Secondary Circuit surface to surface		2/1	
5	Rated Lightening Impulse withstand Voltage	Inter-phase、Surface to surface	kV	75	
		Fracture		85	
6	Rated Short-circuit Breaking Current（Effective Value）		kA	20	25
7	Rated Short-circuit Close Current (Peak Value)			50	63
8	Rated short-time withstand current and duration		kA/s	20/4	25/4
9	Rated Peak withstand Current		kA	50	63
10	Breaking Times of Rated Short-circuit Breaking Current		Times	30（E2 Level）	
11	Rated Operating Voltage and Rated Voltage of Auxiliary (control) Circuit		V	AC/DC220、DC48、DC24	
12	Main Circuit Resistance	Isolating Switch Attached	μΩ	≤80	
		Without Isolating Switch		≤120	
13	Mechanical Endurance		Times	10000(M2 Level)	
Note: If the altitude more than 1000m，the rated insulation level shall be modified accordingly					

六、外形及安装尺寸



底座安装孔尺寸



七、订货须知

☆ 请注明产品名称、型号;
☆ 请注明额定电压、额定电流及额定短路开断电流;
☆ 请注明所配电流互感器(CT)和电源PT的数量、变比、准确级次及额定容量, 是否带独立零序CT;
☆ 请注明操作机构及辅助(控制)回路的额定电压;
☆ 请注明所馈线终端的功能, 如是否配通信模块、带后备电源、带预付费功能等;
☆ 请注明订货数量及交货时间。

7. Ordering Instructions

☆ Please indicate the product name and model;

☆ Please indicate rated voltage, rated current and rated cut-off current;

☆ Please indicate the quantity, variation, accuracy level and rated capacity of current transformer (CT) and power PT, and whether independent zero-sequence CT is required;

☆ Please indicate the rated voltage of operating mechanism and auxiliary (control) circuit;

☆ Please indicate the function of the feeder terminal, such as whether it is equipped with communication module, backup power supply and prepayment function;

☆ Please indicate the order quantity and delivery time.

ZW8-12(G)□ 系列户外高压交流智能真空断路器

ZW8-12(G)口/M Series Outdoor High-voltage Interchange Intelligent Vacuum Circuit Breaker

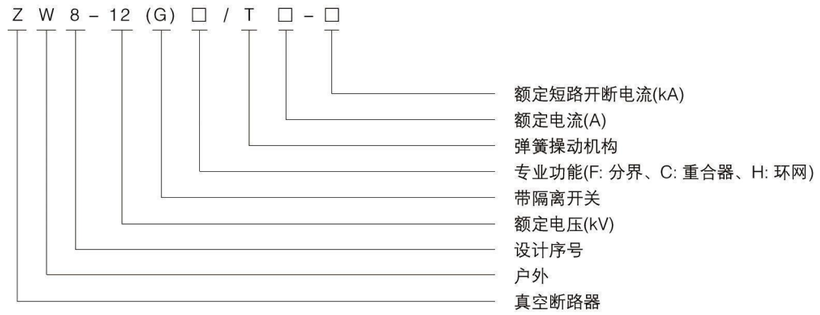


一、概述

ZW8-12(G)□系列户外高压交流智能真空断路器(以下简称“智能断路器”), 适用于三相交流50Hz、电压12kV的三相电力系统, 作为分断、关合负荷电流之用, 具有过载及短路护、速断保护、定时限延时保护、自动重合功能, 还可以根据用户需要加装避雷器或隔离开关等。

智能断路器符合GB 1984—2014《高压交流断路器》、DL/T 402-2016《高压交流断路器》、DL/T 403—2000 《12kV～40.5kV高压真空断路器订货技术条件》及DL/T 721—2013《配电自动化系统远方终端》 等标准的要求。

二、型号及含义



2. Model and Model Implications

Z W 8 – 12 (G)口 / T 口 – 口

Z Vacuum Breaker

W Outdoor

8 Design Order

12 Rated Voltage (kV)

(G) Isolating Switch Attached

口 Professional Function (F: Boundary、C: Recloser、H: Looped Network)

T VKCT

口 Rated Current（A）

口 Rated Short Circuit Breaking Current（kA）

三、使用环境条件

☆ 海拔: 不超过1000m, 如海拔高于1000m, 则额定绝缘水平应进行相应修正;

☆ 环境温度: 上限+45℃, 下限–40℃, 最大日温差25K;

☆ 湿度: 日相对湿度平均值≤95%, 月相对湿度平均值≤90%;

☆ 太阳辐射强度: ≥0.1W/cm^2;

☆ 风速: 34m/s;

☆ 风压: 700Pa;

☆ 污秽等级: e级;

☆ 覆冰厚度: ≥10mm;

☆ 耐受地震能力: 水平加速度0.3g, 垂直加速度0.2g。

3. Environmental Condition

Altitude: No more than 1000m. If more than 1000m，the rated insulation level shall be modified accordingly；

Temperature：Upper Limit＋45℃，Lower Limit-40℃，Maximum Daily Range 25K;

Humidity: Daily Average AH≤95%，Monthly Average AH≤90%；

Solar Radiation Intensity;：≥0.1W/cm^2

Wind Speed: 34m/s

Wind Pressure: 700Pa

Pollution Level: Level E

Icing Thickness: ≤100mm;

Earthquake Tolerance: Horizontal Acceleration 0.3g, Normal Acceleration 0.2g

四、主要优特点

☆ 采用陶瓷真空灭弧室, 灭弧能力及短路开断能力强;

☆ 具有防爆、防凝露、防污秽及不受环境影响等优点;

☆ 采用空气－硅橡胶、工程塑料复合绝缘, 避免了油绝缘中因油质劣化引起绝缘事故的可能性;

☆ 本体可加装隔离开关组成具有明显断口的“组合电器”, 在隔离开关上可供用户选择使用硅橡胶绝缘护套, 该护套具有防雨雪风沙和抗污秽腐蚀能力强等优点, 可有效提升隔离开关的抗冰冻和抗氧化能力;

☆ 可实现三段式保护、零序接地保护、重合闸及远方通信等功能。

4. Character

☆ Using ceramic vacuum arc extinguishing chamber, arc extinguishing ability and short circuit breaking ability;

☆ It has the advantages of explosion-proof, anti-condensation, anti-pollution and not affected by the environment;

☆ The air-silicone rubber and engineering plastics composite insulation is adopted to avoid the possibility of insulation accidents caused by the deterioration of oil quality in the oil insulation.;

☆ The body can be equipped with a isolating switch to form a "combined electric appliance" with obvious fracture, and the rubber insulating sheath can be selected for use on the isolating switch;

☆ The cover has the advantages of rain, snow, wind, sand and anti-pollution corrosion, and can effectively improve the anti-freezing and anti-melting ability of the isolation switch;

☆ Three - phase protection, zero - sequence grounding protection, reclosing and remote communication can be realized.