

arteche



INSTRUMENT TRANSFORMERS.
LOW VOLTAGE.
INSULATORS AND
WALL BUSHINGS.

This document may be subject to changes.
Contact ARTECHE to confirm the characteristics and
availability of the products described here.

Moving together

A series of approximately 15 white, wavy, horizontal lines that flow from the left side of the page towards the right, creating a sense of movement and rhythm. The lines vary in amplitude and frequency, giving them a fluid, organic appearance.

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1. INSTRUMENT TRANSFORMERS. LOW VOLTAGE

Current Transformers

Voltage Transformers



CURRENT TRANSFORMERS

>> WINDOW TYPE

Current transformers without primary winding intended to be used in low voltage bars or isolated cables.

RANGE

- › Primary nominal currents up to 10,000 A.
- › Secondary currents 1 and 5 A.
- › Frequencies 50 Hz and 60 Hz.

APPLICATIONS

- › Low voltage panels.
- › Motor control.
- › Primary distribution switchgear.
- › Secondary distribution switchgear.
- › Capacitor banks.
- › Power generation.
- › Dead tank circuit breaker.
- › Railway.

ADVANTAGES

- › Wide range of models with different window sizes available.
- › Multi-ratio transformer for different transformation ratios available.
- › Sealable cover for secondary terminals.
- › Stainless steel screws available.
- › Designs for outdoor service available.
- › Transformer can be assembled in any position.
- › Split core current transformers to install without handling the primary bars or cables.

>> SQUARE WINDOW TYPE

Current transformers for installation in low voltage panel bars where available space is critical.

RANGE

- › Primary nominal currents up to 3,000 A.
- › Secondary currents 1 and 5 A.
- › Frequencies 50 Hz and 60 Hz.

APPLICATIONS

- › Low voltage panels.

ADVANTAGES

- › Variety of models with different window sizes available.
- › Sealable cover for secondary terminals.

>> WITH PRIMARY BAR

Transformers for installation in low voltage measuring panels.

RANGE

- › Primary nominal currents up to 1,000 A.
- › Secondary currents 1 and 5 A.
- › Frequencies 50 Hz and 60 Hz.

APPLICATIONS

- › Low voltage panels.

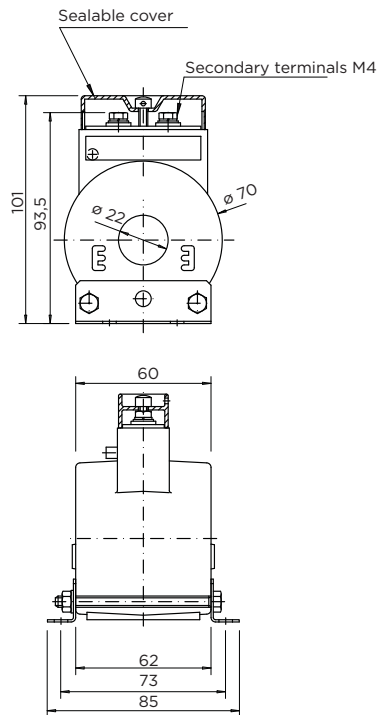
ADVANTAGES

- › Mechanism for fastening the transformer onto the bar.
- › Sealable cover for secondary terminals.
- › Connection for voltage tap.

IFG-5

CHARACTERISTICS

Primary current A	CL0,2 VA	CL0,5 VA	CL1 VA
50			
75			4
100			7,5
125			10
150			15
200		15	30
250		20	40
300		30	50
400		30	35
500	15	35	40
600	20	50	60



IFP-0

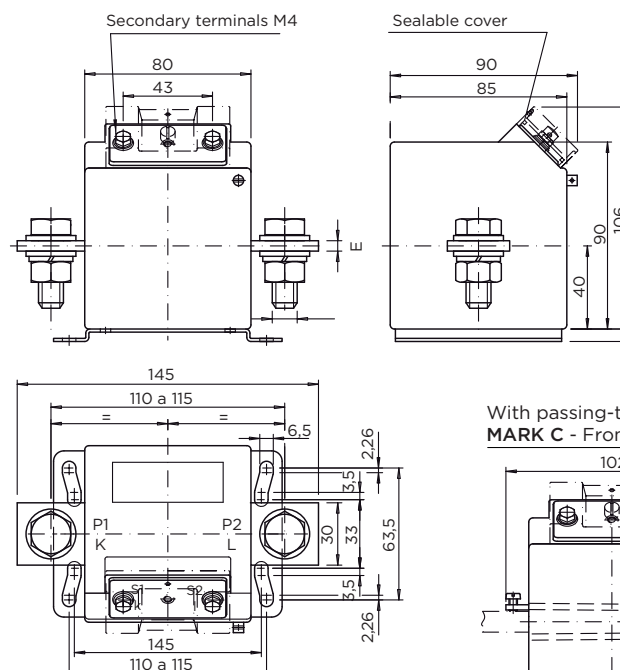
CHARACTERISTICS

Primary current A	Marks A and B	Mark C
5	10 and 15	CI 0.5 Fs5 VA
10		
20		
30		
40		
50		
75	10 and 15	
100		
150		
200		
300		
400		
500		
600		

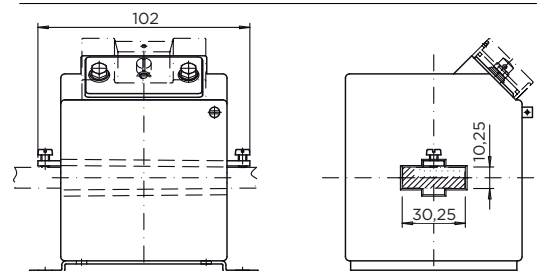
Thermal Current: 60xIn

DIMENSIONS

Mark	Current	E
A	Up to 300 A	5
B	From 200 to 600 A	10



With passing-through hole
MARK C - From 200 to 600 A

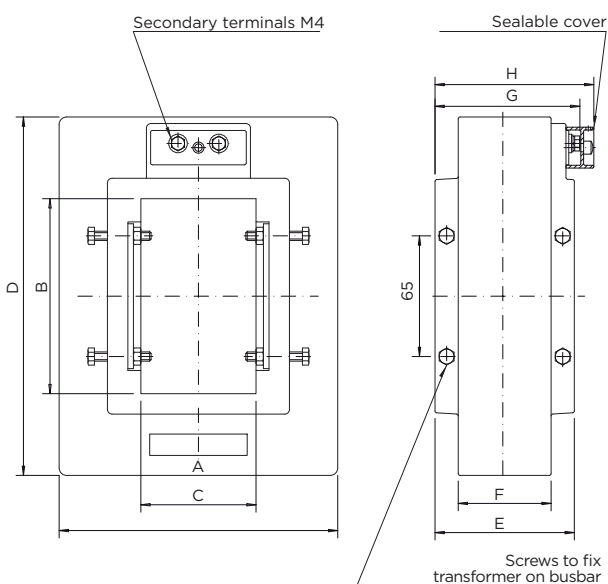


1. CURRENT TRANSFORMERS > Metering > Indoor

IFW-4 • IFW-5

CHARACTERISTICS

Type	Primary current A	CL0,5 VA	CL1 VA
IFW-4	3000	15	30
	3500		
	4000		
IFW-5	3500		
	4000		
	5000		



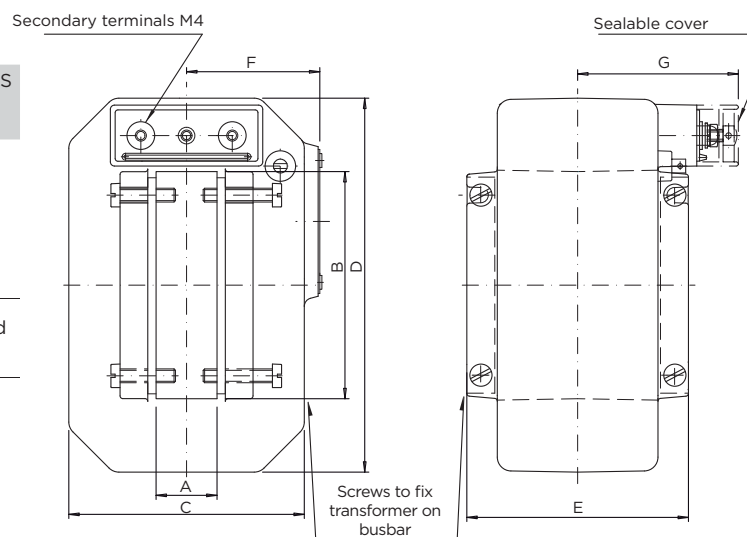
DIMENSIONS

Type	A	B	C	D	E	F	G	H
IFW-4	62	105	150	193	75	50	78	85,5
IFW-5	95	105	190	200	75	50	78	85,5

IFX

CHARACTERISTICS

Type	Primary current A	CL0,5 S FS 5 VA
IFX-0	400*	10
	500*	
	600*	
	750*	
	800*	10 and 15
	1000*	
	1200*	10
IFX-1	1250*	
	1500*	
	750*	
	800*	
	1000*	
IFX-2	1200*	10
	1500*	
	2000*	
IFX-2	2000*	10
	2500*	
	3000*	



