

Medium voltage current limiting fuses

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Medium voltage current limiting fuses: Quality and reliability since 1977

Inael Electrical Systems began its business in 1977 with the manufacture and marketing of medium-voltage fuses.

Over the years, they have evolved technologically, improving their efficiency.

Our fuses, in addition to reminding us of our origins, represent and are recognized as top-quality products in the global market.





Toward a smart, sustainable, and efficient electricity

The medium voltage fuse is a component used in electrical circuits to protect the medium voltage switchgear against dynamic and thermal effects of short-circuits.

For more than thirty years INAEL Electrical Systems S.A has designed, certified, manufactured and commercialized a broad range of medium voltage fuses offering to the market

Solutions for protection in:

- Distribution transformers
- Voltage transformers
- Medium voltage motors
- Capacitor protections
- Medium voltage distribution line
- Power lines

Solutions for application in:

- Gas or Air isolated indoor switchgear
- Outdoor switchgear
- Oil isolated switchgear

High working performances:

- Low consumption, low power loss and low temperature increase
- Low minimum melting current, high intensity restriction
- High rated breaking capacity, high breaking capacity
- Low arc voltage, high versatility for its use
- High watertightness, high reliability for its use in severe conditions
- Traceability and unit production process control
- Product quality guarantee

Standars and Specifacctions:

- IEC 60282: High-voltage fuses. "Current limiting fuses"
- IEC 60787: Selection of fuse-links of high-voltage fuses for transformer circuit application
- IEC 60644: Specification for highvoltage fuse-links for motor applications
- IEC 60549: High-voltage fuses for the external protection of power capacitors
- IEC 62271-105 : High Voltage Alternating Current Switch – Fuse Combinations
- UNE-EN 60282-1: Current limiting fuses • DIN 43625: High-voltage fuses rated voltages 3,6 to 36 kV

Our customer service includes:

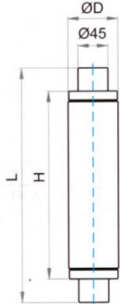
- Advice in the product selection
- Solution of technical problems raised of the product applications
- Personalized solutions for specific applications
- Commercial network for our customer requests in any part of the world

Fuses that we show in this catalog are back-up fuses able to interrupt all the intensities from its disconnection minimum intensity (I3) till its rated breaking capacity (IN).

Our fuses RELIABILITY and BENEFITS as well as INAEL Electrical Systems S.A EXPERIENCE allow us to OFFER a QUALITY and RELIABLE PROTECTION for medium voltage switchgear.

Fuses type IB-D1. IB-2 & IBD-3 (DIN)

Under order, can be supply fuses with higher size than their normal rated voltage.

Types	Rated Voltage	Rated current A	Dimensions			Aprox weight Kg	
			H	L	ØD		
IB-D2	3-3.6	2.5-100	192	260	73	1.2	
IB-D1	6-7.2	2.5-63			53	1.1	
IB-D2		80-100			73	1.8	
IB-D1	10-12	2.5-40	292	360	53	1.6	
IB-D2		25-80			73	2.6	
IB-D3		80-100			86	3.2	
IB-D1	(15-17.5)	2.5-40			53	1.6	
IB-D2		25-63			73	2.6	
IB-D3		80-100			86	3.2	
IB-D1	(15-17.5)	2.5-40	365	433	53	1.9	
IB-D2		25-63			73	3.5	
IB-D3		80-100			86	3.8	
IB-D1	13-24	2.5-40	442	510	53	2.3	
IB-D2		25-63			73	3.9	
IB-D3		80-100			86	4.4	
IB-D3	25-36	2.5-40	537	605		4.4	
IB-D1	25-36	2.5-25			53	2.7	
IB-D2		20-40			73	4.6	
IB-D3		50-80			86	5.6	



Fuses Type IB-DG & IB-DK

Under order, can be supply fuses with higher size than their normal rated voltage.

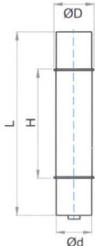
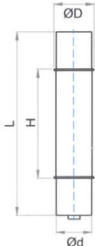
Tipos	Tensión asignada kV	Corriente asignada A	Dimensiones mm.			Peso aproximado Kg
			H	L	ØD	
IB-DK	2	125-150	212	290	81	2,0
	3-3,6	90-100				2,0
IB-DG	7,2	2,5-80		280	60	1,3
IB.DK		100	290		2,4	
		125	262	340	81	2,5
		150	312	390		2,6
IB-DG		12	2,5-6,3	262	330	60
IB-DK	17,5	80-100		340	81	2,5
IB-DG		2,5-40	312	380	60	1,8
IB-DK		50-80		390	81	2,9
		100	362	440		3,3
IB-DG		24-28	2,5-40		430	60
IB-DK	36	40-100		440	81	3,3
IB-DG		2,5-32	569	637	60	2,8
IB-DK		32-80		647	81	5,0
IB-DG	52	2,5-12,5	712	780	60	3,7
IB-DK		12,5-32		790	81	6,2





Fuses Type IB-F, IB-L & IB-P

Under order, can be supply fuses with higher size than their normal rated voltage.

