



Appendix 1
TECHNICAL CHARACTERISTIC AND COMMITMENT
LIGHTNING ARRESTER 35KV USED FOR INSULATED NEUTRAL LINE

No.	Description	Unit	EVN SPEC	YIKUN SPEC
1.	Manufacturer			Wenzhou Yikun Electric Co., Ltd.
	Product code			YH10W- 40.5/130
	Country of Manufacture			P.R.CHINA
2.	Type		ZnO	ZnO
3.	Design Type		Zinc oxide, non-gap type	Zinc oxide, non- gap type
4.	Standard		IEC 99-4	IEC 99-4
5.	Rated Voltage	kV	Supplier's Recommendation	40.5KV
6.	Rated Frequency	Hz	50	50
7.	Neutral Grounding Condition		Isolated	Isolated
8.	Maximum Continuous Operating Voltage (MCOV)	kV	≥ 34	34
9.	Rated Discharge Current (8/20μs)	kA	10 kA	10 kA
10.	Short-circuit Current	kA	≥ 20	≥ 20
11.	Discharge class according to IEC		Class 1	Class 1
12.	Energy Resistant	kJ/kV Uc	4	4
13.	Temporary Overvoltages in 1-phase short circuit mode (TOV) - Check the TOV curve of arrester	s	≥ 7200	≥ 7200
14.	Maximum residual voltage for rated discharge current, wave 8/20μs	kV	≤ 121	120
15.	Ability to withstand pulse current wave 4/10μs	kA	≥ 100	≥ 100
16.	Housing of lightning arrester		Contractor specify	Polymer
	- Material			
	- Ability to withstand impulse voltage	KV	≥ 170	≥ 170
	- Ability to withstand industrial frequency voltage	kV	≥ 70	≥ 70
	- Minimum creepage distance	mm/kV	≥ 20	≥ 25
17.	Accessories for installation (connection fittings, grounding,...)		Yes	Yes
18.	Technical documents, fabrication drawings		Yes	Yes
19.	Experimental record : Type Test and Rountine Test		Yes	Yes

Appendix 2A
TECHNICAL CHARACTERISTIC AND COMMITMENT
**LIGHTNING ARRESTER 22KV USED FOR STAR CONNECTION LINE, 3 PHASE
3 WIRE, EARTHED NEUTRAL DIRECTLY IN SOURCE**

No.	Description	Unit	EVN SPEC	YIKUN SPEC
1.	Manufacturer			Wenzhou Yikun Electric Co., Ltd.
	Product code			YH10W-24/75
	Country of Manufacture			P.R.CHINA
2.	Type		ZnO	ZnO
3.	Design Type		Zinc oxide, non-gap type	Zinc oxide, non-gap type
4.	Standard		IEC 99-4	IEC 99-4
5.	Rated Voltage	kV	Supplier's Recommendation	24
6.	Rated Frequency	Hz	50	50
7.	Maximum Continuous Operating Voltage (MCOV)	kV	≥ 19.2	19.5
8.	Rated Discharge Current (8/20μs)	kA	10 kA	10 kA
9.	Short-circuit Current	kA	≥ 20	≥ 20
10.	Discharge class according to IEC		Class 1	Class 1
11.	Energy Resistant	kJ/kV Uc	4	4
12.	Temporary Overvoltages in 1-phase short circuit mode (TOV) - Check the TOV curve of arrester	s	≥ 10	≥ 10
13.	Maximum residual voltage for rated discharge current, wave 8/20μs	kV	≤ 89	75
14.	Ability to withstand pulse current wave 4/10μs	kA	≥ 100	≥ 100
15.	Housing of lightning arrester		Contractor specify	Polymer
	- Material			
	- Ability to withstand impulse voltage	KV	≥ 125	≥ 125
	- Ability to withstand industrial frequency voltage	kV	≥ 50	≥ 50
	- Minimum creepage distance	mm/kV	≥ 20	≥ 25
16.	Accessories for installation (connection fittings, grounding,...)		Yes	Yes
17.	Technical documents, fabrication drawings		Yes	Yes
18.	Experimental record : Type Test and Routine Test		Yes	Yes

Appendix 2B
TECHNICAL CHARACTERISTIC AND COMMITMENT
LIGHTNING ARRESTER **22KV USED FOR STAR CONNECTION, 3 PHASE 3**
WIRE, INSULATED NEUTRAL LINE

