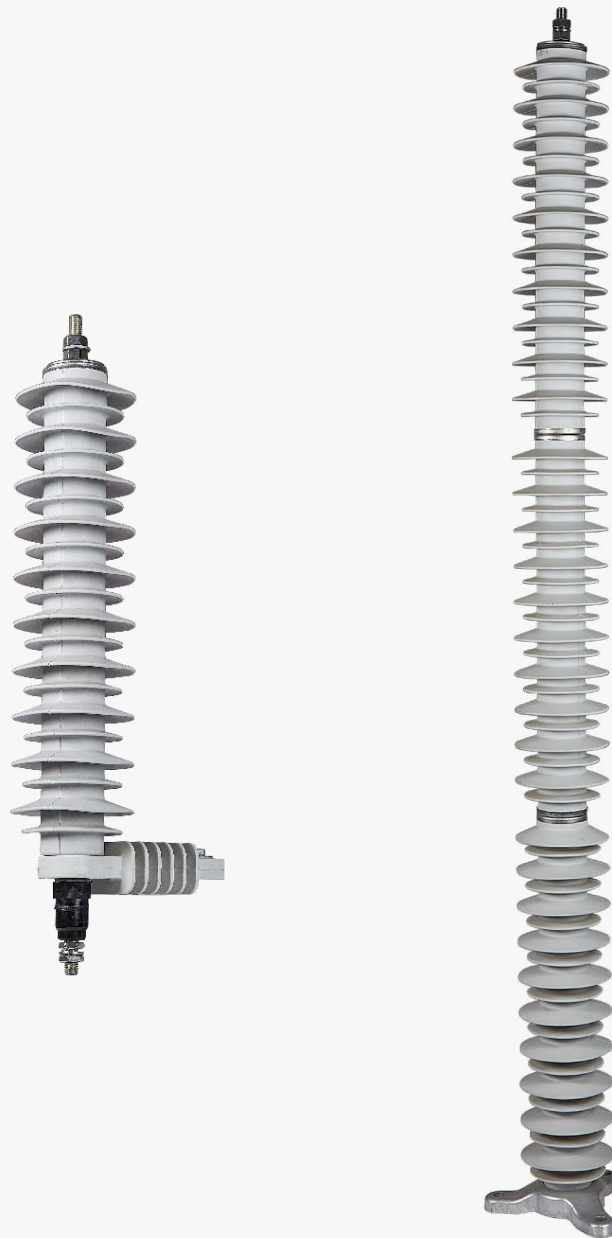




**Metal oxide distribution DH class surge
arresters INZP type
Station SL class polymeric surge arresters**

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Introduction

For years, Inael has been dedicated to manufacturing distribution and substation surge arresters, ensuring maximum protection for electrical grids. As one of the few national manufacturers that comply with the most rigorous quality standards, we have positioned ourselves as leaders in the sector. Our experience and technology allow us to offer solutions for any type of installation, both nationally and internationally.





10 KA Series heavy duty distribution class, Surge Arrester 3-48 KV

The INZP” type arrester are heavy duty distribution class surge arrester. These are gapless design incorporating highly non-linear metal oxide varistor, with a discharge rated current of 10 kA. The housing can be polimeric INZP type. The housing is polimeric.

Characteristics

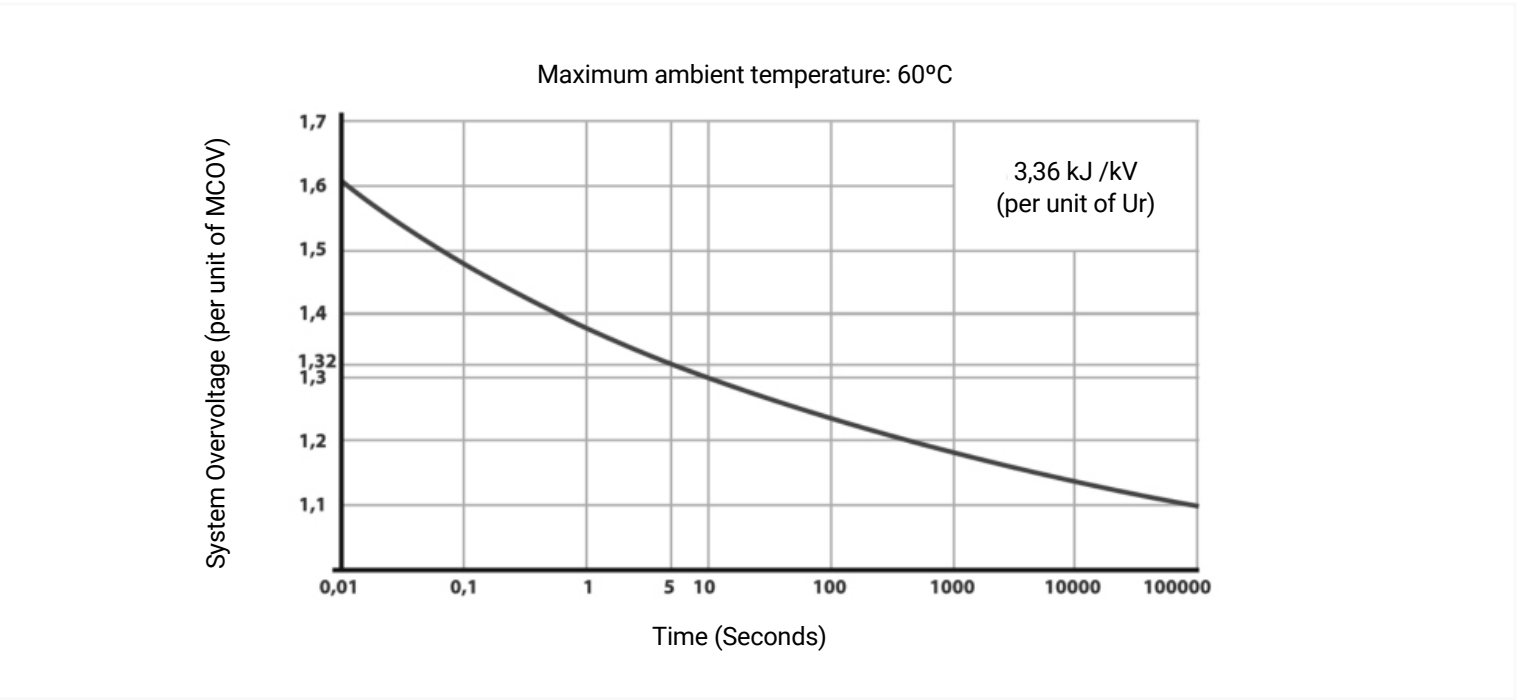
The INAEL’S arresters are tested in accordance with the latest standard ANSI/IEEE C62.11-1987 for metal oxide arresters, and also with IEC 60099-4. They consistently withstand the following minimum type test:

- High Current-Short duration: 2 current surges of 100 kA-crest magnitude.
- Low Current-Long duration: 18 shoots (or impulses) of 250 A amplitude and 2.000 μs duration.

- Duty Cycle: 20 discharges with a current surge of 10 kA magnitude and 8/20 μs wave shape followed by 2 discharges with a current surge of 100kA magnitude.

Following each of these tests, the INAEL’S arresters remain thermally stable and the discharge voltage increase at rated current is less than 5%.