Types	Rated Voltage kV	Rated Current A	Dimensions mm.				Approx weight Kg	
			H	L	Ød	ØD		
IB-F3		4-10	169	297	46	50	1,2	
	7,2	16-50	252	380	60	65	3,0	
IB-L3		63-125	251	373	80	84	3,9	
IB-P3		160-250		454			4,8	
IB-F4	12	40-50	332	462	60	65	2,8	
IB-F5	24	4-10	252	380	46	50	1,4	
		16-32	332	462	60	85	2,8	
		40-50	449	575			3,4	
IB-L5		63-125	452	580	92	98	7,8	
IB-F6	25	4-10	332	462	60	65	2,7	
		16-50	451	575	80	84	5,9	
IB-F7	36	4-10	449	579	60	65	3,5	
		16-32	571	693	80	84	7,2	

Tecnichal Characteristics

If you need additional information about other current ratings, please contact vs.

1) I1= Rated breaking capacity.

2) I3= Minimum melting current.

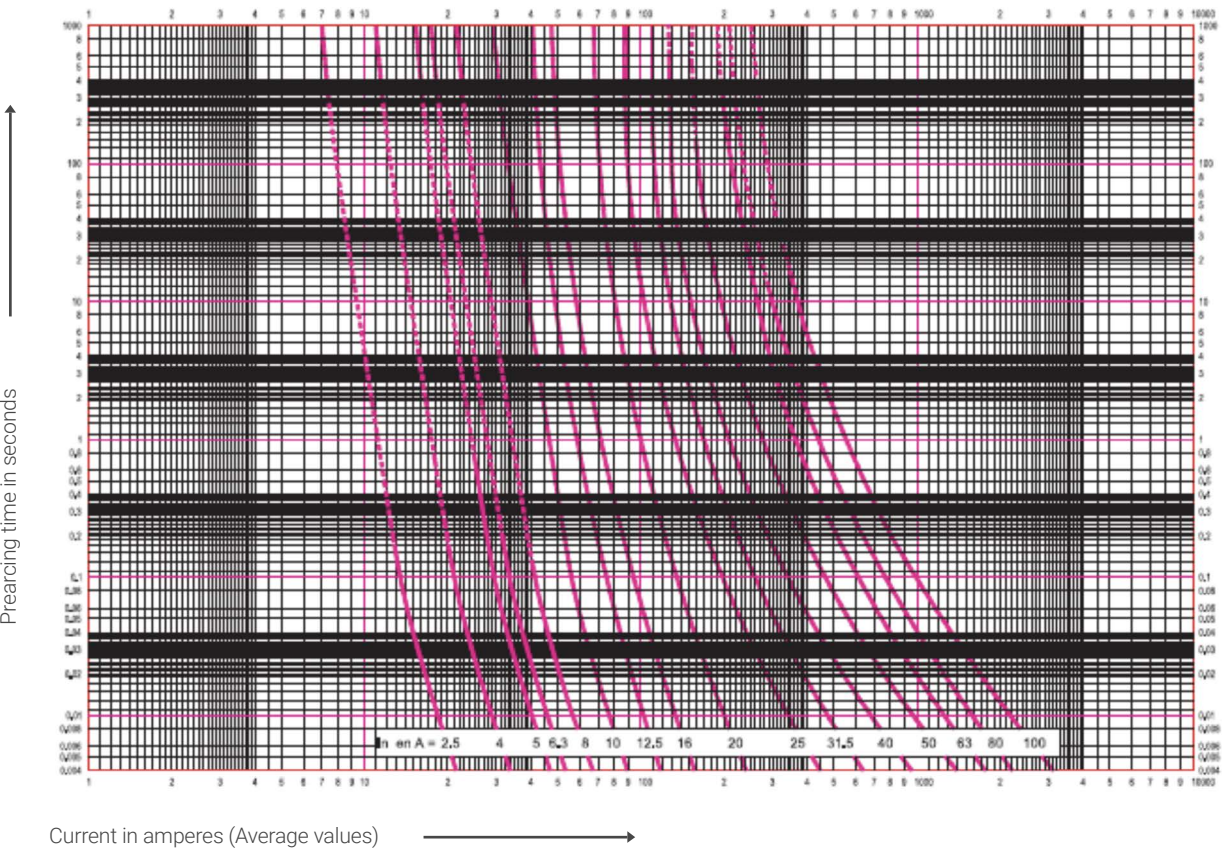
Types	Rated voltage kV	Rated current* A	I ₁ ¹⁾ kA	I ₂ ²⁾ A	Rated Power Loss W		Resistance a 20° mΩ	I ₁ ¹⁾ kA2s	
					50%	100%		Pre-arcing Time	Arcing Time
IB-D1	12	2,5	25	12,5	3,4	12	1390	0,003	0,22
		4		20	4,2	15	691	0,004	0,25
		5		25	1,1	4,2	324	0,005	0,3
		6,3		31,5	2,2	12	257	0,015	0.9
		8		40	3,9	15	216	0,032	1,45
		10	80	20	4,3	19	159	0,04	1,82
		12,5		26	4,4	20	105	0,12	5,0
		16		34	6,2	27	85	0,2	8,3
		20		51	6,2	28	56	0,6	11
		25		76	6,3	29	37	0,8	14
		31,5		101	7,8	36	28	1,8	19
IB-D2		40	71	125	10	50	22	2,2	25
		25		64	6,1	29	37	0,8	14
		31,5		85	7,4	36	28	1,8	19
		40		106	9,8	50	22	2,2	25
		50		159	10	52	14	5,5	48
		63	25	210	12	64	11	7,8	60
		80		290	18	105	9,1	18	160
		100		350	22	120	6,5	28	300
IB-D3		80	31,5	237	17	108	9,8	20	180
		100		333	20	118	7	31	334