*Extended current rating up: 150%
Thermal Current: 60xI_n

DIMENSIONS

Type	A	B	C	D	E	F	G
IFX-0	22	82	85	135	80	48	58
IFX-1	22	102	88	168	74,5	50	55
IFX-2	32	102	102	172	64	56	50

IFE

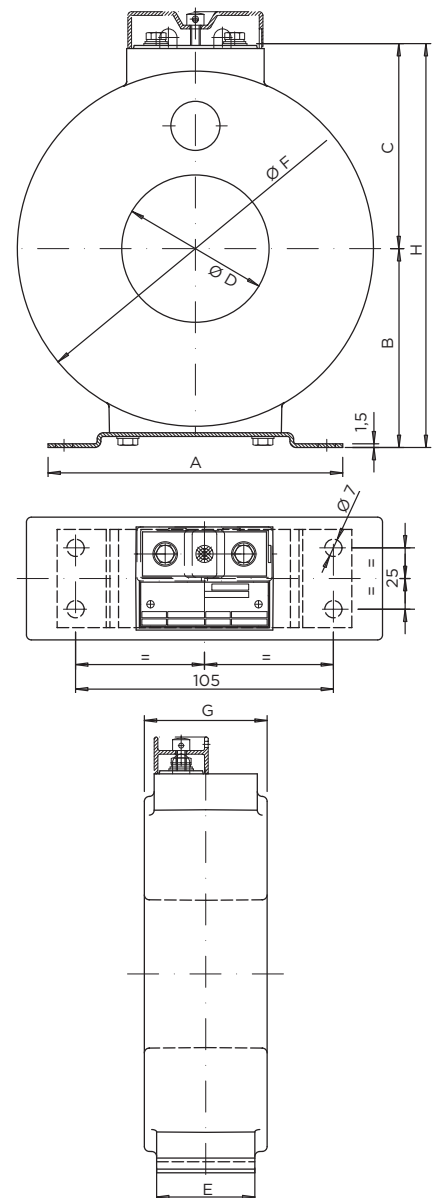
CHARACTERISTICS

SINGLE PRIMARY RATIO AND ONE SECONDARY

Type	Primary current A	Inner diameter Ø D= 60 mm		Inner diameter Ø D= 80 mm	
		Class and burden METERING	Class and burden PROTECTION	Class and burden METERING	Class and burden PROTECTION
IFE-1	200	5 VA CL1	2,5 VA 5P10		
	250	12,5 VA CL1	2,5 VA 5P10		
	300	5 VA CL0,5	2,5 VA 5P10		
	400	12,5 VA CL0,5	5 VA 5P10		
	500	5 VA CL0,2 25 VA CL0,5	5 VA 5P10 2,5 VA 5P15		
	600	10 VA CL0,2 50 VA CL0,5	5 VA 5P10 2,5 VA 5P20		
	800	20 VA CL0,2 80 VA CL0,5	7,5 VA 5P10 2,5 VA 5P15		
	1000	40 VA CL0,2 100 VA CL0,5	10 VA 5P10 2,5 VA 5P15		
	1200	70 VA CL0,2 120 VA CL0,5	10 VA 5P10 5 VA 5P15		
	150	35 VA CL3	2,5 VA 5P10	25 VA CL3	2,5 VA 5P10
IFE-3	200	2,5 VA CL0,5 10 VA CL1	5 VA 5P10 5 VA 5P10	5 VA CL1 30 VA CL3	2,5 VA 5P10 2,5 VA 5P15
	250	5 VA CL0,5 20 VA CL1	7,5 VA 5P10 2,5 VA 5P20	2,5 VA CL0,5 10 VA CL1	5 VA 5P10 2,5 VA 5P15
	300	7,5 VA CL0,5 35 VA CL1	7,5 VA 5P10 2,5 VA 5P20	5 VA CL0,5 20 VA CL1	5 VA 5P10 2,5 VA 5P20
	400	5 VA CL0,2 20 VA CL0,5	10 VA 5P10 5 VA 5P20	10 VA CL0,5 45 VA CL1	7,5 VA 5P10 2,5 VA 5P20
	500	10 VA CL0,2 40 VA CL0,5	15 VA 5P10 5 VA 5P20	5 VA CL0,2 25 VA CL0,5	10 VA 5P10 2,5 VA 5P20
	600	15 VA CL0,2 75 VA CL0,5	15 VA 5P10 7,5 VA 5P20	10 VA CL0,2 40 VA CL0,5	12,5 VA 5P10 5 VA 5P20
	800	40 VA CL0,2 175 VA CL0,5	20 VA 5P10 10 VA 5P20	20 VA CL0,2 100 VA CL0,5	15 VA 5P10 5 VA 5P20
	1000	75 VA CL0,2 200 VA CL0,5	30 VA 5P10 12,5 VA 5P20	45 VA CL0,2 150 VA CL0,5	20 VA 5P10 7,5 VA 5P20
	1200	100 VA CL0,2	30 VA 5P10 12,5 VA 5P20	70 VA CL0,2 175 VA CL0,5	25 VA 5P10 10 VA 5P20
	1500			125 VA CL0,2	25 VA 5P10 10 VA 5P20
	2000			200 VA CL0,2	35 VA 5P10 10 VA 5P20

DIMENSIONS

Type	Mark	A	B	C	D (±1,5)	E	F	G	H
IFE-1		120	81	83,5	60	40	145	50	164,5
IFE-3	A	120	103	106	60	35	190	55	209
	B				80				



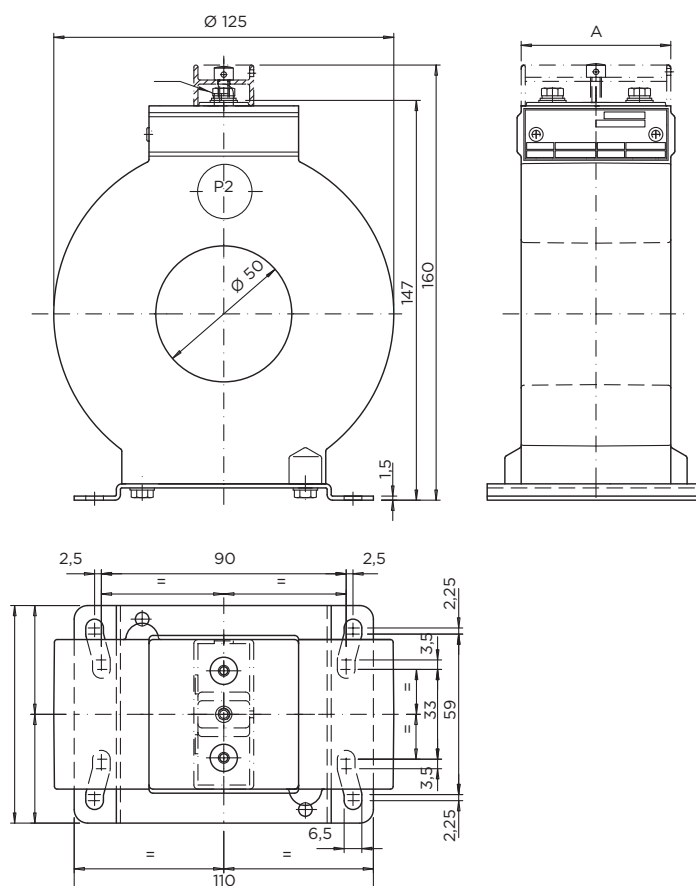
IFG-7 • IFG-8

CHARACTERISTICS			
SINGLE PRIMARY RATIO AND ONE SECONDARY			
Type	Primary current A	Class and burden METERING	Class and burden PROTECTION
IFG-7	200	2,5 VA CL0,5	2,5 VA 5P10
	250	5 VA CL0,5	2,5 VA 5P10
	300	7,5 VA CL0,5	2,5 VA 5P15
	400	2,5 VA CL0,2 20 VA CL0,5	5 VA 5P10 2,5 VA 5P15
	500	7,5 VA CL0,2 40 VA CL0,5	5 VA 5P10 2,5 VA 5P20
	600	15 VA CL0,2 60 VA CL0,5	7,5 VA 5P10 2,5 VA 5P20
	800	35 VA CL0,2 90 VA CL0,5	7,5 VA 5P10 2,5 VA 5P15
	1000	60 VA CL0,2 120 VA CL0,5	12,5 VA 5P10 2,5 VA 5P20
	100	25 VA CL3	2,5 VA 5P10
	150	7,5 VA CL1	2,5 VA 5P15
IFG-8	200	5 VA CL0,5	2,5 VA 5P10
	250	5 VA CL0,5 20 VA CL1	5 VA 5P10 2,5 VA 5P15
	300	2,5 VA CL0,2 15 VA CL0,5	10 VA 5P10 2,5 VA 5P20
	400	7,5 VA CL0,2 40 VA CL0,5	12,5 VA 5P10 5 VA 5P20
	500	15 VA CL0,2 75 VA CL0,5	15 VA 5P10 5 VA 5P20
	600	30 VA CL0,2 125 VA CL0,5	15 VA 5P10 7,5 VA 5P20
	800	70 VA CL0,2 180 VA CL0,5	20 VA 5P10 7,5 VA 5P20
	1000	125 VA CL0,2 240 VA CL0,5	30 VA 5P10 10 VA 5P20

DIMENSIONS	
Type	A
IFG-7	55
IFG-8	85



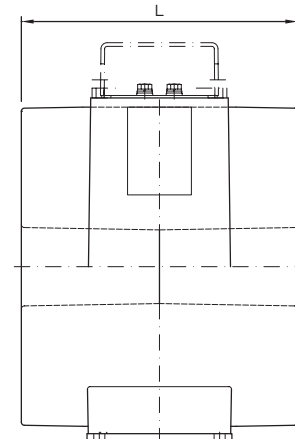
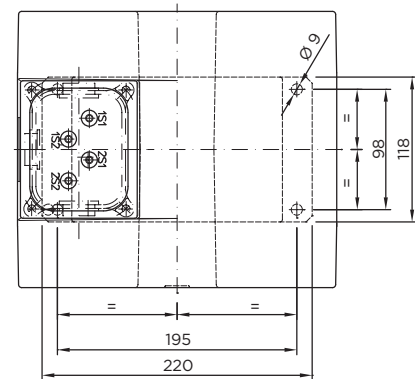
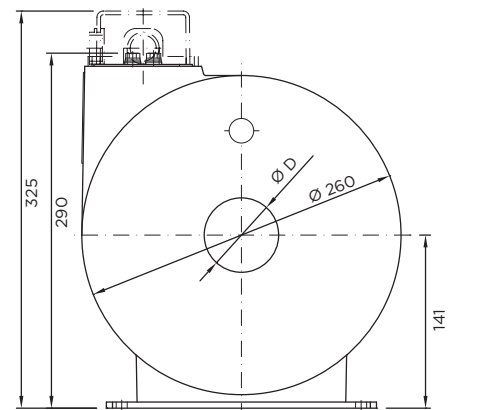
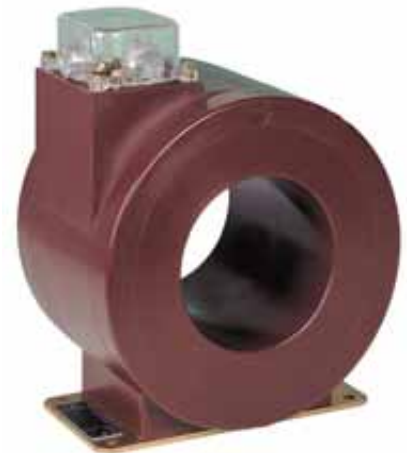
> IFG-7