Type INZP arresters temporary overvoltage capability (TOV)



Application

The INAEL’S arrester rated voltage , “Ur” designates the voltage (50/60 Hz) applied across the arrester terminales during 10 sg. in the duty cycle test. In the other hand, the INAEL’S arresters arrester Maximum Continous Operting Voltage (MCOV) “Uc”designates the maximum 50/60 Hz voltage that may be continuously applied across the arrester in service. Selection of the appropriate arrester rating is made on the basis that the maximum continuous voltage on the line does not exceed the (MCOV) “Uc” of the arrester.

The average temperature at the point of installation should not exceed 40° C, and the maximum temperature should not exceed 60° C. For aplications continuously exceeding these temperatures, please, contact your nearest INAEL’S agent.

Characteristics									
Types	Ur kV (RMS)	Uc kV (RMS)	Max. Ures at wave front – kV (crest) (1)	Maximum residual voltage (Ures) with 8/20 μs current wave					
				A	B	C	D	E	G
INZ__10	3	2,55	10,6	8,3	8,7	9,2	9,9	11,1	13,1
	6	5,1	21,2	16,6	17,4	18,4	19,8	22,2	26,2
	9	7,65	31,8	24,9	26,1	27,6	29,7	33,3	39,3
	10	8,5	35,3	27,7	29	30,7	33	37	43,7
	12	10,2	42,4	33,2	34,8	36,8	39,6	44,4	52,4
	15	12,7	53	41,5	43,5	46	49,5	55,5	65,5
	18	15,3	63,6	49,8	52,2	55,2	59,4	66,6	78,6
	21	17	74,2	58,1	60,9	64,4	69,3	77,7	91,7
	24	19,5	84,8	66,4	69,6	73,6	79,2	88,8	104,8
	27	22	95,4	74,7	78,3	82,8	89,1	99,9	117,9
	30	24,4	105,9	83,1	87	92,1	99	111	131,1
	33	27	116,4	91,4	95,7	101,3	108,9	122,1	144,2
	36	29	127	99,7	104,4	110,4	118,8	133,2	157,3
	39	31,4	137,5	107,9	113,1	119,6	128,7	144,3	170,3
	42	34	148,1	116,2	121,8	128,8	138,6	155,4	183,4
	45	36	158,9	124,5	130,5	138,2	148,5	166,5	196,5
	48	39	169,5	132,8	139,2	147,4	158,4	177,6	209,6
INZ_10/IS RISER POLE	3	2,55	9,6	7,6	7,9	8,4	9	10,1	11,9
	6	5,1	19,3	15,1	15,8	16,7	18	20,2	23,8
	9	7,65	28,9	22,7	23,8	25,1	27	30,3	35,8
	10	8,4	32,1	25,2	26,4	27,9	30	33,7	39,8
	12	10,2	38,6	30,2	31,7	33,5	36	40,4	47,7
	15	12,7	48,2	37,8	39,6	41,9	45	50,5	59,6
	18	15,3	57,9	45,3	47,5	50,2	54,1	60,6	71,5
	21	17	67,5	52,9	55,4	58,6	63,1	70,7	83,4
	27	22	86,8	60,4	63,3	67	72,1	80,8	93
	30	24,4	96,4	75,6	79,2	83,8	81,1	90,9	107,3
	33	27	105,9	83,2	87,1	92,2	99,1	111,1	131,2
	36	29	115,5	90,7	95	100,4	108,1	121,2	143,1
	39	31,4	125,2	98,4	102,9	109,1	117,1	131,3	155
	42	34	134,8	106,02	110,8	117,5	126,1	141,4	166,9
	45	36	144,4	113,8	118,7	125,9	135,1	151,5	178,8
	48	39	154,1	121,5	126,6	134,3	144,1	161,6	190,7

(1) Maximum residual voltage for a current impulse with an amplitude of 10 kA producing a voltage wave crest of 0.5 μs.

Ratings for various system voltages

System phase to phase kV		Rated voltage & continuos operating voltage			
		Earthed Neutral System		Isolated or resonant Earthed Neutral System	
Nominal	Máximum	Ur	Uc	Ur	Uc
4,2	4,6	6	5,1	6	5,1
6,0	7,2	6	5,1	9	7,65
6,9	7,2	6	5,1	9	7,65
8,3	9,2	9	7,65	12	10,2
10,0	11,0	10	8,5	12	10,2
11,0	12,1	12	10,2	15	12,7
12,0	13,2	12	10,2	15	12,7
13,2	14,5	15	12,7	18	15,3
13,8	15,2	15	12,7	18	15,3
15,0	16,5	15	12,7	18	15,3
17,5	19,3	18	15,3	21	17,0
20,0	22,0	21	17,0	24	19,5
22,0	24,2	24	19,5	27	22,0
25,0	27,5	27	22,0	30	24,4
30,0	36,3	33	27,0	36	29,0
34,5	38	36	29,0	42	34
39	42	42	34	45	36
42	47	45	36	48	39
45	52	48	39	-	-

Under normal service conditions the maximun continuous voltage applied across the arrester is:

$$V = \frac{\text{Max. Voltage}}{\sqrt{3}}$$

In the case of short circuit between one phase and earth, in a system with ungrounded or impedance neutral circuits, the maximum voltage across the arrester placed on the two phases whitout fault may reach, during the operating time of the protecting breaker, the maximum phase to phase.

In order to choose the voltage arrester correctly, it is necessary to take into account the duration of an eventual overvoltage. By inspection of the TOV characteristics curve of the metal oxide arresters, a model should be chosen which supports the prospective overvoltage during the hole duration.



Control equipment of control equipment of routine

INZP pyshical data

The “INZP” arrester offers all the advantages of a metal oxide distribution arrester in light-weight, low profile poly- meric housing designed for either indoor o outdoor overhead aplications. The polymeric housing eliminares the chipping or cracking problems on por- celain arresters that may occur during handling or shipping. Beside that, lower weight is ideal for easy installation.

Silicone housing manufactured with htv that has the property of hydrophobicity, it means that rejects water and therefore does not wet the surface and creates small water drops that fall, and cleans all the contaminated surface. Years of experiance has showed that the property of hidropobity is essential for a reliable operation in contaminated conditionswithout any preventive maintenance that includes cleaning or greasing.

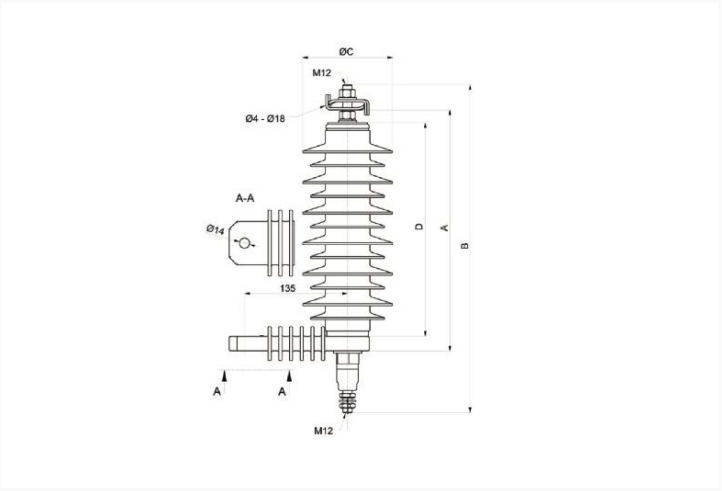
The “INZP” arresters have overciome the 5000 hours accelerated ageing test of the polymer, carried out according to the annexe C of IEC 61 109 standard.