Tecnichal characteristics

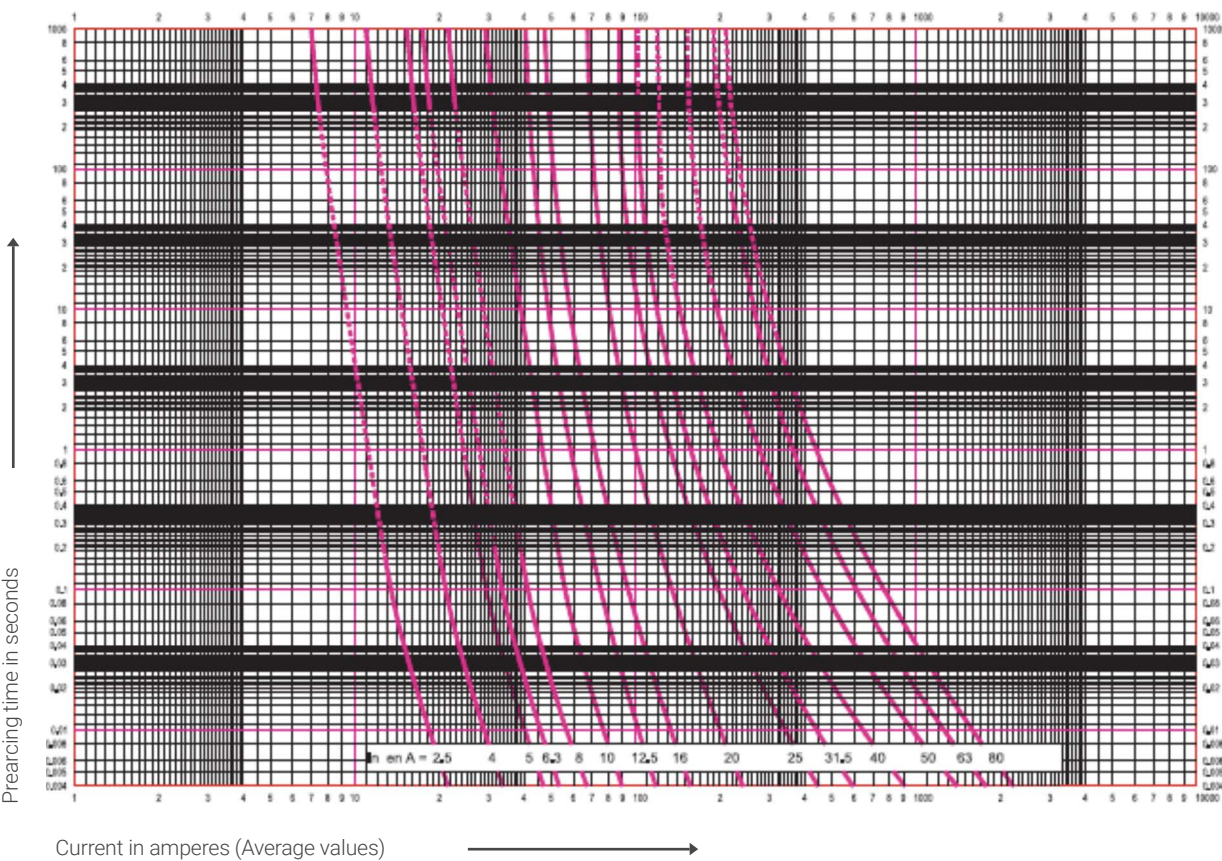
* If you need additional information about other current ratings, please contact vs.
1) I1= Rated breaking capacity.
2) I3= Minimum melting current.