IFH-6

DIMENSIONS & CHARACTERISTICS

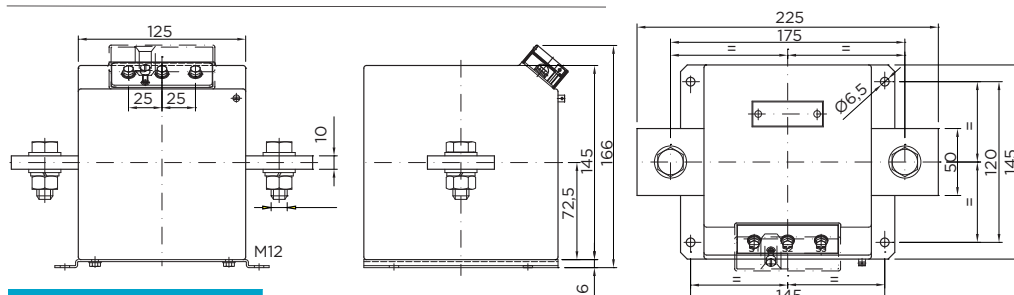
D	L	Mark	Primary current A	METERING	PROTECTION	METERING + PROTECTION
130	I		100	5 VA CL1	5 VA 5P20	
			200	10 VA CL0,5	12,5 VA 5P20	5 VA CL1 + 7,5 VA 5P20
			400	15 VA CL0,2	25 VA 5P20	10 VA CL0,5 + 15 VA 5P20
			600	15 VA CL0,2S	40 VA 5P20	15 VA CL0,2 + 15 VA 5P20
			1000	70 VA CL0,2S	70 VA 5P20	15 VA CL0,2S + 30 VA 5P20
60	180	B	100		7,5 VA 5P20	5 VA CL3 + 5 VA 5P20
			200		20 VA 5P20	5 VA CL1 + 15 VA 5P20
			400		40 VA 5P20	15 VA CL0,5 + 25 VA 5P20
			600		60 VA 5P20	15 VA CL0,2S + 35 VA 5P20
			1000		100 VA 5P20	15 VA CL0,2S + 60 VA 5P20
225	E		100		10 VA 5P20	5 VA CL3 + 7,5 VA 5P20
			200		25 VA 5P20	10 VA CL1 + 20 VA 5P20
			400		55 VA 5P20	20 VA CL0,5 + 40 VA 5P20
			600		85 VA 5P20	15 VA CL0,2 + 60 VA 5P20
			1000		140 VA 5P20	15 VA CL0,2S + 90 VA 5P20
130	J		100	15 VA CL3	5 VA 5P20	
			200	5 VA CL0,5	12,5 VA 5P20	2,5 VA CL0,5 + 5 VA 5P20
			400	10 VA CL0,2	25 VA 5P20	12,5 VA CL0,5 + 12,5 VA 5P20
			600	35 VA CL0,2	40 VA 5P20	15 VA CL0,2 + 15 VA 5P20
			1000	40 VA CL0,2S	70 VA 5P20	15 VA CL0,2S + 20 VA 5P20
80	180	C	2000	300 VA CL0,2S	135 VA 5P20	15 VA CL0,2S + 65 VA 5P20
			100		7,5 VA 5P20	
			200		20 VA 5P20	2,5 VA CL0,5 + 12,5 VA 5P20
			400		40 VA 5P20	12,5 VA CL0,5 + 25 VA 5P20
			600		65 VA 5P20	15 VA CL0,2 + 35 VA 5P20
225	F		1000		100 VA 5P20	15 VA CL0,2S + 60 VA 5P20
			2000		200 VA 5P20	
			100		10 VA 5P20	
			200		25 VA 5P20	10 VA CL1 + 20 VA 5P20
			400		55 VA 5P20	20 VA CL0,5 + 40 VA 5P20
110	130	L	600		85 VA 5P20	12,5 VA CL0,2 + 60 VA 5P20
			1000		140 VA 5P20	15 VA CL0,2S + 90 VA 5P20
			100	15 VA CL3	5 VA 5P20	
			200	5 VA CL0,5	12,5 VA 5P20	2,5 VA CL0,5 + 5 VA 5P20
			400	7,5 VA CL0,2	25 VA 5P20	12,5 VA CL0,5 + 12,5 VA 5P20
130	A		600	35 VA CL0,2	40 VA 5P20	15 VA CL0,2 + 15 VA 5P20
			1000	40 VA CL0,2S	70 VA 5P20	15 VA CL0,2S + 20 VA 5P20
			200	15 VA CL1	10 VA 5P20	5 VA CL1 + 5 VA 5P20
			400	30 VA CL0,5	20 VA 5P20	5 VA CL0,5 + 10 VA 5P20
			600	20 VA CL0,2	30 VA 5P20	7,5 VA CL0,2 + 15 VA 5P20
130	180	D	1000	25 VA CL0,2S	50 VA 5P20	20 VA CL0,2 + 25 VA 5P20
			1500	85 VA CL0,2S	75 VA 5P20	20 VA CL0,2 S + 25 VA 5P20
			2000	200 VA CL0,2S	100 VA 5P20	25 VA CL0,2S + 50 VA 5P20
			200		15 VA 5P20	7,5 VA CL1 + 7,5 VA 5P20
			400		30 VA 5P20	15 VA CL0,5 + 15 VA 5P20
225	G		600		45 VA 5P20	10 VA CL0,2 + 25 VA 5P20
			1000		80 VA 5P20	10 VA CL0,2 S + 45 VA 5P20
			200		20 VA 5P20	7,5 VA CL1 + 12,5 VA 5P20
			400		45 VA 5P20	15 VA CL0,5 + 25 VA 5P20
			600		65 VA 5P20	7,5 VA CL0,2 + 45 VA 5P20
160	225	K	1000		115 VA 5P20	7,5 VA CL0,2 S + 70 VA 5P20
			200	7,5 VA CL1	10 VA 5P20	
			400	15 VA CL0,5	20 VA 5P20	7,5 VA CL0,5 + 10 VA 5P20
			600	12,5 VA CL0,2	25 VA 5P20	20 VA CL0,5 + 15 VA 5P20
			1000	10 VA CL0,2S	50 VA 5P20	25 VA CL0,2 + 25 VA 5P20
205	180	H	1500	50 VA CL0,2S	55 VA 5P20	15 VA CL0,2 S + 40 VA 5P20
			1000	15 VA CL0,5	15 VA 5P10	10 VA CL0,5 + 10 VA 5P10
			1200	20 VA CL0,5	20 VA 5P10	15 VA CL0,5 + 15 VA 5P10
			1600	25 VA CL0,5	25 VA 5P10	10 VA CL0,5 + 10 VA 5P10
			100		10 VA 5P20	5 VA CL3 + 7,5 VA 5P20
70	225	M	200		25 VA 5P20	10 VA CL1 + 20 VA 5P20
			400		55 VA 5P20	20 VA CL0,5 + 40 VA 5P20
			600		85 VA 5P20	15 VA CL0,2 + 60 VA 5P20
			1000		140 VA 5P20	15 VA CL0,2S + 90 VA 5P20



1. CURRENT TRANSFORMERS > Metering and protection > Indoor

IFP-1

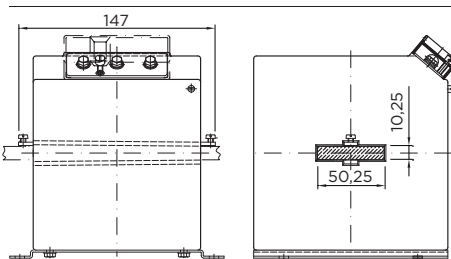
MARK A - Up to 1.000 A



CHARACTERISTICS

Mark	Primary current A	CL0,2 VA	SP10 VA
A	5 to 250	30	20
	300	15	15
	400		20
	600		30
	800	30	35
	900		40
B	1.000		45
	300	15	15
	400		20
	500		25
	600	30	30
	800		35
	900		40
	1.000		45

With passing - Through hole
MARK B - From 250 to 1000 A



Thermal Current: 60xIn

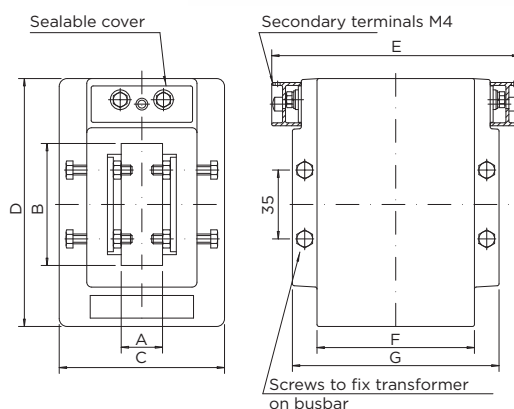
IFW-O/DS • IFW-4/DS

CHARACTERISTICS

Type	Ratio (A)	Burden VA PROTECTION	Ratio (A)	Class and burden METERING + PROTECTION
IFW-O/DS	250/5	7,5 VA 10P5		
	300/5	10 VA 10P5		
	350/5	12,5 VA 10P5		
	400/5	15 VA 10P5 or 5 VA 5P10		
	500/5	15 VA 10P5 or 7,5 VA 5P10	500/5-5	10 VA CL1 + 5 VA 5P10 5 VA 10P10
	600/5	20 VA 10P5 or 10 VA 5P10	600/5-5	10 VA CL1 + 7,5 VA 5P10 7,5 VA 10P10
	1000/5	30 VA 10P5 or 15 VA 5P10	1000/5-5	15 VA CL0,5 + 10 VA 5P10 10 VA 10P10
	1250/5	30 VA 10P5 or 15 VA 5P10	1250/5-5	15 VA CL0,5 + 10 VA 5P10 12,5 VA 10P10
IFW-4/DS	1500/5	40 VA 10P5 or 20 VA 5P10	1500/5-5	15 VA CL0,5 + 15 VA 5P10 15 VA 10P10
	2000/5	45 VA 10P5 20 VA 5P10	2000/5-5	15 VA CL0,5 + 15 VA 5P10 20 VA 10P10
	2500/5	40 VA 10P5 30 VA 5P10	2500/5-5	15 VA CL0,5 + 20 VA 5P10 25 VA 10P10
	3000/5	40 VA 10P5 30 VA 5P10	3000/5-5	15 VA CL0,5 + 25 VA 5P10 30 VA 10P10
	3500/5	40 VA 10P5 30 VA 5P10	3500/5-5	15 VA CL0,5 + 25 VA 5P10 30 VA 10P10
	4000/5	45 VA 10P5 40 VA 5P10	4000/5-5	15 VA CL0,5 + 30 VA 5P10 35 VA 10P10