Dimensions for arresters INZP						
Types	Ur (kV)	Creepage distance	Housing	Withstand voltage of the insulator		
				Lightning impulse 1.2/50 μs	Power frequency under rain 60s	Power frequency in dry conditions 60s
INZP 0310	3	450	L	95 kV^	38 kV	45 kV
INZP 0610	6					
INZP 0910	9					
INZP 1210	12					
INZP 1510	15	462	P	150 kV^	63 kV	65 kV
INZP 1810	18					
INZP 2110	21	603	M			65 kV
INZP 2410	24					
INZP 2710	27	795	N			90 kV
INZP 3010	30					
INZP 3310	33	980	Z			130 kV
INZP 3610	36					
INZP 3910	39	1135	X			140 kV
INZP 4210	42					
INZP 4510	45					
INZP 4810	48					

Insulating support
Lightning impulse withstand voltage 1.2/50 μs: 76 kV^
Power frequency withstand voltage under rain, 60s: 35 kV

On request, a surge arrester can be manufactured with a larger housing. In this case, the housing code must be indicated after the type designation.

Example: A surge arrester with a rated voltage (Ur) of 12 kV, manufactured with a housing having a creepage distance of 795 mm and a total height D of 280 mm, should be specified as: INZP 1210/N.



Basic equipment of INZP arresters

GROUND LEAD DISCONNECTOR

It prevents the line from shutdown disconnecting the failed arresters from ground. It also plays as indicator, showing the arresters must be replaced. Ground interruption wiring connector admits M12 terminals.

INSULATING BRACKET

A high strength reinforced polyester insulating bracket is also supplied with standard INZP arresters set. This bracket provides both support and insulation to the arresters from ground level after the ground lead disconnecter has operated, in the unlikely event of arrester failure.

LINE TERMINAL

Securely clamps both aluminium or copper conductors from (Ø4 to Ø18 mm).

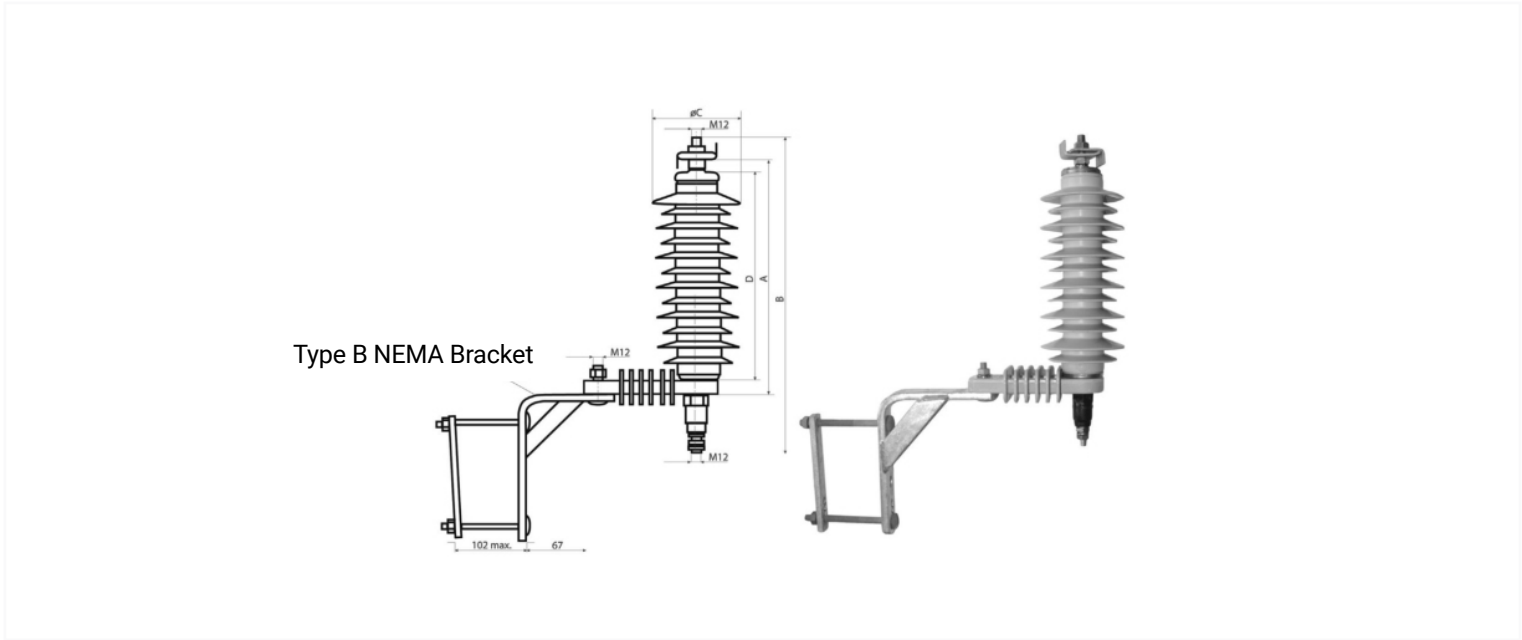
Accesories

TYPE B NEMA BRACKET

Under demand, our arresters can be also shipped with a standard NEMA type “B” bracket for crossarm or pole mounting.

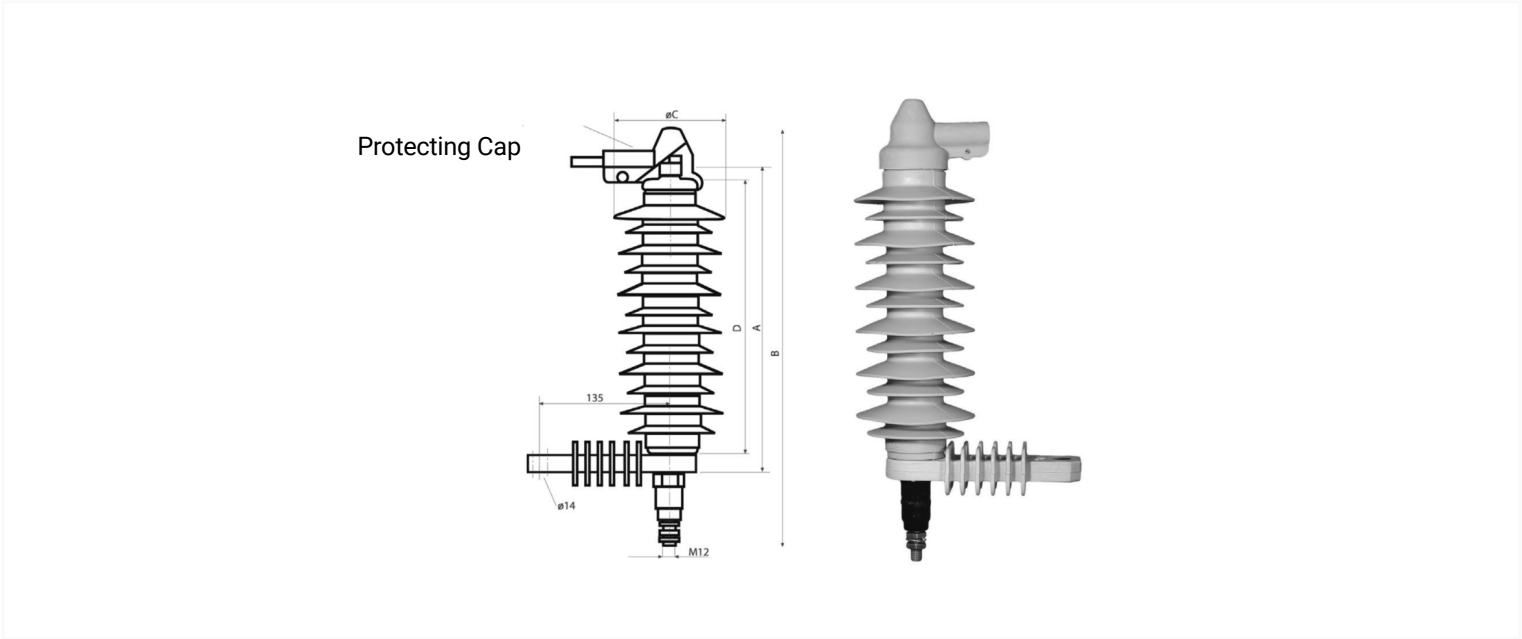
The bracket is also available with the carriage bolt captive in the standard con- figuration and the earthing connection.