Types	Rated voltage kV	Rated curent* A	I ₁ ¹⁾ kA	I ₂ ²⁾ A	Rated Powe Loss W		Resistencia a 20º mΩ	I ₁ ¹⁾ kA2s	
					50%	100%		Pre-arcing time	Arcing time
IB-D1	24	2,5	25	12,5	5,3	20	2163	0,005	0,3
		4		20	7,7	25	1030	0,008	0,45
		5	50	25	37	20	630	0,01	0,6
		6,3	25	31,5	4,0	20	500	0,007	4,5
		8		40,7	7,5	35	420	1,1	7,1
		10	50	20	9,7	42	315	2	22
		12,5		26	10	46	205	2,5	25
		16		35	11	57	165	3	28
		20		52	13	60	110	4	31
		25		78	11	64	73	4,2	34
31,5		104		15	77	55	5	39	
IB-D2		40		128	20	115	44	6	42
		50		150	21	112	28	7	50
		63		200	24	140	22	9	107
		80	25	290	38	225	18,3	19	166
100		350		45	260	13,2	24	208	
IB-D3		80	31,5	241	32	210	17,5	20	180
		100		338	40	243	12,5	32,3	203
IB-D1	36	2,5	25	12,5	8,2	32	3220	0,003	0,22
		4		20	12	40	1545	0,004	0,25
		5		25	4,5	18	890	0,005	0,3
		6,3		31,5	8,2	32	710	0,015	0,9
		8	40	40	10	50	590	0,032	1,45
		10		22	11	55	445	0,04	1,82
		12,5		29	12	58	287	0,12	5,0
		16		38	18	82	220	0,2	8,3
		20		57	17	85	148	0,6	11
		25		85	18	87	98	0,8	14
20		58		17	84	148	0,6	11	
25		87		17	85	98	0,8	14	
31,5		102		23	125	83	1,8	19	
IB-D2		40	25	135	29	164	60	2,2	25
		50		185	35	195	37	5	45
		63		220	48	235	29	8	90