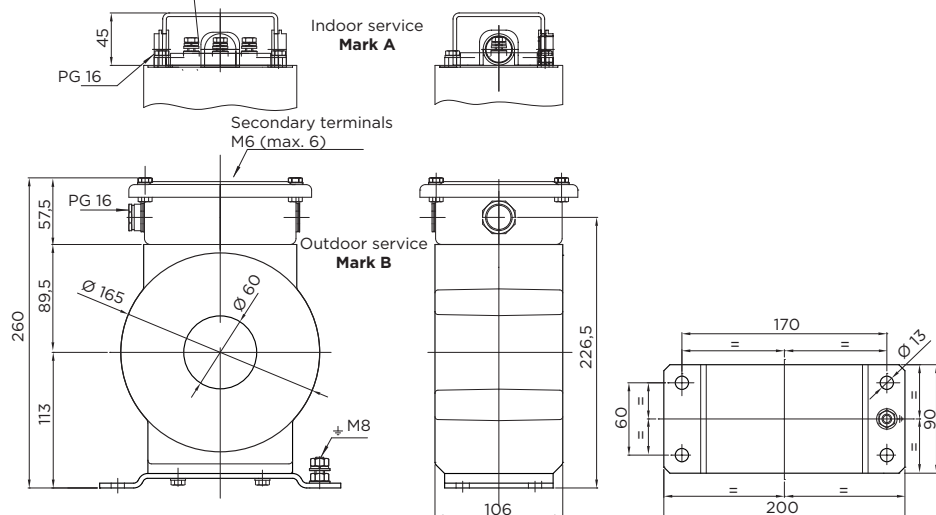
DIMENSIONS

Type	A	B	C	D	E	F	G
IFW-O/DS	20	62	84	126	126	80	105
IFW-4/DS	62	105	150	193	136	90	115



IFH-O

Secondary terminals M6 (max. 6)

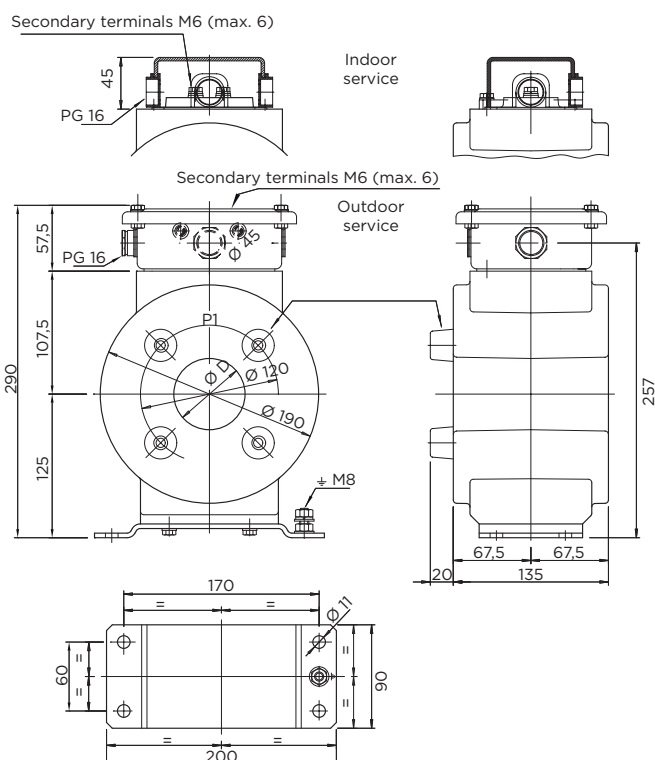


CHARACTERISTICS

Primary current A	ONE SECONDARY		TWO SECONDARIES
	METERING	PROTECTION	METERING + PROTECTION
100		5 VA 5P10	
150	10 VA CL1	10 VA 5P10	
200	25 VA CL1	10 VA 5P10	5 VA CL1 + 10 VA 5P5
250	25 VA CL1	15 VA 5P10	15 VA CL1 + 5 VA 5P10
300	20 VA CL0,5	15 VA 5P10	20 VA CL1 + 5 VA 5P10
400	40 VA CL0,5	20 VA 5P10	15 VA CL0,5 + 10 VA 5P10
500	50 VA CL0,5	30 VA 5P10	15 VA CL0,5 + 15 VA 5P10
600	50 VA CL0,5	15 VA 5P20	20 VA CL0,5 + 20 VA 5P10
750	65 VA CL0,5	20 VA 5P20	30 VA CL0,5 + 25 VA 5P10
800			40 VA CL0,5 + 30 VA 5P10
1000	30 VA CL0,2	25 VA 5P20	50 VA CL0,5 + 35 VA 5P10
1200	30 VA CL0,2	30 VA 5P20	50 VA CL0,5 + 45 VA 5P10



IFH-1



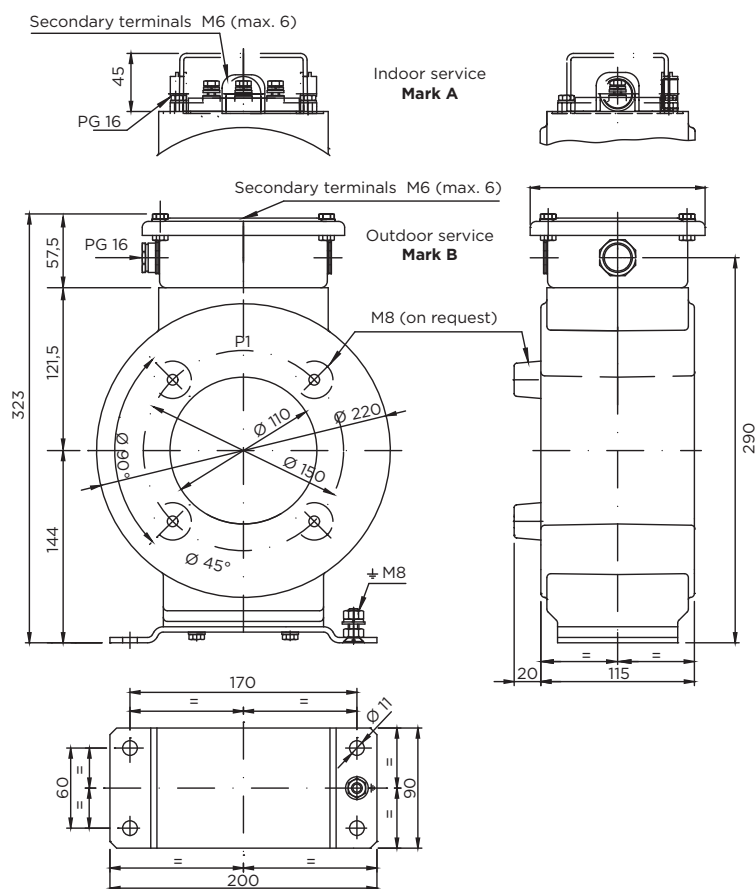
CHARACTERISTICS

Primary current A	INNER DIAMETER (ØD= 60 mm)			INNER DIAMETER (ØD= 80 mm)		
	ONE SECONDARY		TWO SECONDARIES	ONE SECONDARY		TWO SECONDARIES
	METERING	PROTECTION	METERING + PROTECTION	METERING	PROTECTION	METERING + PROTECTION
75	15 VA CL3	7,5 VA 10P10		10 VA CL3	10 VA 10P5	
100	50 VA CL3	12,5 VA 5P10		40 VA CL3	7,5 VA 10P10	
150	20 VA CL1	15 VA 5P10	30 VA CL3 + 10 VA 5P10	10 VA CL1	12,5 VA 5P10	20 VA CL3 + 5 VA 5P10
200	10 VA CL0,5	20 VA 5P10	10 VA CL1 + 12,5 VA 5P10	25 VA CL1	7,5 VA 5P20	5 VA CL1 + 7,5 VA 5P10
250	20 VA CL0,5	25 VA 5P10	20 VA CL1 + 15 VA 5P10	12,5 VA CL0,5	10 VA 5P20	10 VA CL1 + 10 VA 5P10
300	40 VA CL0,5	15 VA 5P20	10 VA CL0,5 + 20 VA 5P10	20 VA CL0,5	12,5 VA 5P20	15 VA CL1 + 12,5 VA 5P10
400	90 VA CL0,5	25 VA 5P20	10 VA CL0,5 + 15 VA 5P20	50 VA CL0,5	15 VA 5P20	10 VA CL0,5 + 15 VA 5P10
500	50 VA CL0,2	30 VA 5P20	20 VA CL0,5 + 25 VA 5P20	25 VA CL0,2	20 VA 5P20	12,5 VA CL0,5 + 5 VA 5P20
600	75 VA CL0,2	35 VA 5P20	30 VA CL0,5 + 25 VA 5P20	40 VA CL0,2	20 VA 5P20	20 VA CL0,5 + 15 VA 5P20
800	100 VA CL0,2	50 VA 5P20	15 VA CL0,2 + 35 VA 5P20	100 VA CL0,2	30 VA 5P20	40 VA CL0,5 + 20 VA 5P20
1000	100 VA CL0,2	60 VA 5P20	30 VA CL0,2 + 45 VA 5P20	100 VA CL0,2	35 VA 5P20	20 VA CL0,2 + 25 VA 5P20
1200	100 VA CL0,2	60 VA 5P20	50 VA CL0,2 + 50 VA 5P20	100 VA CL0,2	45 VA 5P20	30 VA CL0,2 + 30 VA 5P20
1500				100 VA CL0,2	50 VA 5P20	50 VA CL0,2 + 40 VA 5P20
2000				100 VA CL0,2	75 VA 5P20	100 VA CL0,2 + 40 VA 5P20