They are manufactured in hot dip gal-vanised steel according to UNE-EN-ISO1461.



PROTECTING CAP

Under demand, we can also supply an insulating cap that totally covers the arrester’s upper electrical contact. This device prevents the connecting terminals from getting too dirt. This insulating cap is made of silicone rubber.

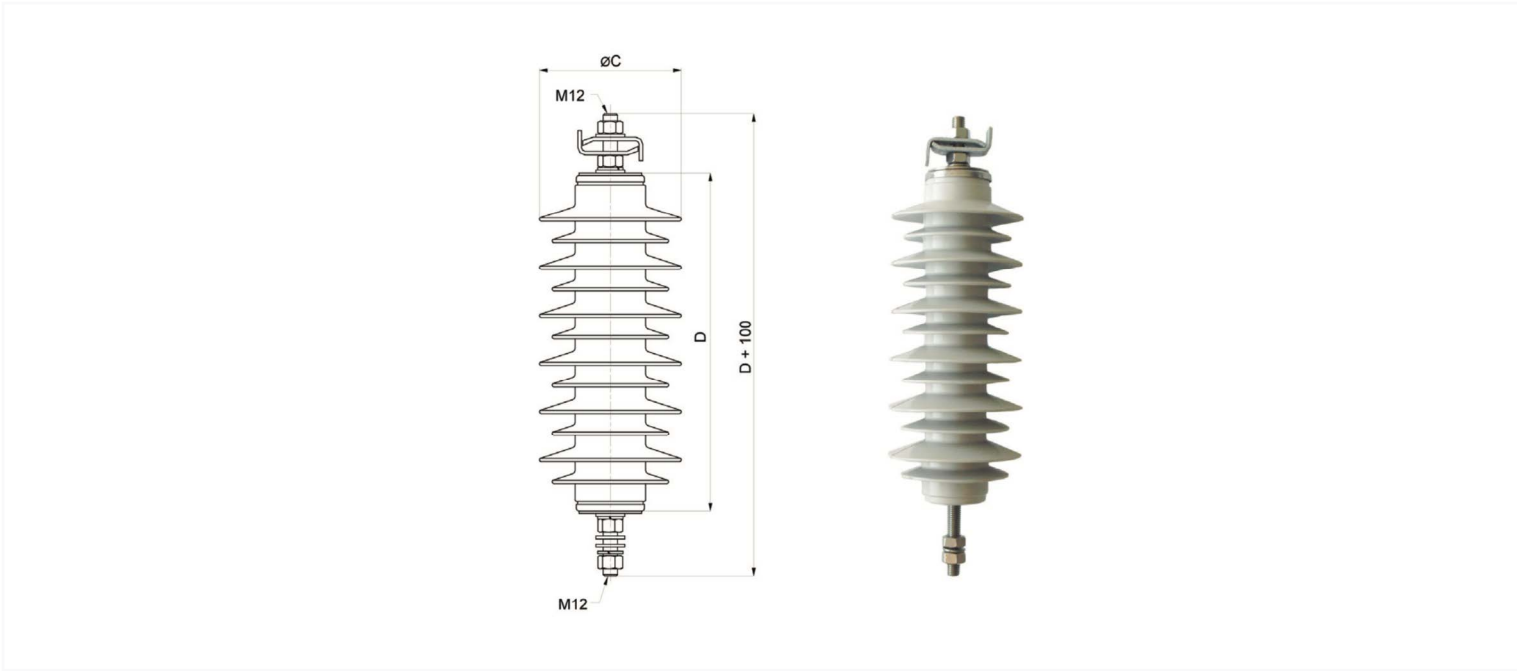


Dimmensions INZP							
Types	Ur kV	Dimmensions				Creepage distance mm.	Housing
		A	B	C	D		
INZP 0310	3	178	285	109	141	450	L
INZP 0610	6						
INZP 0910	9						
INZP 1210	12						
INZP 1510	15	219	326	106	186	462	P
INZP 1810	18						
INZP 2110	21						
INZP 2410	24	256	363	106	219	603	M
INZP 2710	27						
INZP 3010	30	317	424	115	280	795	N
INZP 3310	33						
INZP 3610	36						
INZP 3910	39	361	468	115	324	980	Z
INZP 4210	42						
INZP 4510	45						
INZP 4810	48						

Arresters without accesories

Sometimes, due to the installation requirements or customer request it is necessary to mount the arrester without earthing disconnecter. In this case it is not necessary to mount the insulating support.

In those cases, more attention is paid to lack of protection than to the line shutdown. The arrester is leaving the line in short- circuit, causing the corresponding protection. For the reposition of the service it is necessary to replace the failed arrester. Hereby it is secure that the equipment to be protected is never unprotected against overvoltages.



Station SL Class Porymeric Surge Arresters

INAEL Station Class Surge Arresters offer unrivalled performance and optimum cost. INAEL has pursued exhaustive R&D on the basic ceramic semiconductor components, the ZnO-based varistor blocks, designed and manufactured by us. This fact allows optimization of the cost/performance relation, as well as easy tailoring and customatization of performance parameters for any specific application.

Overvoltage protection with INAEL surge arresters has more than 15 years of excellent track record all through the word, with hundredths of thousand of arresters installed across Europe.

Excellent short-circuit performance, which guarantees a non-shattering behavior of the polymeric housing, allows for safe indoor application of INAEL arresters. The whole housing

acts as a carefully designed pressure relief device, thanks to a specific packaging technology that combines robustness with easy over-pressure self-relief.

The housing material is top-quality un-blended silicone, sealed through a specific process that guarantees water-tightness and prevents moisture ingress under any conditions, no matter how harassing. The system has been thoroughly tested for environ-mental ageing, having surpassed the most severe tests within international standards. In particular, recent studies demonstrate the correlation between materials successfully passing the IEC 5000 hours accelerated ageing test, and materials that have been in service for more than 20 years now without any indication of problems.

Respectively, materials that have presented service problems over a period below 10 years strongly correlate with materials and designs that were not put under accelerated ageing tests.

INAEL is proud of an excellent service record is extraordinary, with our arresters being installed all around the world, under all kinds of harassing environmental conditions (high salinity, strong winds with particles in suspension, high temperatu-res, dense fogs and heavy rains) without any failure being ever reported.

The origin of this successful service record is the exhaustive, fully automated, 100% quality control systems. Quality control commences with each and every varistor that is produced. Varistors pass through individual 100% exhaustive tests that guarantee excellent performance and service stability.

Tests results are individually recorder and varistors are marked, so each individual block is fully traceable. Then varistors are

assembled into stacks and packaged in the silicone housing in order to produce a final arrester, which in turn goes through a specially designed set of control tests in order to determine its optimum performance and to filter out any malfunctioning unit, no matter how tiny the malfunction could be.