Time-current characteristic for12 kV and 24kV



Time-current characteristics for 36kV

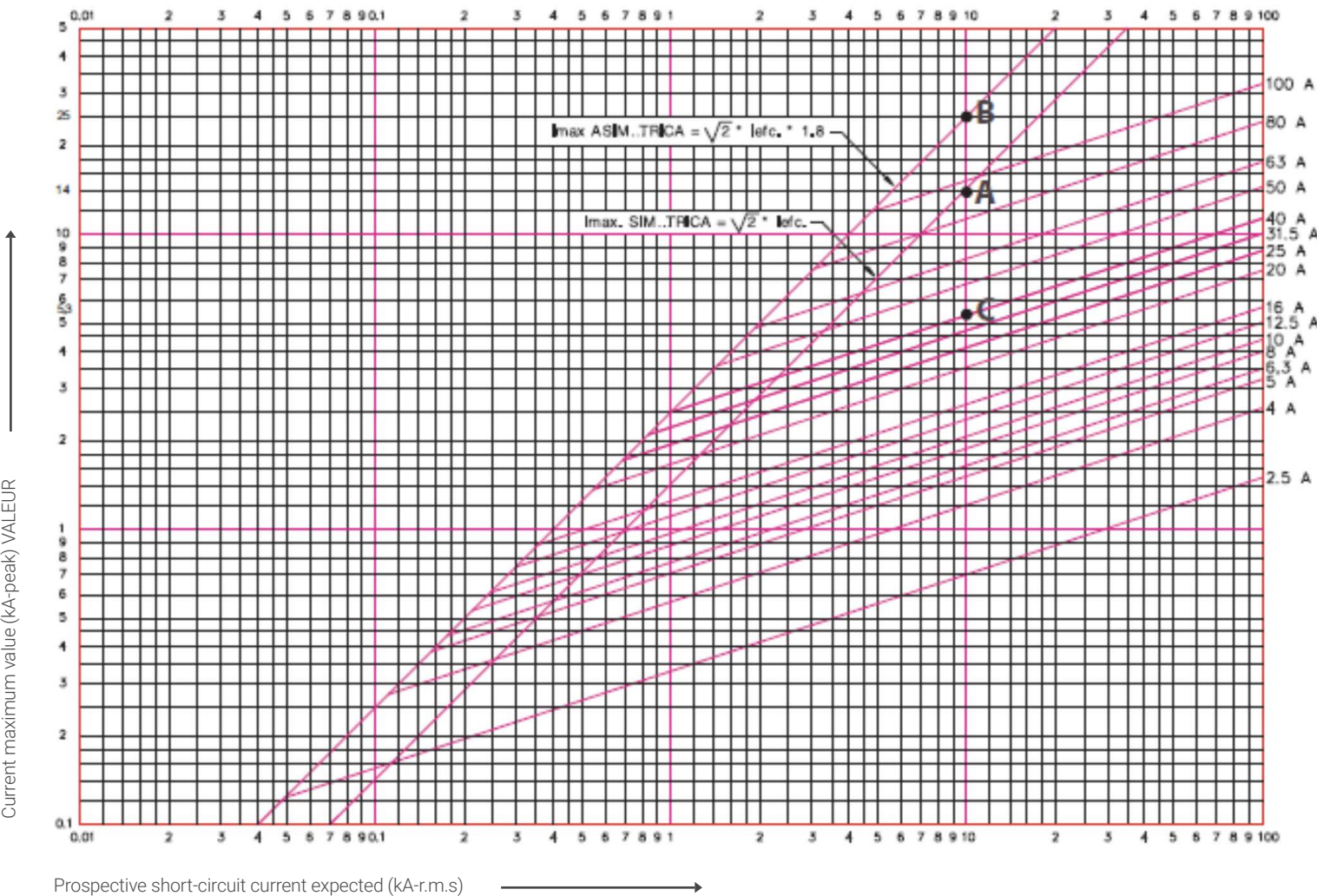


Cut-off current characteristic up to 36kV

The high voltage current limiting fuses we are introducing in this document do efficiently limit the current that flows through the circuit. This means, because of very quick ope-ration under certain values of the short-circuit current, the fusion prevents the first half-wave of the short circuit from reaching its corresponding maximum value (that would be attained in absence of the fuse).

Example: Take a circuit in wich the expected short-circuit current reaches up to 10 kA (symmetric effective value).

If the short-circuit wave is totally symmen- tric, it will reach a maximum instantaneous value of 14 kA (point A). Should the wave be totally asymmetric, the maximum instantaneous value would be 25 kA (point B). In any case, if the fuse mounted in the circuit has a rated current In=40 A, the current's maximum instantaneous value will be limited to 5.3 kA (point C).



Aplication guide

Change of medium voltage fuses

According with standard IEC 60282-1 when some of the fuses of the system has worked and must be changed or substituted in two-phase and three- phase systems is recommended to replace all the fuses of the system protection.

Transformers protection

Back-up fuses are basically used for transformers protection. Data showed in the following selection table which offers recommendation for transformers of 10-2500 kVAs should be applied in order to guarantee an adequate protection.

Transformation Power	Rated Voltage in kV																	
	6-7.2		10-12		15-17.5		20-24		25-28		30-36							
	Corriente de los transformadores en A																	
10	1	0.64	4	0.6	0.64	2	0.38		2	0.3		2						
15	1.5	1.6	6	0.9	0.64	4	0.57		2	0.46		2	0.3		2			
20	2	1.6	6	1.15	0.64	4	0.77	0.64	2	0.57		2	0.46		2	0.4	2	
25	2.4	2	8	1.44	0.64	6	0.96	0.64	4	0.72	0.64	4	0.57	0.64	2	0.5	2	
50	4.8	4	12.5	2.94	2	10	1.92	1.6	6	1.4	0.64	6	1.15	0.64	4	1	0.64	4
75	7.2	7	16	4.3	4	12.5	2.9	3	8	2.1	2	8	1.73	1.6	6	1.4	0.64	6
100	9.6	7	20	6.8	5	16	3.8	3	10	2.9	2	8	2.3	2	8	1.9	1.6	6
125	12	10	25	7.2	7	16	4.8	4	12.5	3.6	3	10	2.9	2	8	2.4	2	8
160	15.4	10	32	9.2	7	20	6.1	5	16	4.6	4	12.5	3.7	3	10	3.1	2	8
200	19.2	15	40	11.5	10	25	7.7	7	16	5.8	5	16	4.6	4	12.5	3.8	3	10
250	24	20	50	14.4	15	32	9.6	10	20	7.2	7	16	5.7	5	12.5	3.8	3	10
315	30	25	63	18.2	15	40	12.1	10	25	9.1	7	20	7.3	7	16	6	5	16
400	38	30	80	23	20	50	15.4	15	32	9.6	10	20	9.2	7	20	7.7	7	20
500	48	40	100	28.9	25	63	19.2	15	40	14.4	10	32	11.5	10	25	9.6	7	20
630	60	50	125	36.4	30	80	24.2	20	50	18.2	15	40	14.5	10	32	12.1	10	25
800	77	70	160	46.2	40	100	30.8	30	63	25	20	50	18.5	15	40	15.4	10	32
1000	96	90	200	57.8	50	125	38.5	30	80	28.9	25	63	23.1	20	50	19.2	15	40
1250				72.7	70	160	48	40	100	36.1	30	80	28.9	25	63	24	20	50
1600							61	60	125	46.2	40	100	37	30	80	30.8	25	63
2000										57.8	50	125	46.2	40	100	38.5	30	80
2500													57.7	50	125	48.1	40	100
		Rated fused current A																
		Rated relay current A																

Motor protection

Back-up fuses are used for motors protection since they protect the motor against unacceptable overloads. They are designed to cover special protection needs of pumps electrical motors, mills, fans, etc.Recommended data for the appropriate selection are showed in the following table.