DIMENSIONS

Mark	Ø D (±1,5)	Service
A	60	Outdoor
B	80	
C	60	Indoor
D	80	

IFH-3

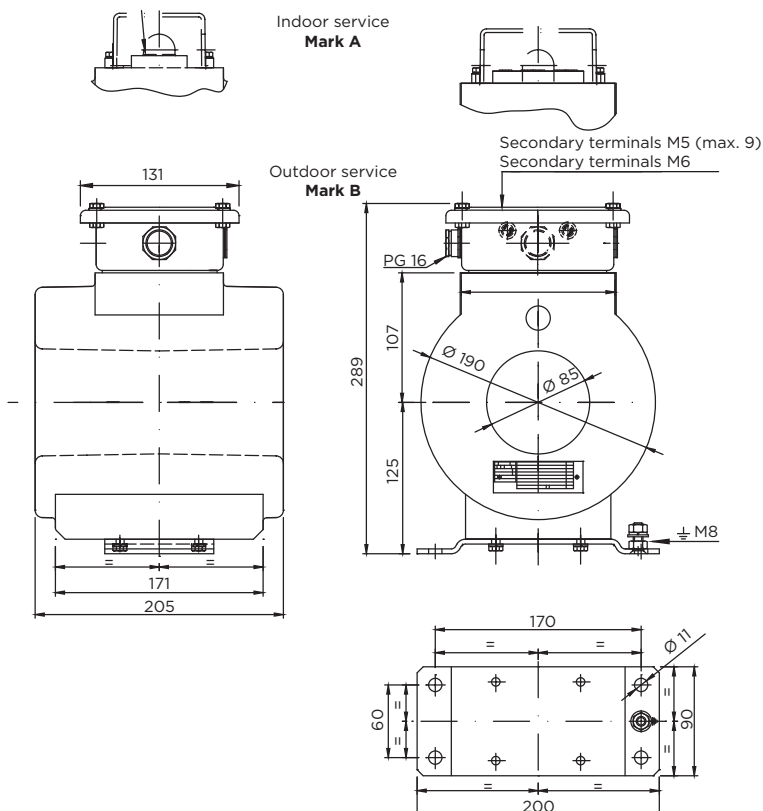


CHARACTERISTICS

Primary current A	ONE SECONDARY		TWO SECONDARIES
	METERING	PROTECTION	METERING + PROTECTION
150	5 VA CL1	5 VA 5P20	
200	15 VA CL1	5 VA 5P20	
250	5 VA CL0,5	10 VA 5P20	
300	12,5 VA CL0,5	10 VA 5P20	5 VA CL1 + 5 VA 5P20
350	20 VA CL0,5	12,5 VA 5P20	5 VA CL0,5 + 5 VA 5P20
400	20 VA CL0,5	15 VA 5P20	5 VA CL0,5 + 7,5 VA 5P20
500	25 VA CL0,5	20 VA 5P20	10 VA CL0,5 + 10 VA 5P20
600	50 VA CL0,5	20 VA 5P20	12,5 VA CL0,5 + 12,5 VA 5P20
1000	50 VA CL0,5	20 VA 5P20	
1500	50 VA CL0,5	20 VA 5P20	30 VA CL0,5 + 30 VA 5P20
2000	50 VA CL0,5	20 VA 5P20	
3000	50 VA CL0,5	20 VA 5P20	30 VA CL0,5 + 30 VA 5P20

IFH-4

Secondary terminals M5 (max. 9)
Secondary terminals M6

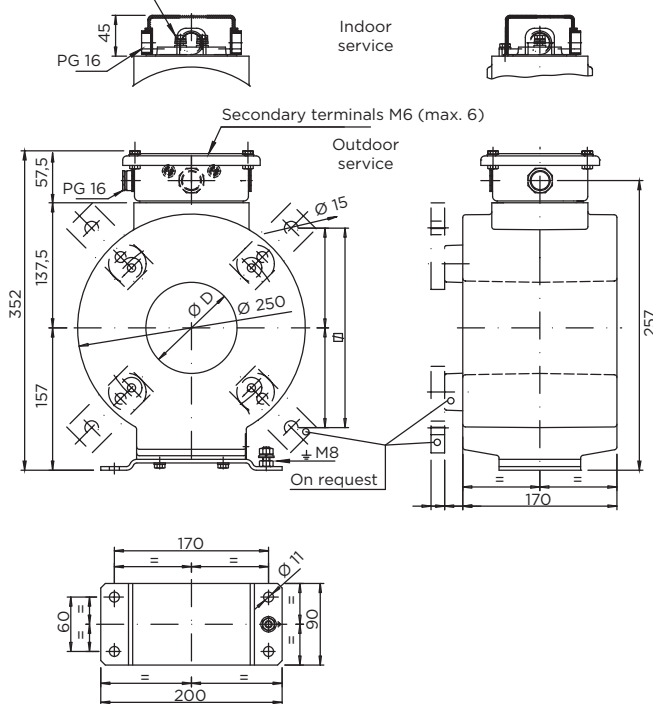


CHARACTERISTICS

Primary current A	ONE SECONDARY		TWO SECONDARIES
	METERING	PROTECTION	METERING + PROTECTION
100	5 VA CL1	5 VA 5P20	
150	15 VA CL1	10 VA 5P20	5 VA CL1 + 5 VA 5P20
200	7,5 VA CL0,5	12,5 VA 5P20	15 VA CL1 + 7,5 VA 5P20
300	30 VA CL0,5	20 VA 5P20	15 VA CL0,5 + 10 VA 5P20
400	15 VA CL0,2	25 VA 5P20	7,5 VA CL0,2 + 10 VA 5P20
500	30 VA CL0,2	30 VA 5P20	15 VA CL0,2 + 15 VA 5P20
700	20 VA CL0,2	45 VA 5P20	10 VA CL0,2S + 20 VA 5P20
1000	60 VA CL0,2	65 VA 5P20	25 VA CL0,2S + 25 VA 5P20
2000	400 VA CL0,2	100 VA 5P20	100 VA CL0,2S + 50 VA 5P20

IFH-5

Secondary terminals M6 (max. 6)



> IFH-5

Side mounting on request
installation horizontal or vertical

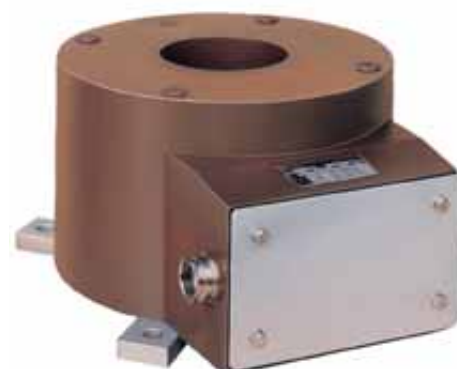
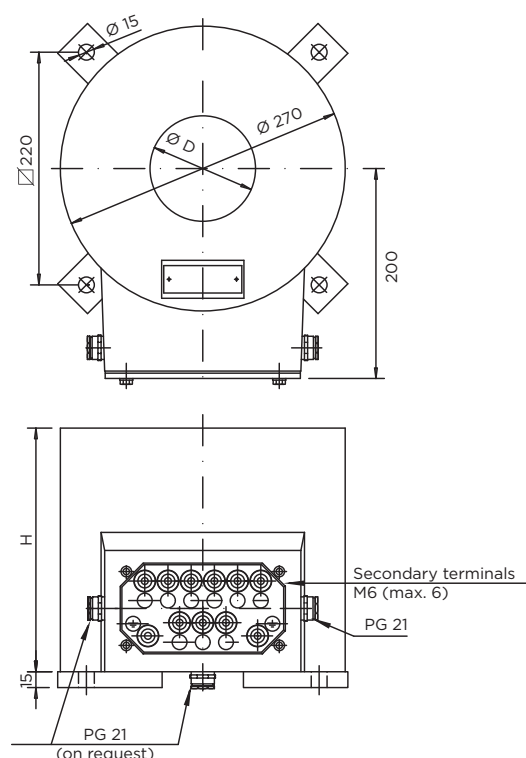
CHARACTERISTICS

	ONE SECONDARY			TWO SECONDARIES	
	Inner diameter ($\varnothing D = 100$ mm)	Inner diameter ($\varnothing D = 130$ mm)	Inner diameter ($\varnothing D = 145$ mm)	Inner diameter ($\varnothing D = 100$ mm)	Inner diameter ($\varnothing D = 130$ mm)
Primary current A	PROTECTION			METERING + PROTECTION	
200	20 VA 5P20	12,5 VA 5P20	5 VA 5P20	10 VA CL3 + 1 + 10 VA 5P20	7,5 VA CL1 + 7,5 VA 5P20
250	25 VA 5P20	15 VA 5P20	7,5 VA 5P20	15 VA CL1 + 15 VA 5P20	15 VA CL1 + 10 VA 5P20
300	30 VA 10P20	20 VA 5P20	10 VA 5P20	10 VA CL0,5 + 15 VA 5P20	5 VA CL0,5 + 10 VA 5P20
500	45 VA 10P20	30 VA 5P20	15 VA 5P20	25 VA CL0,5 + 25 VA 5P20	20 VA CL0,5 + 20 VA 5P20
750	50 VA 10P20	50 VA 5P20	25 VA 5P20	30 VA CL0,5 + 30 VA 5P20	25 VA CL0,5 + 30 VA 5P20
1000	50 VA 10P20	50 VA 5P20	30 VA 5P20	30 VA CL0,5 + 40 VA 5P20	30 VA CL0,5 + 40 VA 5P20
2000	50 VA 10P20	50 VA 5P20	50 VA 5P20	30 VA CL0,5 + 40 VA 5P20	30 VA CL0,5 + 40 VA 5P20
3000	50 VA 10P20	50 VA 5P20	50 VA 5P20	30 VA CL0,5 + 40 VA 5P20	30 VA CL0,5 + 40 VA 5P20
6000			45 VA 5P20		

DIMENSIONS

Mark	D ($\pm 1,5$)	Service
A	100	Outdoor
B	130	
C	100	
D	130	Indoor
E	145	Outdoor
F	145	Indoor