Further details on quality control procedures are available on line. Full details on quality control procedures are available under request.



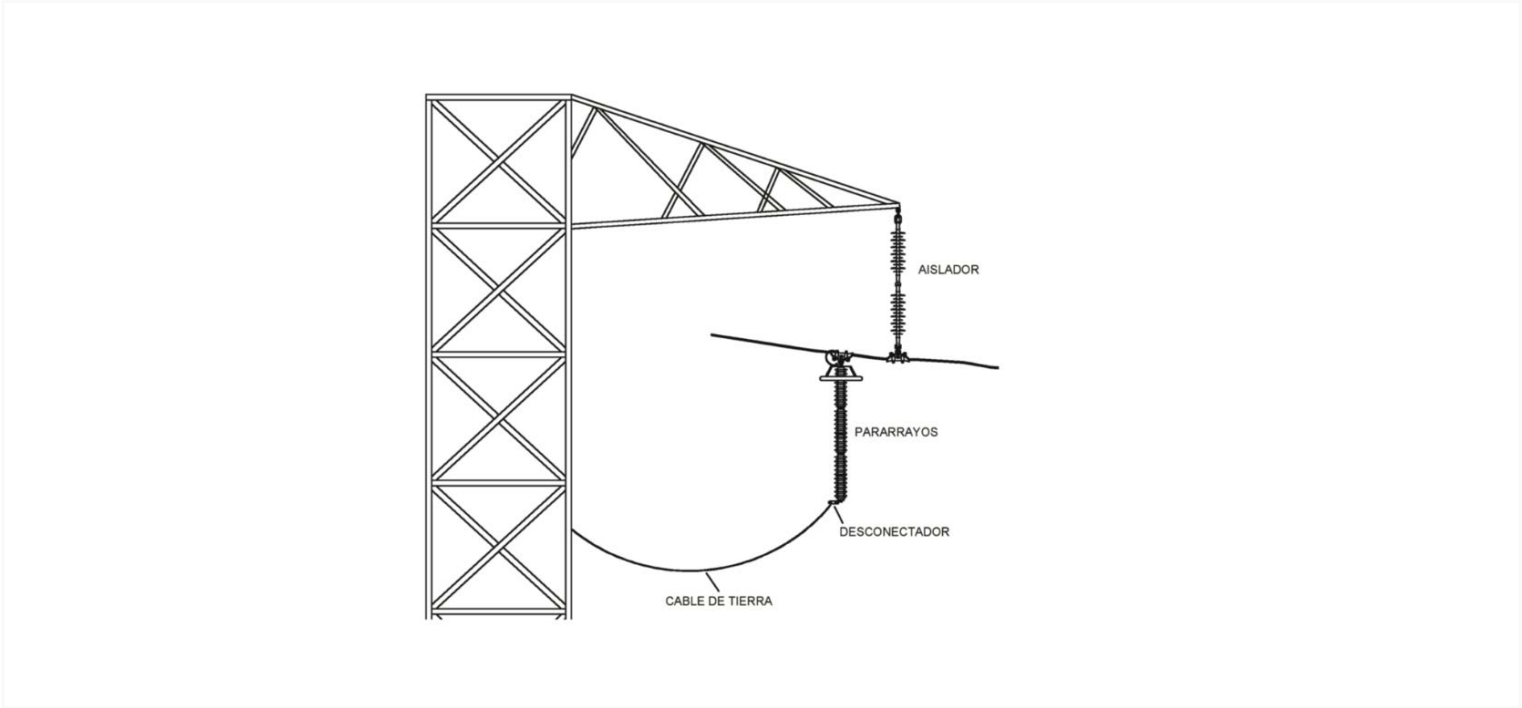
MAIN INNOVATIONS INCLUDE AVANTAGES

- Improved protection levels for better insulation coordination. In addition, INAEL`s varistor technology allows for residual voltages to be customized on request.
- Increased energy efficiency through reduced power losses under maximum continuous operating voltage.
- High energy handing capability and thermal stability
- Improved stability of electric performance through the years. Special production technology allows for increased stability of varistor materials.
- Outstanding performance under harassing environmental conditions. Proven track record under dense salt-fog, and strong abrasive winds. Water-tight sealing system provides a long-lasting barrier against moisture ingress.
- The built in pressure relief capacity provides non shattering performance under shot-circuit conditions. It allows for safe indoor installation and safe operation under any circumstance.

Transmission-line surge arresters

Grid reliability and power supply quality are a main concern in today´s transmission and distribution. The grid evolves towards new paradigms such as the widespread expansion of distributed generation, or the active and bidirectional flow of energy. All these concepts turn the grid into a sensitive object, where the requirements for supply reliability and grid stability become increasingly important. The transmission lines are critical elements for guaranteeing this reliability: many of them are overloaded and operating in conditions where any small disturbance might affect the system safety at a larger level.

In particular, transmission lines suffer outages due to a number of transient overvoltage conditions that largely exceed the insulation withstand and cause insulation flashover. These outages are a risk for system safety and stability, and they have a strong economic impact in terms of loss of supply quality and (in some countries) penalties on the energy sales. In many countries, more than half of the electrical faults of overhead transmission lines are caused by lightning-induced overvoltages, and about 20%-30% of these faults extend to double circuit faults. Ultimately, lightning strikes are the main cause for outgaes in overhead transmission, although other forms of overvoltage (typically switching surges) have been known to also (occasionally) exceed insulation withstand and cause flashover.



The application of surge arresters in transmission lines is a reliable and efficient way to improve lightning performance. This can also be achieved by improving the shielding angle or reducing tower footing impedances. However, surge arresters are the only effective solution for lines with poor shielding or for sections of a line with very high tower footing impedance (typically due to high soil resistivity).

The arrester prevents disruptive lightning discharges from exceeding the typical insulation level of transmission lines, which is significantly higher than the residual voltage developed across the arresters – regardless of the cause of the overvoltage: whether from a shielding failure (causing a flashover) or a ground-related phenomenon leading to indirect discharge hazards.

Furthermore, the use of surge arresters limits the propagation of overvoltage levels – for instance, when the line is energized and subjected to severe switching overvoltages.Inael transmission line surge arresters are installed directly on the transmission line, arranged in parallel with the insulator strings. Inael provides detailed case-specific analysis and offers guidance on optimal mounting configurations in order to avoid any clearance issues between the insulator string and the surge arrester.

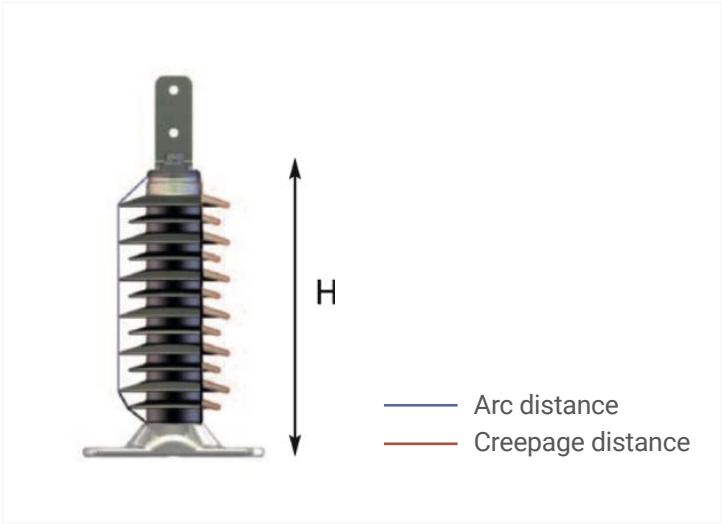
Inael’s transmission line surge arresters are gapless designs, utilizing state-of-the-art, low-loss varistor technology. This gapless concept brings to transmission lines all the advantages already proven in distribution networks and substation applications.