Transformer power		Mover power CV (yield 87%, cos 0.9)									
		100		125		160		200		250	
		Rated Current A									
Línea	Fuse	Fusible	Relé Térmico	Fusible	Relé térmico	Fusible	Relé térmico	Fusible	Relé térmico	Fusible	Relé térmico
3	7.2	40	15	63	20	63	25	100	30	100	40
5		30	10	40	10	40	15	63	20	63	25
6		30	7	30	10	40	10	40	15	63	20

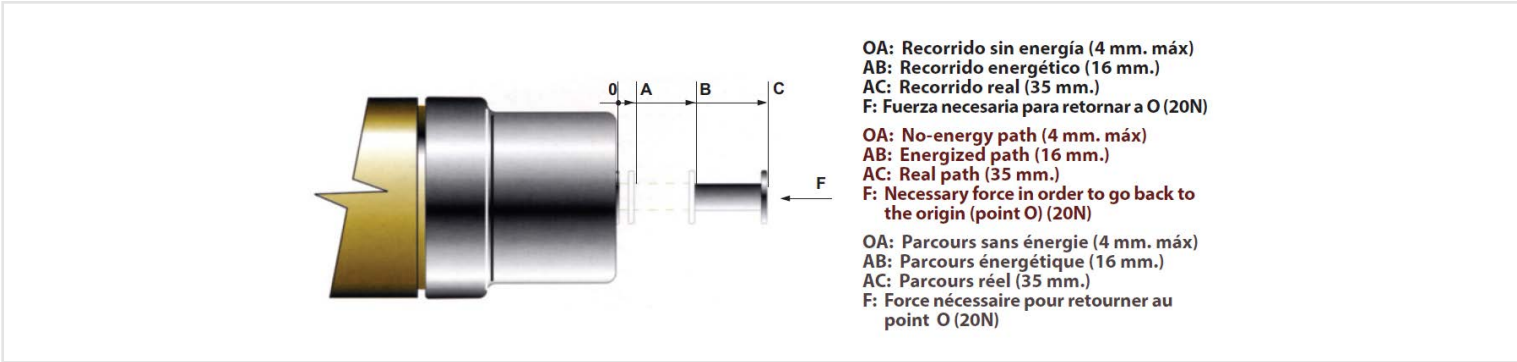
Protection capacitors

Back-up fuses are used for capacitors or bank of capacitors protection when are connected to one network. Fuses avoid the generation of short-circuit intensity peaks which size and duration depend of the installation characteristics. Recommended data for the appropriate selection are showed in the following table.

Rated voltage kV		Capacitor's power kVAR						
		40	100	160	240	250	360	720
Line	Fuse	Rated current A						
3	7.2	16	40	63	100	100	-	-
5		10	20	30	40	63	63	-
15	24	6	10	16	20	20	25	63
20		6	6	10	16	16	20	40

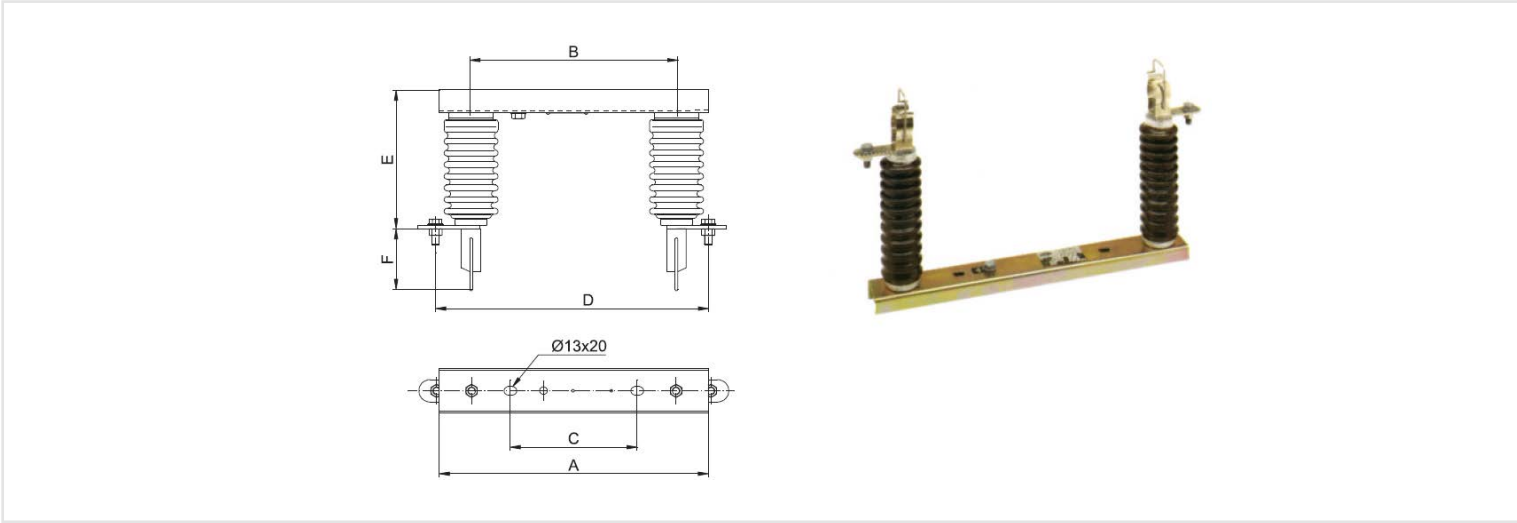
Strikers characteristics

INAEL medium voltage fuses are equipped with 80 Newton strikers connected in parallel with a high resistance conductor. Once the main elements of the fuse are fused, the parallel conductor is also fused and therefore strikers are immediately released by a spring. The striker will open a breaking capacity device or will activate a remote indication device. Main characteristics of our 80 N strikers are according with standard IEC 60282-1 and its identification is MEDIUM TYPE.