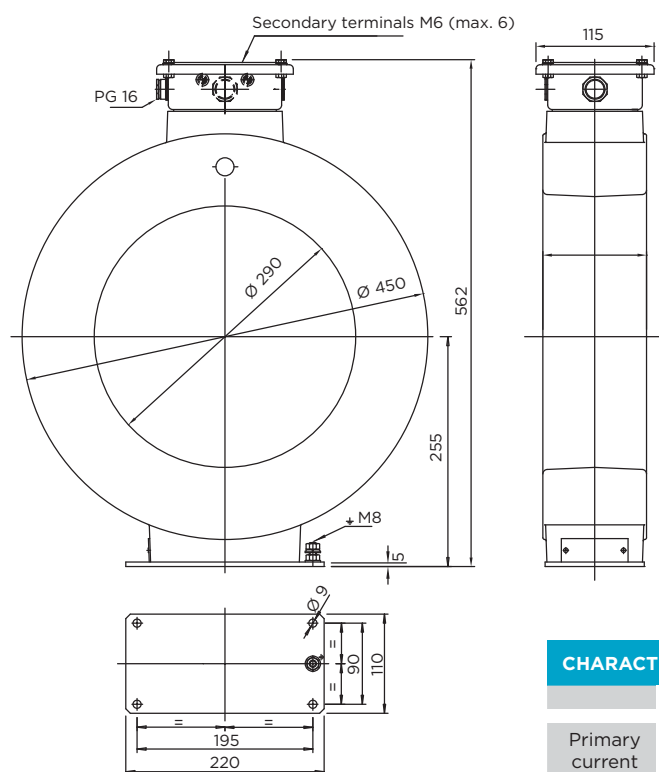
IFH-7



CHARACTERISTICS			
Mark	Primary current A	PROTECTION	PROTECTION
1	100	15 VA 5P10	7,5 VA 5P20
	200	30 VA 5P10	15 VA 5P20
	300	50 VA 5P10	20 VA 5P20
	400	60 VA 5P10	30 VA 5P20
	500	75 VA 5P10	40 VA 5P20
	50	7,5 VA 5P10	2,5 VA 5P20
2	75	15 VA 5P10	5 VA 5P20
	100	25 VA 5P10	10 VA 5P20
	150	40 VA 5P10	15 VA 5P20
	250	60 VA 5P10	30 VA 5P20
	300	70 VA 5P10	35 VA 5P20
	600	100 VA 5P10	60 VA 5P20
3	1000	100 VA 5P10	100 VA 5P20
	50	10 VA 5P10	5 VA 5P20
	100	30 VA 5P10	15 VA 5P20
	200	60 VA 5P10	30 VA 5P20
	300	100 VA 5P10	50 VA 5P20
	50	15 VA 5P10	7,5 VA 5P20
4	100	40 VA 5P10	20 VA 5P20
	150	60 VA 5P10	30 VA 5P20

DIMENSIONS			
Mark	H	D	Weight (kg)
1	166	100	40
2	231		55
3	296		75
4	361		90

IFH-10

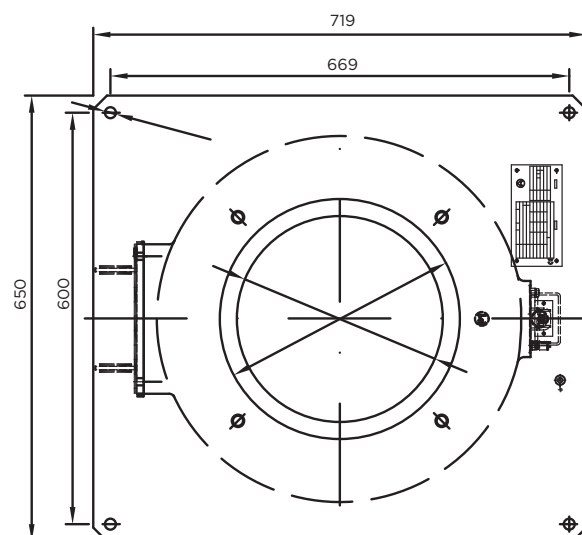
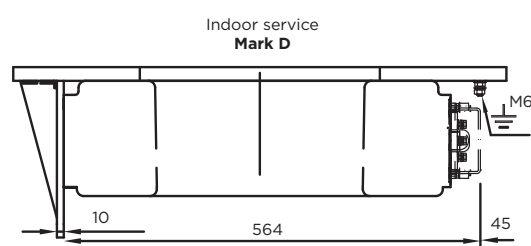
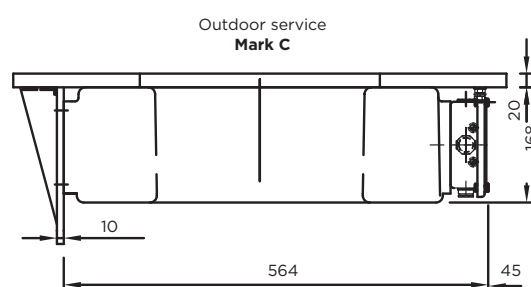
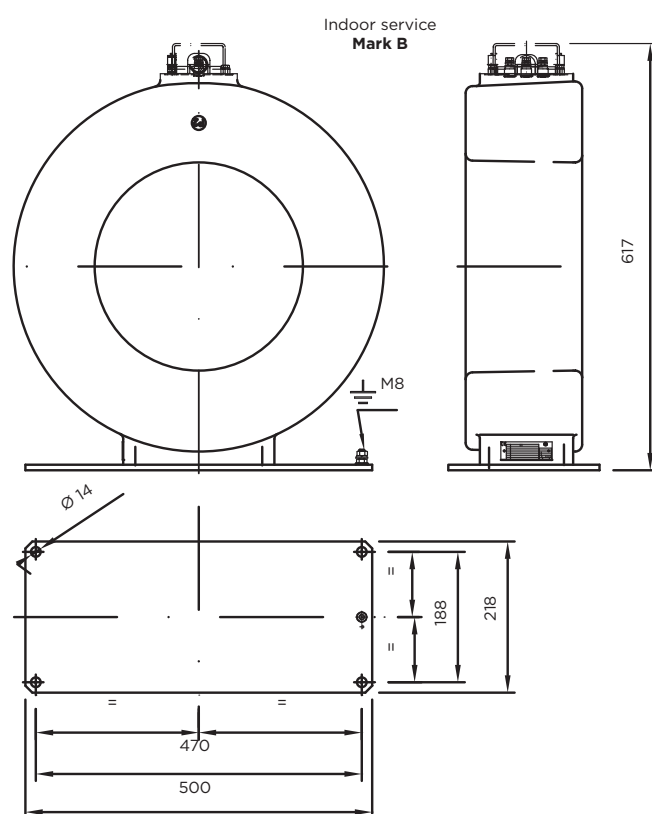
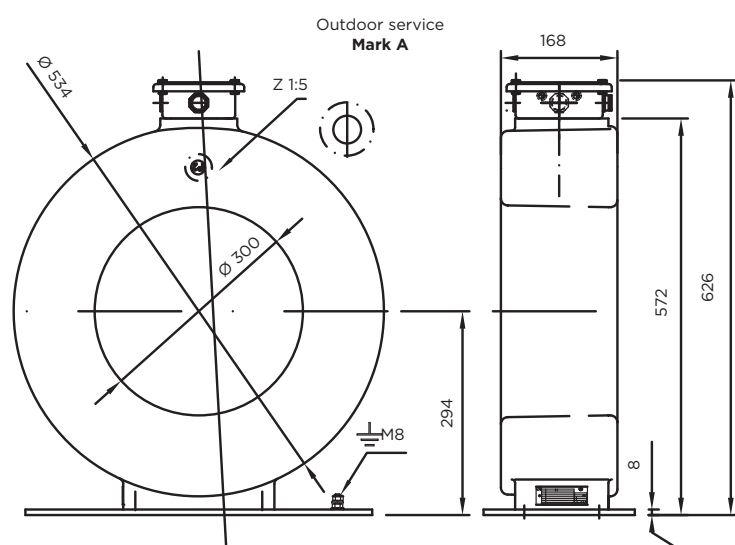


CHARACTERISTICS

	ONE SECONDARY		TWO SECONDARIES
Primary current A	METERING	PROTECTION	METERING + PROTECTION
4000			
5000			
6000	30 VA CL0,5	30 VA 5P20	30 VA CL0,5 + 30 VA 5P20
8000			
10000			



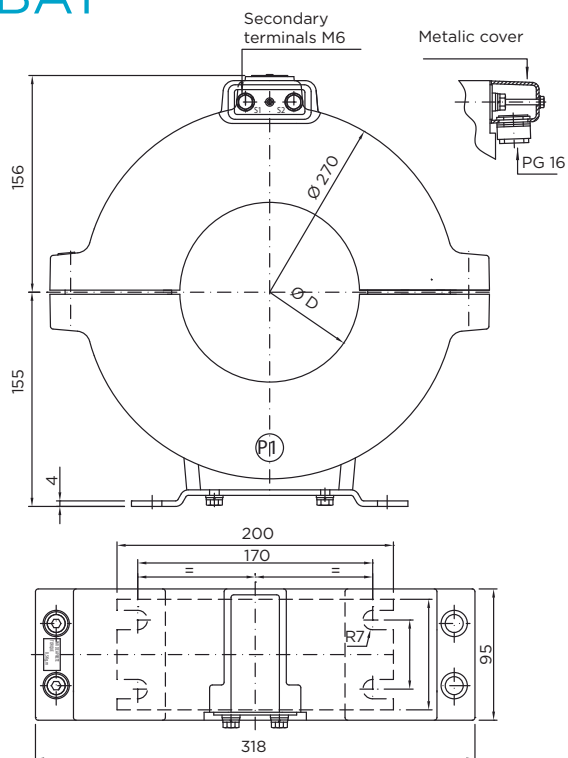
IFH-12



CHARACTERISTICS

	ONE SECONDARY		TWO SECONDARIES
Primary current A	METERING	PROTECTION	METERING + PROTECTION
4000			
5000			
6000	50 VA CL0,5	50 VA 5P20	50 VA CL0,5 + 50 VA 5P20
8000			
10000			

BAT



DIMENSIONS

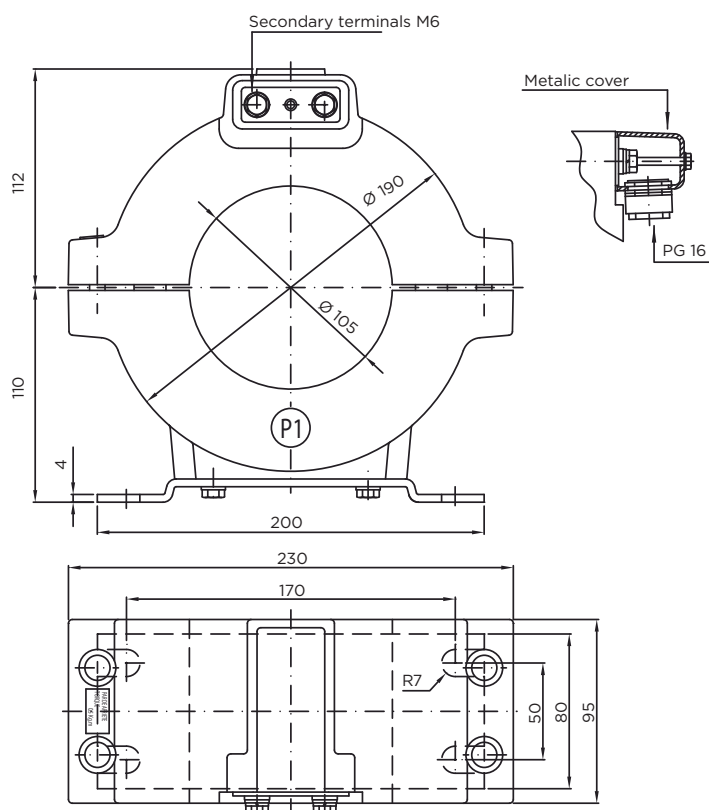
Mark	D
A	130
B	180



CHARACTERISTICS

	Mark A		Mark B	
Primary current A	METERING	PROTECTION	METERING	PROTECTION
200		5 VA 10P10		2,5 VA 10P10
300	2,5 VA CL1	12,5 VA 10P10		2 VA 10P20
400	5 VA CL1	5 VA 5P20	2 VA CL1	2 VA 5P20
600	5 VA CL0,5	15 VA 5P20	5 VA CL1	5 VA 5P20
800	7,5 VA CL0,5	25 VA 5P20	2,5 VA CL0,5	7 VA 5P20
1000	15 VA CL0,5	30 VA 5P20	5 VA CL0,5	7,5 VA 5P20
1200	25 VA CL0,5	35 VA 5P20	7,5 VA CL0,5	10 VA 5P20
1500	45 VA CL0,5	45 VA 5P20	12,5 VA CL0,5	12,5 VA 5P20
1800	75 VA CL0,5	55 VA 5P20	25 VA CL0,5	15 VA 5P20
2000	100 VA CL0,5	65 VA 5P20	50 VA CL0,5	15 VA 5P20