Moreover, Inael’s arresters deliver outstanding performance under all environmental conditions, regardless of the level of stress. Our polymeric housing (including both material composition and manufacturing details) has been tested according to the strictest international standards as well as the specific requirements of major utility companies worldwide.

ADDITIONAL ADVANTAGES ARE

- Energy efficient due to ultra low loss technology.
- Optimized protection levels due to new varistor technology allowing for lower residual voltages.
- Excellent performance reliability under moisture, pollution, salt fog, abrasive wind or any other environmental conditions.
- High performance stability even after severe discharge. Multipulse tested.
- Safety of operation under short circuit conditions due to non shattering nature
- of the housing.
- An automatic ground lead disconnecter can be attaché under request, isolating the arrester from the line in case of permanent short circuit, hence guaranteeing line supply.

INZSP 24/10/2



INZSP

Polymeric Substation Surge Arresters

24

Rated voltage (kV)

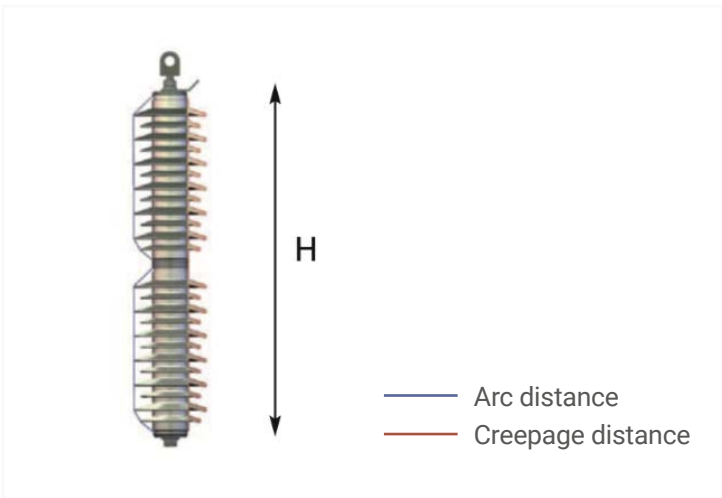
10

Nominal discharge current (kA)

2

Line discharge class

INZLP 24/10/2



INZLP

Polymeric Transmission Line Surge Arresters

24

Rated voltage (kV)

10

Nominal discharge current (kA)

2

Clase de descarga en línea

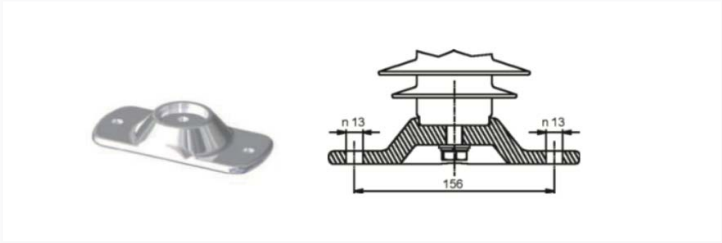
Table 2	
Rated voltage Ur (kV)	Between 6-120
Nominal discharge current (kA)	10
Transmission line discharge class (IEC 60099-4)	2
High current impulse withstand (4/10 µs) (kA)	100
Low current impulse withstand (2000 µs) (kA)	550
Energy absorption capacity according to operation duty test (with two line discharge impulses) (kJ/kV of Uc)	5,5 kJ
Short-circuit current rating (kA rms-s)	20 - 0,2
Tensile / compressive strength (N)	1150
Cantilever strength	350
Torsional strength (N-m)	70
Temporary overvoltages, with prior energy application (according to operation duty test)	1,32 p/u de Uc por 1s 1,26 p/u de Uc por 10s 1,19 p/u de Uc por 100s

Características generales							
Model	Rated Voltage Ur (kV)	Continuous Operating Voltage MCOV Uc (kV)	Residual Voltage at Nominal Discharge Current 8/20 µs - 10 kA (kV)	Residual Voltage for Switching Current Impulse (kV crest) (*)	H (mm)	Housing	
						Arc Distance (mm)	Creepage Distance (mm)
INZSP 06/10/2	6	5,1	15,1	14,4	216	172	462
INZSP 12/10/2	12	10,2	30,3	24,7	216	172	462
INZSP 18/10/2	18	15,3	45,4	37,1	249	217	603
INZSP 24/10/2	24	19,5	58	47,4	310	265	795
INZSP 30/10/2	30	24,4	73,2	59,7	355	265	980
INZSP 36/10/2	36	29	87,5	71,4	456	412	1135
INZP 42/10/2	42	34	100	80,7	456	415	1135
INZP 48/10/2	48	39	116	94,8	456	412	1135
INZP 54/10/2	54	42	125	102	627	573	1775
INZSP 60/10/2	60	48	142	116	672	616	1960
INZSP 66/10/2	66	54	156	128	773	720	2115
INZSP 72/10/2	72	57	167	136	874	824	2270
INZSP 84/10/2	90	70	210	171	874	824	2270
INZSP 96/10/2	96	76	224	183	1032	985	2910
INZSP 108/10/2	108	84	250	205	1097	1132	3250
INZSP 120/10/2	120	98	281	238	1299	1236	3405
INZSP 132/10/2	132	106	308	261	1299	1236	3405

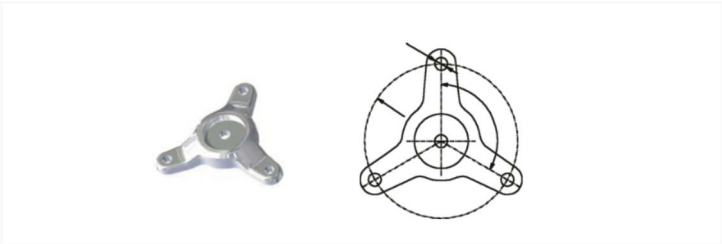
*Based on a 45/90 s-type waveform and the following current values: 500 A for rated voltages between 3 kV and 96 kV & 1000 A for rated voltages between 120 kV and 240 kV.

Accessories

Mounting base (for station class)

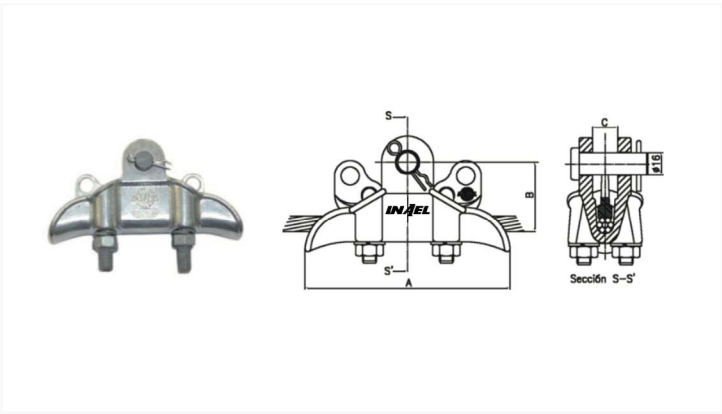


Two or three-hole mounting system, Al-alloy.



Other mounting arrangements available upon request.