Indoor fuse holderbase

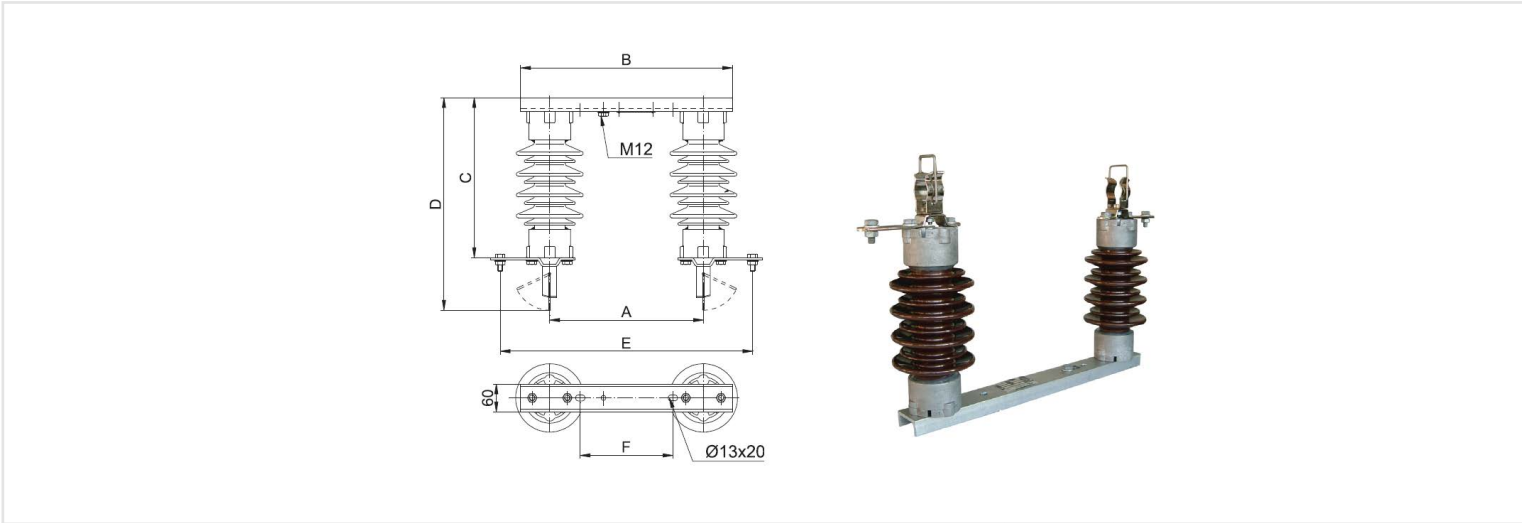
The installation of the INAEL microswitch assembly for both indoor and outdoor MV fuse bases allows the monitoring of the MV fuse status by means of a flexible element the movement of the fuse striker is transferred to a microswitch . The microswitch has a variable contact and is compatible for 250 Vac 6 A.



Types	Fusible Type	Rated voltage	Withstand voltage		Dimesions mm						Approx weight Kg
			Lightning inpulses 1.2/50µs	Frecuencia industrial en seco	A	B	C	D	E	F	
BA-ID	DIN	7.2	60	20	400	228	322	349	173	95	4.1
BA-ID		12	75	28	424	328	200	449	173		5.3
BA-17.5/12-ID		17.5	95	38	424	328	200	449	218		5.7
BA-ID		17.5	95	38	576	401	270	522	218		6
BA-ID		24	125	50	576	478	270	599	298		6.3
BA-ID		36	170	70	670	573	350	694	352		7.5
BA-IG	DG/DK	7.2	60	20	400	248	322	369	173	110	4.1
BA-IG		12	75	28	424	298	200	421	173		5.3
BA-IG		17.5	95	38	424	348	200	469	218		5.9
BA-IG		24	125	50	576	398	270	520	298		6
BA-IG		36	170	70	700	605	350	726	352		6.3

These bases can equip a detector of fused fuses.