BAR

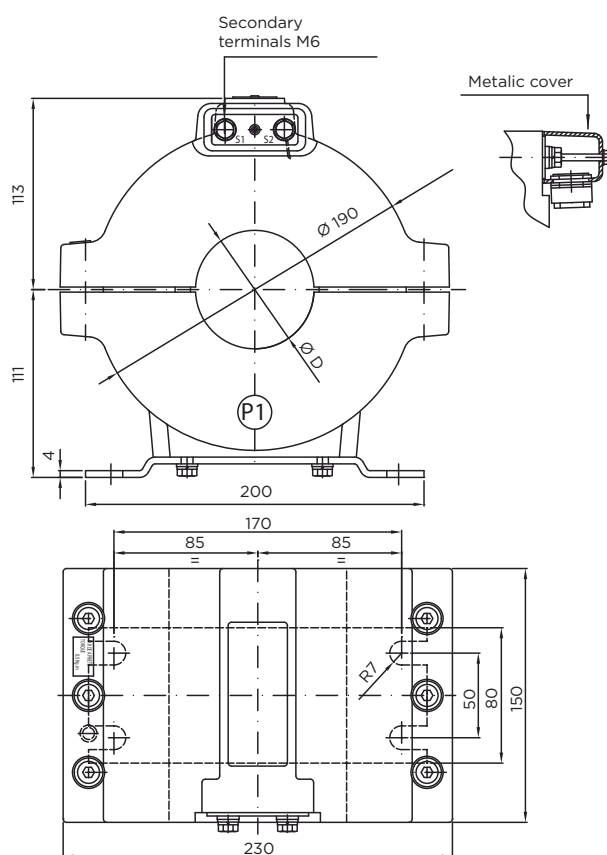


CHARACTERISTICS

Primary current A	METERING	PROTECTION
200		4 VA 10P10
300		2 VA 10P20
400	2 VA CL1	2 VA 5P20
500	5 VA CL1	4 VA 5P20
600	7,5 VA CL1	5 VA 5P20
800	3 VA CL0,5	7 VA 5P20
1000	7,5 VA CL0,5	7,5 VA 5P20

1. CURRENT TRANSFORMERS > Protection. Split-core > Indoor / Outdoor

BAS



DIMENSIONS

Mark	D
A	70
B	105

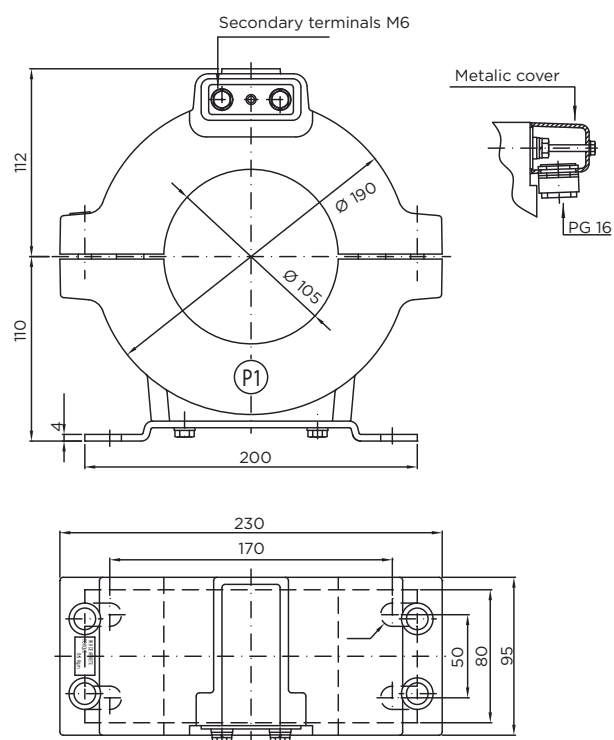


CHARACTERISTICS

Primary current A	Mark A		Mark B	
	METERING	PROTECTION	METERING	PROTECTION
150		5 VA 10P10		
200		7,5 VA 10P20		3 VA 10P20
300	10 VA CL1	12,5 VA 10P20		5 VA 10P20
400	5 VA CL0,5	15 VA 5P20	4 VA CL1	7,5 VA 5P20
500	12,5 VA CL0,5	20 VA 5P20	12,5 VA CL1	8 VA 5P20
600	20 VA CL0,5	30 VA 5P20	15 VA CL1	10 VA 5P20
800			7,5 VA CL0,5	12,5 VA 5P20
1000			25 VA CL0,5	15 VA 5P20



BAR



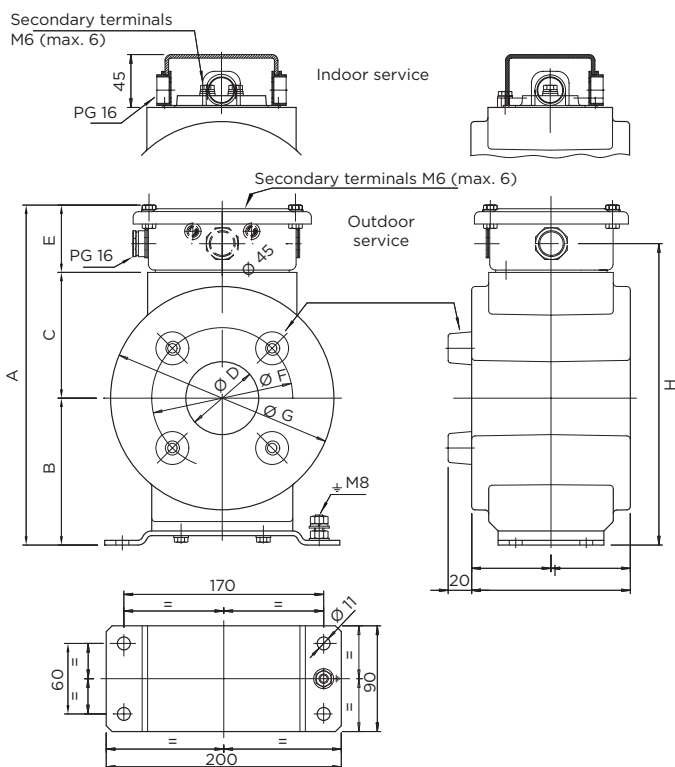
CHARACTERISTICS

Ratio A	Characteristics
20/1	Burden: 0,1 Oh. Error: at 0,05 In $\pm 15\%$ at In $\pm 10\%$ at 10 In $\pm 15\%$
20/1	Burden: 0,3 Oh. Error: at 0,05 In $\pm 15\%$ at In $\pm 10\%$ at 5 In $\pm 15\%$
30/1	Burden: 0,1 Oh. Error: at 0,05 In $\pm 15\%$ at In $\pm 10\%$ at 10 In $\pm 15\%$
30/1	Burden: 0,3 Oh. Error: at 0,05 In $\pm 15\%$ at In $\pm 10\%$ at 5 In $\pm 15\%$
50/1	Burden: 0,2 Oh. Error: at 0,05 In $\pm 15\%$ at In $\pm 10\%$ at 5 In $\pm 15\%$
50/1	Burden: 0,1 and 1,5 Oh. Error: at 0,05 In $\pm 15\%$ at In $\pm 10\%$ at 10 In $\pm 15\%$

Customized solutions for
any requirement.

1. CURRENT TRANSFORMERS > Homopolar > Indoor / Outdoor

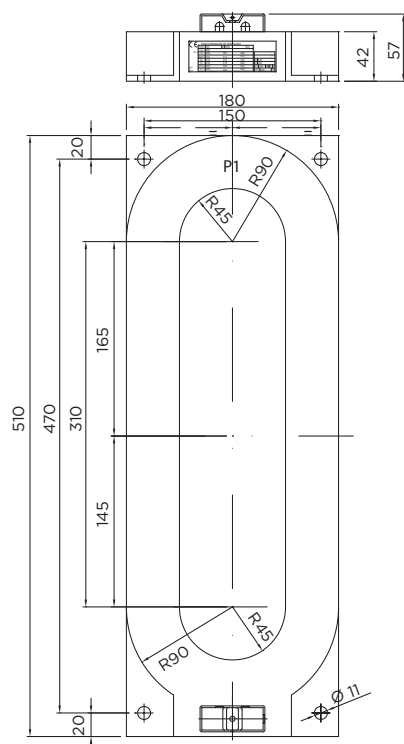
IFH-3



CHARACTERISTICS

Ratio A	Characteristics
10/1	Burden: 0,1 Oh. Error: at 0,05 In $\pm 15\%$ at In $\pm 10\%$ at 10 In $\pm 15\%$
20/1	Burden: 0,1 and 0,3 Oh. Error: at 0,05 In $\pm 15\%$ at In $\pm 10\%$ at 10 In $\pm 15\%$
30/1	Burden: 0,1 Oh. Error: at 0,05 In $\pm 15\%$ at In $\pm 10\%$ at 5 In $\pm 15\%$
50/1	Burden: 1 Oh. Error: at 0,05 In $\pm 15\%$ at In $\pm 10\%$ at 10 In $\pm 15\%$
60/1	Burden: 1 Oh. Error: at 0,05 In $\pm 15\%$ at In $\pm 10\%$ at 10 In $\pm 15\%$