Suspension clamp (for transmission line arresters)

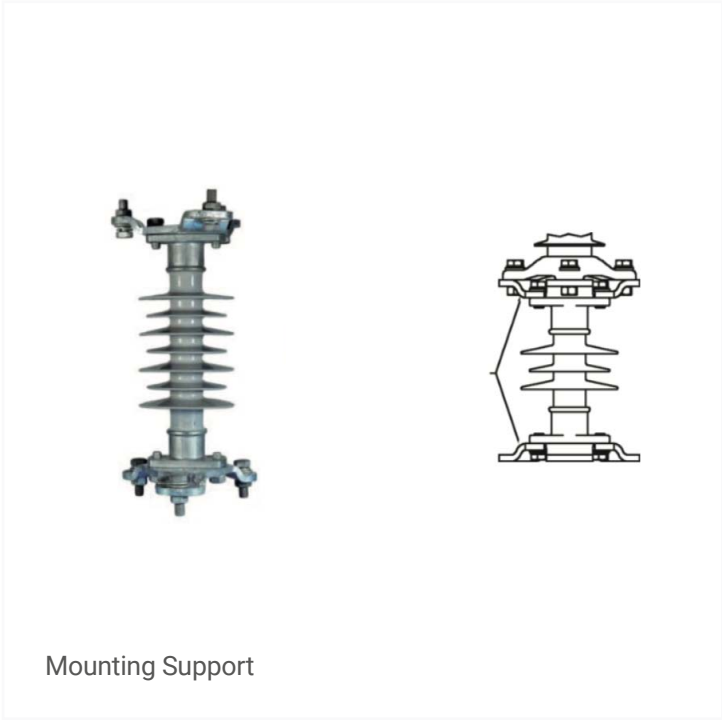


Manufactured in Al-alloy and intended for use with Al or Al-steel conductors.

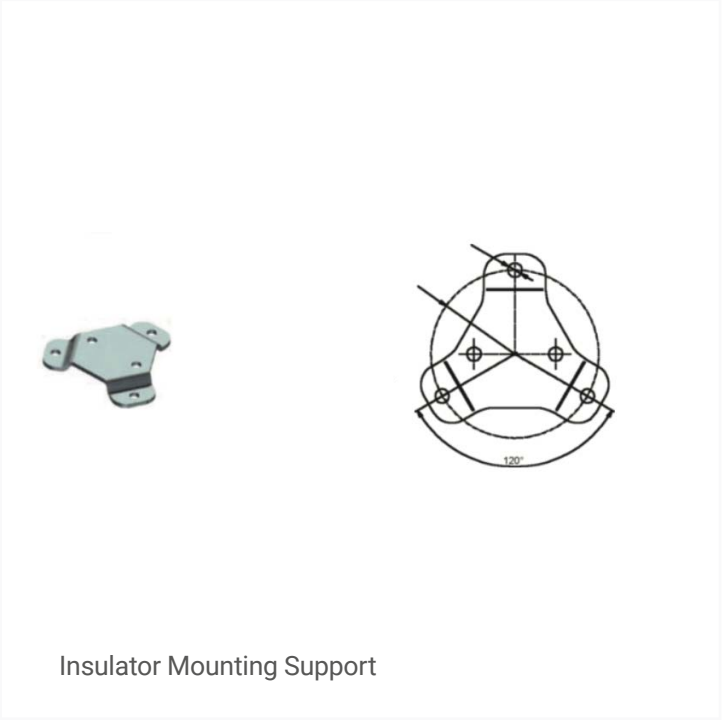
Type	Dimmensions (mm)			N° of U-bolts	Torque (daN.m)	ø conductor min- max (mm)	Conductor type	Charge rupture U.T.S. (kN)
	A	B	C					
GS-1	144	50	18	2 x M10	1.5	5 -12	LA-30, LA-56, LA-78	28
GS-2	173	58	18	2 x M12	3	12 -17	LA-110, LA-142	48
GS-3	210	71,5	27	2 x M12	4	17 - 23	LA-180	70

Base insulator (for station class arresters to be endowed with discharge)

Polymer insulator intended for insulating the metal base of the arrester from ground in order of a specific ground led to be attached that can lead the current through a discharge counter or a diagnosis/analysis system. The insulator is available only for the three holes mounting arrangement.



Mounting Support



Insulator Mounting Support

Grading ring

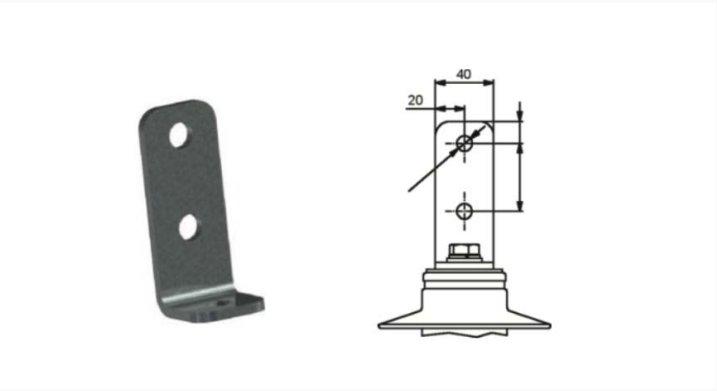
For rated voltages above 120 kV.



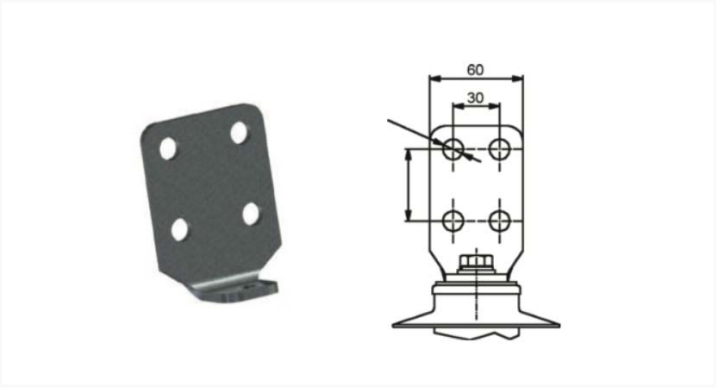
Line terminals



NEMA 2 holes
Galvanized Steel



NEMA 4 holes
Galvanized Steel



Line connector
Galvanized steel.



GENERAL CONDITIONS OF SALE

TODOS LOS PRECIOS, CÓDIGOS Y REFERENCIAS INDICADOS EN LA PRESENTE TARIFA, ESTÁN SUJETOS A VARIACIÓN SIN PREVIO AVISO

GENERAL TERMS

Any sale made by the Seller shall be expressly subject to the Buyer's full acceptance of the terms and conditions specified below and the waiver of the Buyer's general conditions of purchase, which acceptance and waiver shall be deemed to have been made on any order placed by the Buyer.

PURPOSE AND SCOPE OF THE OFFERS

The applicable prices are those shown in the Seller's price list in force on the date of the order.

The prices and conditions for specific offers shall relate exclusively to the products offered, valid for one month, unless otherwise stipulated.

The acceptance of an offer must be materialised with an order to the Seller. This shall be understood to be definitively accepted after the express and unreserved acceptance of the order by the Seller. The modifications and/or variations to the scope, deadlines or other terms of the contract that may be proposed by one of the parties must always be notified in writing and accepted by the same means.

TERMS OF PAYMENT

Unless special agreements have been made, all our sales are insured by an insurance company and will be made with a maximum payment of 60 days from the date of invoice in accordance with the provisions of Law 15/2010, of 5 July, amending Law 3/2004, of 29 December, which establishes measures to combat late payment in commercial transactions, without exceeding in any case the maximum periods established therein. For orders 300, payment shall be made in advance.