Bases type bsc, for fusibles IB-D / IB-DG / IB-DK

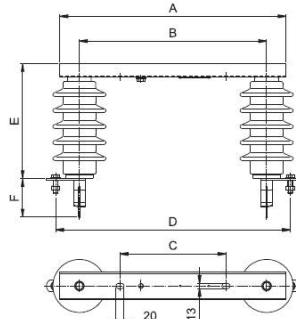


Types	Fusible Type	Rated voltage kV	Withstand voltage		Dimensions						Approx weight Kg
			Lightning inpulses 1.2/50µs	Drypwer frequency kV. efc (Rms)	A	B	C	D	E	F	
BSC-ID	DIN	17,5	75	28	328	448	284	397	516	200	3,5
BSC-17,5/12-ID		17,5	95	38	328	448	350	478	516	200	5,7
BSC-ID		17,5	95	38	401	521	350	478	589	270	6
BSC-ID		24	125	50	478	598	350	478	666	270	6,3
BSC-ID		36	170	70	573	693	455	583	761	350	8
BSC-IG	DG/DK	12	75	28	298	448	284	412	486	200	3,4
BSC-IG		17,5	95	38	348	521	350	493	536	270	5,9
BSC-IG		24	125	50	398	521	350	493	586	270	6,1
BSC-IG		36	170	70	605	725	455	598	598	350	8,1
BSC-IG		52	250	95	714	992	615	738	738	293	43,2

These bases can equip a detector of fused fuses.

Bases type bsc,for fuses IB-D / IB-DG / IB-DK

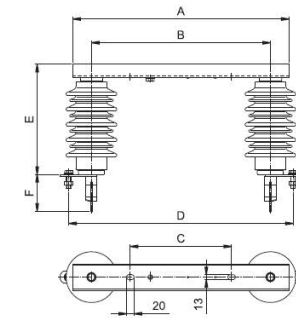
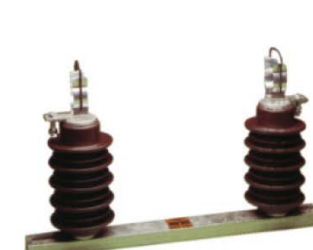
If sockets with insulators in inverted position are required, the designation shall be changed to BB/2 instead of BB/1.

  BB/1- BB/2												
Types	Fusible Type	Rated voltage	Withstand voltage		Drypower frequency					Line mm	Aprox Weight Kg	
			Lightning inpulses 1.2/50µs	Drypower frequency	A	B	C	D	E			
BB/1-ED	DIN	7,2	60	20	400	228	322	349	263	95	375	5,9
BB/1-ED		12	75	28	424	328	200	449	263		375	6,1
BB/1-17,5/12-ED		17,5	95	38	424	328	200	449	263		375	7,3
BB/1-ED		17,5	95	38	576	401	270	521	263		375	10,1
BB/1-ED		24	125	50	576	478	270	599	311		475	12,5
BB/1-ED		36	170	70	670	576	350	694	383		625	14
BB/1-ED	DG / DK	7,2	60	20	400	248	322	369	263	110	375	5,9
BB/1-ED		12	75	28	424	298	200	421	263		375	6,1
BB/1-17,5/12-ED		17,5	95	38	424	298	200	421	263		375	7,3
BB/1-ED		17,5	95	38	576	348	270	469	263		375	10,1
BB/1-ED		24	125	50	576	395	270	520	311		475	12,5
BB/1-ED		36	170	70	670	605	350	726	383		625	14

These bases can be equipped with a fused gun detector.

Bases type, for fuses IB-D / IB-DG / IB-DK

If sockets with insulators in inverted position are required, the designation shall be changed to BS/1 instead of BS

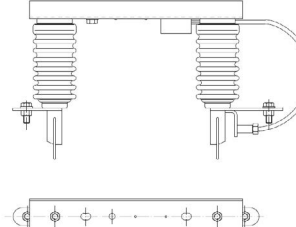
  BS - BS/1											
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Types	Fusible Type	Rated voltage	Withstand voltage		Drypower frequency						Line mm	Aprox Weight kg
			Lightning inpulses 1.2/50µs	Drypower frequency	A	B	C	D	E	F		
BS-7,2-ED	DIN	7,2	60	20	400	228	322	349	208	95	330	7,2
BS-12-ED		12	75	28	424	328	200	449	208		330	7,4
BS-17,5/12-ED		17,5	95	38	424	328	200	449	248		455	8,8
BS-17,5-ED		17,5	95	38	576	401	270	521	248		455	11,6
BS-24-ED		24	125	50	576	578	270	599	298		565	13,9
BS-36-ED		36	170	70	670	573	350	694	378		800	15,9
BS-7,2-EG	DG / DK	7,2	60	20	400	248	322	369	208	110	330	7,2
BS-12-EG		12	75	28	424	298	200	421	208		330	7,4
BS-17,5/12-EG		17,5	95	38	424	298	200	421	248		455	8,8
BS-17,5-EG		17,5	95	38	576	348	270	469	248		455	11,6
BS-24-EG		24	125	50	576	395	270	520	298		565	13,9
BS-36-EG		36	170	70	670	605	350	726	378		800	15,9

These bases can be equipped with a fused gun detector.

Outdoor fuse holderbase

The installation of the INAEL microswitch assembly for both indoor and outdoor MV fuse bases allows the monitoring of the MV fuse status by means of a flexible element the movement of the fuse striker is transferred to a microswitch . The microswitch has a variable contact and is compatible for 250 Vac 6 A.

 											
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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, INAEI 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

INAEI 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. INAEI 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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