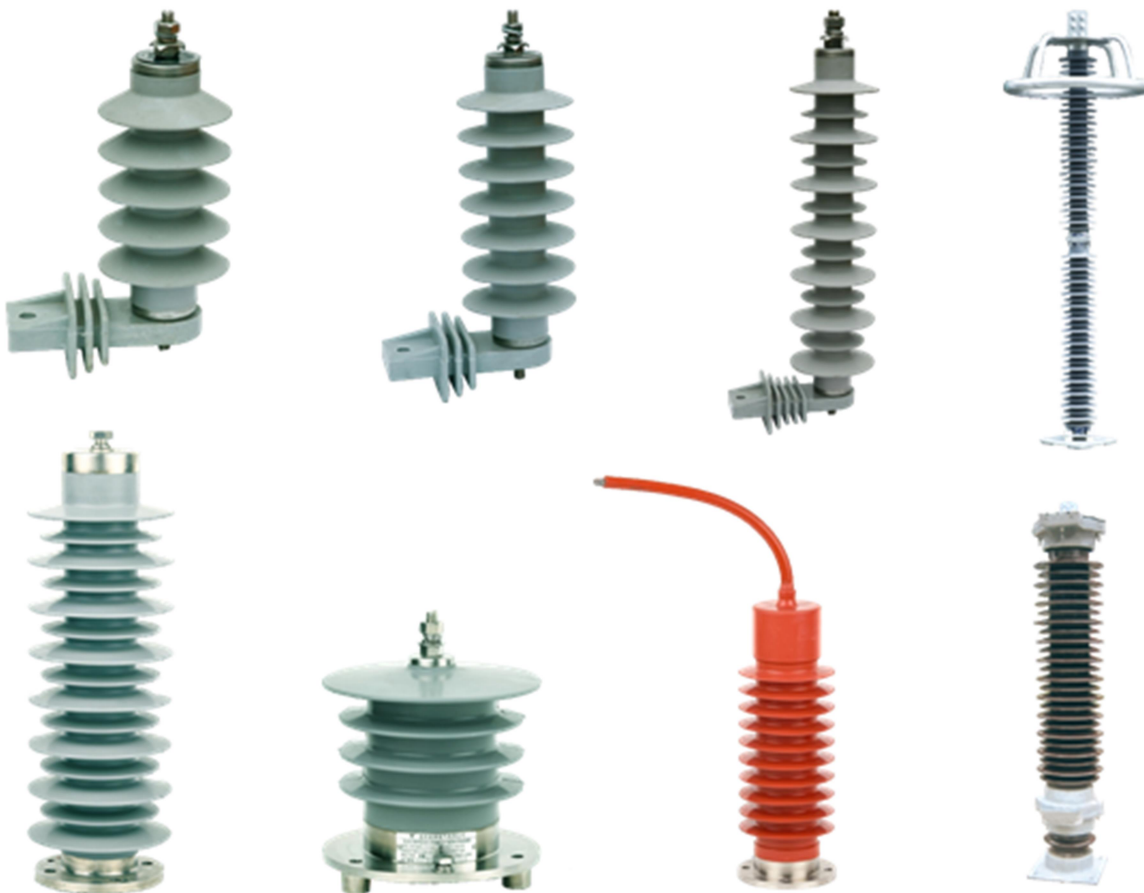
No.	Description	Unit	EVN SPEC	YIKUN SPEC
1.	Manufacturer			Wenzhou Yikun Electric Co., Ltd.
	Product code			YH10W-24/75
	Country of Manufacture			P.R.CHINA
2.	Type		ZnO	ZnO
3.	Design Type		Zinc oxide, non-gap type	Zinc oxide, non-gap type
4.	Standard		IEC 99-4	IEC 99-4
5.	Rated Voltage	kV	Supplier's Recommendation	24
6.	Rated Frequency	Hz	50	50
7.	Maximum Continuous Operating Voltage (MCOV)	kV	≥ 19.2	19.5
8.	Rated Discharge Current (8/20μs)	kA	10 kA	10 kA
9.	Short-circuit Current	kA	≥ 20	≥ 20
10.	Discharge class according to IEC		Class 1	Class 1
11.	Energy Resistant	kJ/kV Uc	4	4
12.	Temporary Overvoltages in 1-phase short circuit mode (TOV) - Check the TOV curve of arrester	s	≥ 7200	≥ 7200
13.	Maximum residual voltage for rated discharge current, wave 8/20μs	kV	≤ 89	75
14.	Ability to withstand pulse current wave 4/10μs	kA	≥ 100	≥ 100
15.	Housing of lightning arrester		Contractor specify	Polymer
	- Material			
	- Ability to withstand impulse voltage	KV	≥ 125	≥ 125
	- Ability to withstand industrial frequency voltage	kV	≥ 50	≥ 50
	- Minimum creepage distance	mm/kV	≥ 20	≥ 25
16.	Accessories for installation (connection fittings, grounding,...)		Yes	Yes
17.	Technical documents, fabrication drawings		Yes	Yes
18.	Experimental record : Type Test and Routine Test		Yes	Yes