In the case of international sales and purchases, when payment is made by documentary credit, the buyer must obtain the seller's acceptance of the terms of the letter of credit and of the bank confirming it before it is issued. Due to the handling costs borne by the seller, a minimum invoice amount of 150€ will be applied to all sales.

TRANSPORT AND INSURANCE

For shipments within the Peninsula, shipments that exceed a net of 2000€ will go carriage paid, for any other destination the goods will be placed in EXW Toledo conditions. For shipments carriage paid, no transport claims will be accepted after 48 hours from delivery.in cases of urgent shipments, requested by the customer, such goods will always go carriage paid.the goods always travel at the risk of the buyer, who, in case of damage or delay, must make the relevant claim to the companies or transport agents, within 48 hours of delivery.

TOOLING AND PACKAGING

The tools made for the manufacture of special products shall be the responsibility of the customer, and shall be deposited at INAEL and used exclusively for the orders for which they were made. They may only be used for third parties with the express authorisation of the customer, and shall remain at INAEL's disposal five years after the last use. The delivery of the tools must be expressly agreed with the order. All materials shipped from INAEL to customers are in standard packaging suitable for road transport, any other type of specific packaging requested by the purchaser will be at the customer's expense.

MANUFACTURING

In the event of force majeure of any kind, including those caused by an obvious lack of raw materials, manufacturing difficulties, strike, lack of communication or catastrophe, INAEL is automatically released from any commitment made, and reserves the right to cancel orders pending production without prior notice.

DELIVERY TIMES

Delivery times are approximate, unless the Seller expressly accepts firm delivery times.

Delivery times shall commence from the latest of the following dates:

- Delivery times are approximate, unless the Seller expressly accepts firm delivery times.
- Delivery times shall start to run from the latest of the following dates
- Date of unreserved acceptance of the order by INAEL.
- The receipt by INAEL of the information at the customer's expense that is necessary for the execution of the order.
- The receipt by INAEL of the advance payment that is necessary for the execution of the order.

If the preconditions have not been fulfilled within 6 months from the existence of the contract, the contract shall be null and void and the customer shall waive all claims for damages. In the event that the customer requests the postponement of the delivery date, INAEL may invoice with the provision of the products on the agreed date, without prejudice to the passing on to the customer of the storage costs to be borne.

GENERAL CONDITIONS OF SALE

OWNERSHIP OF THE GOODS AND RETENTION OF TITLE

INAEL shall remain the owner of the goods until full payment of the invoice sales price, even if there is a bill of exchange. The customer is authorised to process the goods, but this authorisation shall cease as of right if the customer does not strictly observe the stipulated conditions.

RETURN OF MATERIALS

Returns are not admitted without the express intervention or consent of INAEL, and in no case for special materials. In the event that the return is accepted, all transport, revision and repair or verification costs for a new set-up will be the exclusive responsibility of the sender. No returns of any type of material will be accepted after one year from the date of delivery.

TESTS

Returns are not admitted without the express intervention or consent of INAEL, and in no case for special materials. In the event that the return is accepted, all transport, revision and repair or verification costs for a new set-up will be the exclusive responsibility of the sender. No returns of any type of material will be accepted after one year from the date of delivery.

GUARANTEE

We guarantee the products of our construction for one year, from the date of leaving the factory, against all defects in materials or manufacturing defects, obliging us, during this time, to repair or replace at our expense and in our factory, in the shortest possible time, any part recognized as defective, without compensation for any of the parties, not admitting responsibility for direct or indirect damages that may arise.

In order for our warranty to remain intact, it is essential to comply with the provisions of our operating manuals.

To ensure that our warranty is not affected, it is essential to comply with the instructions in our installation and maintenance manuals. Likewise, the notification or repair of our products without our intervention or consent, implies the termination of our warranty on them.

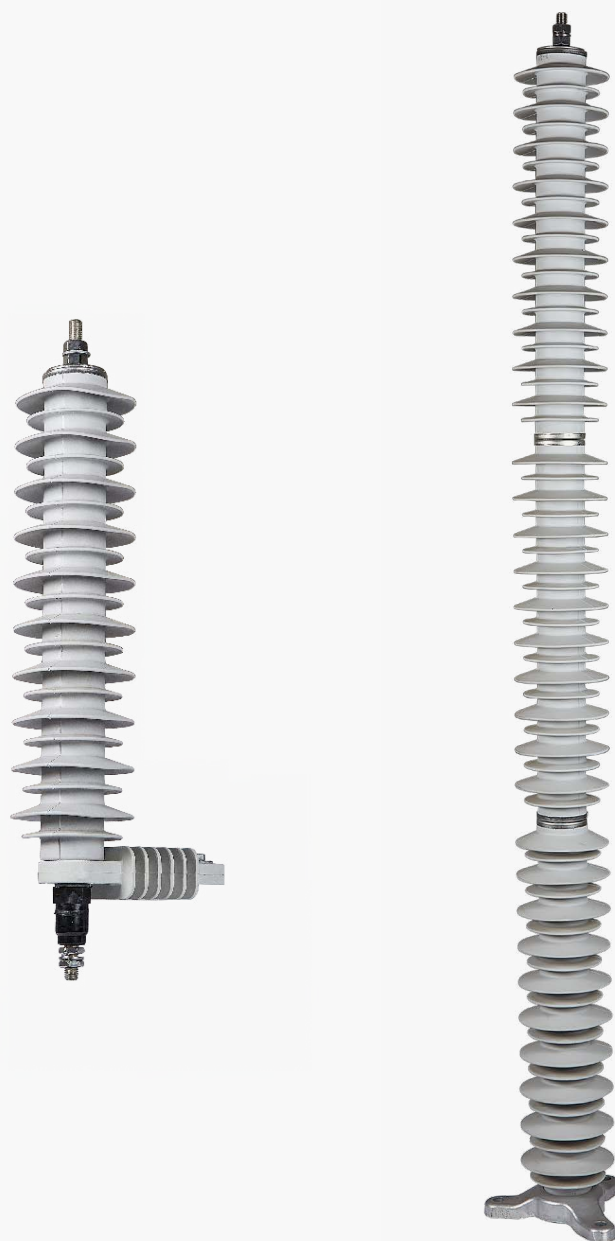
The repair of the product or part of it, its exchange or replacement during the warranty period, in no case will cause the extension of the warranty period of the product.

NORMATIVA MEDIOAMBIENTAL

It is the responsibility of the waste holder to collect and dispose of the waste or to have it collected and disposed of. For professional electrical and electronic equipment affected by European Directives 2002/96/EC of 27 January 2003 and 2006/66/EC of 6 September 2006 as well as the regulations implementing them, the organisational and financial responsibility for the collection and processing of waste arising from such equipment placed on the market after 13 August 2005 has been transferred to the direct purchaser who accepts it. The direct purchaser undertakes to assume responsibility for the collection and disposal of the waste arising, as well as for its processing and recycling. Failure by the purchaser to comply with these obligations could lead to the application of the criminal sanctions of each member state of the European Union. INAEL hereby warrants that the substances, either alone or contained in products it has incorporated for the production process in question, have been used in accordance with the provisions relating to registration, authorisation and limitation.

JURISDICTION

In the event of disputes, the Courts and Tribunals of Toledo shall have jurisdiction, to which both parties expressly agree to submit, waiving their own jurisdiction.



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