Appendix 3
TECHNICAL CHARACTERISTIC AND COMMITMENT
LIGHTNING ARRESTER 10KV USED FOR INSULATED NEUTRAL LINE

No.	Description	Unit	EVN SPEC	YIKUN SPEC
1.	Manufacturer			Wenzhou Yikun Electric Co., Ltd.
	Product code			YH10W-12/38
	Country of Manufacture			P.R.CHINA
2.	Type		ZnO	ZnO
3.	Design Type		Zinc oxide, non-gap type	Zinc oxide, non-gap type
4.	Standard		IEC 99-4	IEC 99-4
5.	Rated Voltage	kV	Supplier's Recommendation	12
6.	Rated Frequency	Hz	50	50
7.	Neutral Grounding Conditions		Isolated	Isolated
8.	Maximum Continuous Operating Voltage (MCOV)	kV	≥ 9.6	10.2
9.	Rated Discharge Current (8/20μs)	kA	10	10
10.	Short-circuit Current	kA	≥ 20	≥ 20
11.	Discharge class according to IEC		Class 1	Class 1
12.	Energy Resistant	kJ/kV Uc	4	4
13.	Temporary Overvoltages in 1-phase short circuit mode (TOV) - Check the TOV curve of arrester	s	≥ 7200	≥ 7200
14.	Maximum residual voltage for rated discharge current, wave 8/20μs	kV	≤ 53	38
15.	Ability to withstand pulse current wave 4/10μs	kA	≥ 100	≥ 100
16.	Housing of lightning arrester		Contractor specify	Polymer
	- Material			
	- Ability to withstand impulse voltage	KV	≥ 75	≥ 75
	- Ability to withstand industrial frequency voltage	kV	≥ 28	≥ 28
	- Minimum creepage distance	mm/kV	≥ 20	≥ 25
17.	Accessories for installation (connection fittings, grounding,...)		Yes	Yes
18.	Technical documents, fabrication drawings		Yes	Yes
19.	Experimental record : Type Test and Routine Test		Yes	Yes

Appendix 4
TECHNICAL CHARACTERISTIC AND COMMITMENT
LIGHTNING ARRESTER 6KV USED FOR INSULATED NEUTRAL LINE

No.	Description	Unit	EVN SPEC	YIKUN SPEC
1.	Manufacturer			Wenzhou Yikun Electric Co., Ltd.
	Product code			YH10W-9/28
	Country of Manufacture			P.R.CHINA
2.	Type		ZnO	ZnO
3.	Design Type		Zinc oxide, non-gap type	Zinc oxide, non-gap type
4.	Standard		IEC 99-4	IEC 99-4
5.	Rated Voltage	kV	Supplier's Recommendation	9
6.	Rated Frequency	Hz	50	50
7.	Neutral Grounding Conditions		Isolated	Isolated
8.	Maximum Continuous Operating Voltage (MCOV)	kV	≥ 7.2	7.65
9.	Rated Discharge Current (8/20 μ s)	kA	10	10
10.	Short-circuit Current	kA	≥ 20	≥ 20
11.	Discharge class according to IEC		Class 1	Class 1
12.	Energy Resistant with single pulse	kJ/kV Uc	4	4
13.	Temporary Overvoltages in 1-phase short circuit mode (TOV) - Check the TOV curve of arrester	s	≥ 7200	≥ 7200
14.	Maximum residual voltage for rated discharge current, wave 8/20 μ s	kV	≤ 42	28
15.	Ability to withstand pulse current wave 4/10 μ s	kA	≥ 100	≥ 100
16.	Housing of lightning arrester		Contractor specify	Polymer
	- Material			
	- Ability to withstand impulse voltage	KV	≥ 60	75
	- Ability to withstand industrial frequency voltage	kV	≥ 20	≥ 20
	- Minimum creepage distance	mm/kV	≥ 20	≥ 25
17.	Accessories for installation (connection fittings, grounding,...)		Yes	Yes
18.	Technical documents, fabrication drawings		Yes	Yes
19.	Experimental record : Type Test and Routine Test		Yes	Yes



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BANK INFORMATION

Company Bank:

Bank Swift Code: VPBKVNXX

Bank Account (VND): 97311366

At Bank: Vietnam Prosperity Joint Stock Commercial Bank (VPBANK)

Owner: Tascom Viet Nam Company Limited

Individual Bank:

Bank Account: 8989.88888

At Bank: Vietnam Prosperity Joint Stock Commercial Bank (VPBANK)

Owner: Nguyen Thanh Nam