ICO-3



CHARACTERISTICS

Ratio A	Characteristics
20/1	Burden: 0,1 Oh. Error: at 0,01 In $\pm 15\%$ at In $\pm 10\%$ at 10 In $\pm 15\%$
30/1	Burden: 0,1 Oh. Error: at 0,05 In $\pm 15\%$ at In $\pm 10\%$ at 5 In $\pm 15\%$
50/1	Burden: 0,1 Oh. Error: at 0,05 In $\pm 15\%$ at In $\pm 10\%$ at 5 In $\pm 15\%$
60/1	Burden: 0,1 Oh. Error: at 0,05 In $\pm 15\%$ at In $\pm 10\%$ at 5 In $\pm 15\%$
100/1	Burden: 0,1 Oh. Error: at 0,05 In $\pm 15\%$ at In $\pm 10\%$ at 5 In $\pm 15\%$

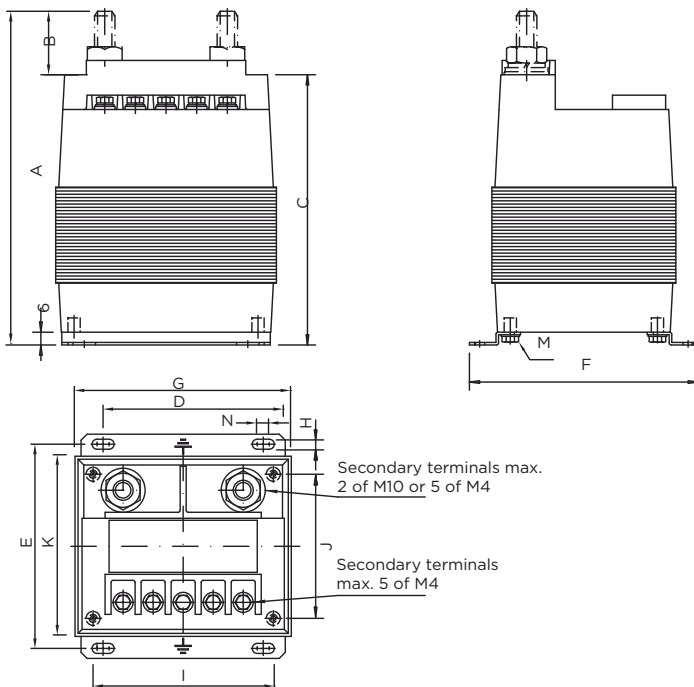


BUSHING CT

Window type current transformers, bushing type, for installation in power transformers, dead tank circuit breakers or Gas Insulated Switchgears (GIS). They are custom made designed based on the each project requirements.



IRM



CHARACTERISTICS

Type	Maximum current (A)	METERING	PROTECTION	A	B	C	D	E	F	G	H	I	J	M	N
IRM-2	Up to 15 A	30 VA CL0,5	10 VA 10P20	143	10	135	80	102	112	108	5	90	72	90	M4
	From 15 to 100 A	60 VA CL1	10 VA 5P20	163	30	155	—	—	—	—	—	—	—	—	—
IRM-3	Up to 15 A	45 VA CL0,5	25 VA 10P20	157	10	150	95	119	135	126	—	105	83	104	—
	From 15 to 100 A	90 VA CL1	20 VA 5P20	177	30	170	—	—	—	—	—	—	—	—	—
IRM-4	Up to 15 A	75 VA CL0,5	45 VA 10P30	197	10	190	—	—	—	—	7	—	—	—	M6
	From 15 to 100 A	150 VA CL1	45 VA 5P20	217	30	210	120	136	152	150	—	125	100	125	—
IRM-5	Up to 15 A	100 VA CL0,5	60 VA 5P20	217	10	210	—	—	—	—	—	—	—	—	—
	From 15 to 100 A	100 VA CL0,5	60 VA 5P20	237	30	230	—	—	—	—	—	—	—	—	—

VOLTAGE TRANSFORMERS

Resin-cast low voltage transformers for measuring and protection.

ADVANTAGES

- › Transformer can be assembled in any position.
- › Auxiliary services can be supplied.

RANGE

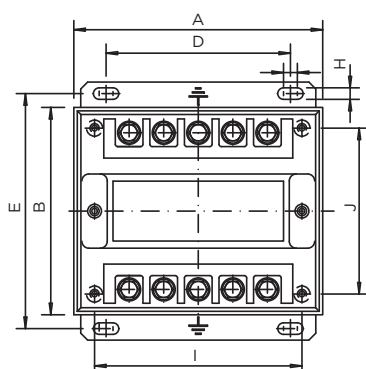
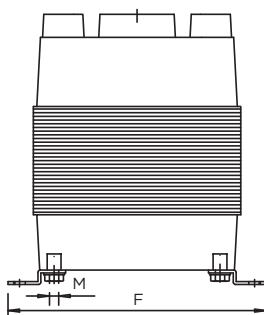
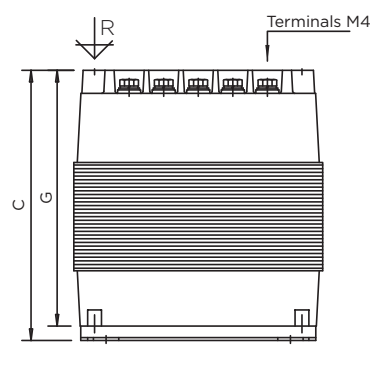
- › Insulation level 0.72 kV.
- › Frequencies: 50 Hz, 60 Hz.

APPLICATIONS

- › Low voltage panel.

1. VOLTAGE TRANSFORMERS > Metering and protection > Indoor

URC



DIMENSIONS															
Primary current A	Burden VA			Weight (kg)	A	B	C	D	E	F	G	H	I	J	M
	Class 0,5	Class 1	Thermal												
URC-52	15	45	200		108	90	111	80	102	112	117	5	90	72	M4
URC-71	25	60	300			104	113				120				
URC-72	30	70	450		126			95			127		105	83	
URC-80	10	20		6,2		105	120		119	135	128				
URC-91	75	150	600				131				138	7			M6
URC-92	150	300	900				161				168				
URC-93	200	400	1300		150	125	181	120	136	152	188		125	100	
URC-100	30	70		13,5			161				169				

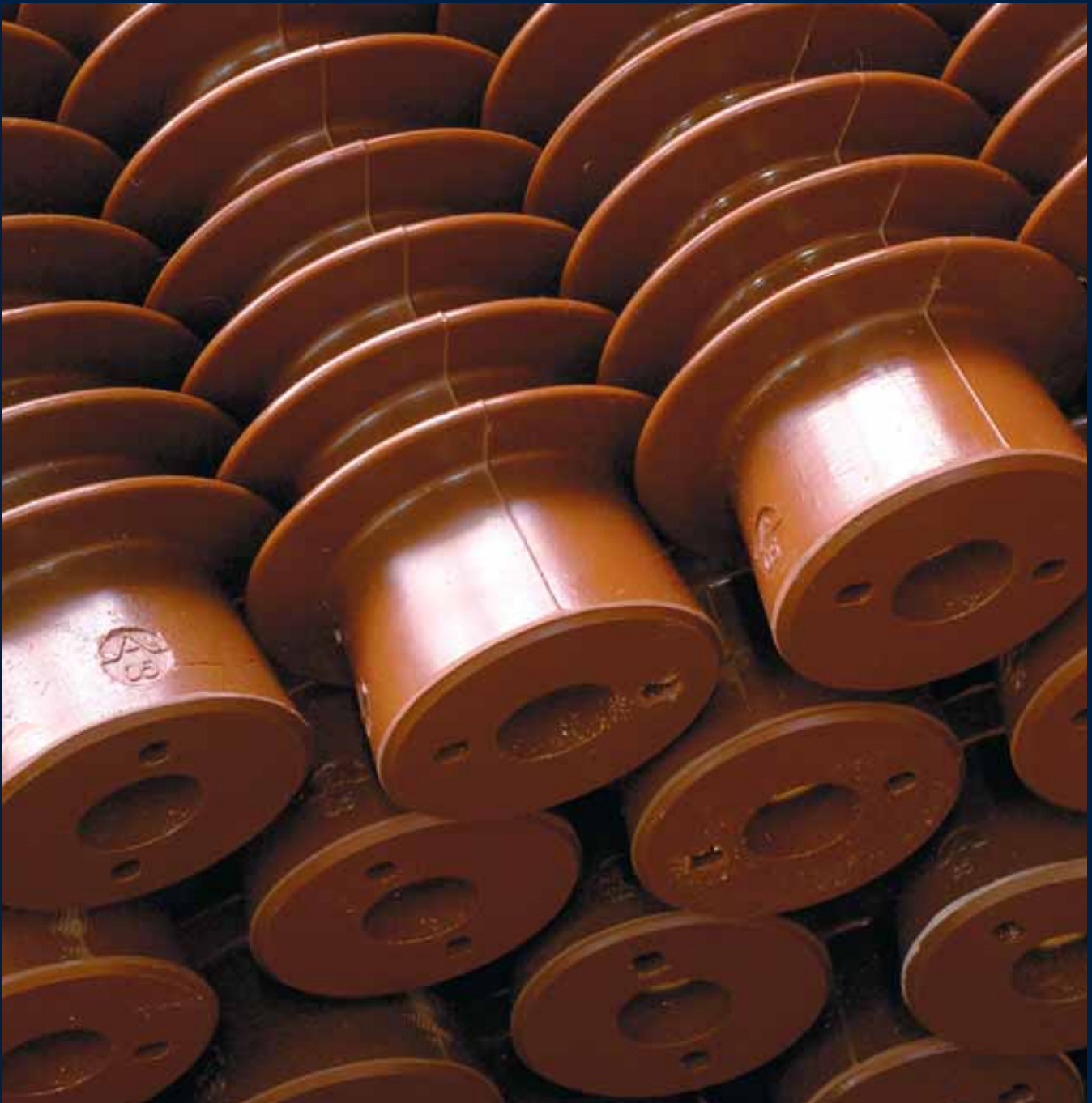
2. INSULATORS & WALL BUSHINGS

Support insulators

Signal insulators

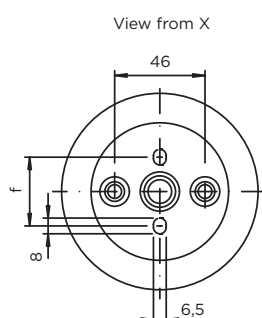
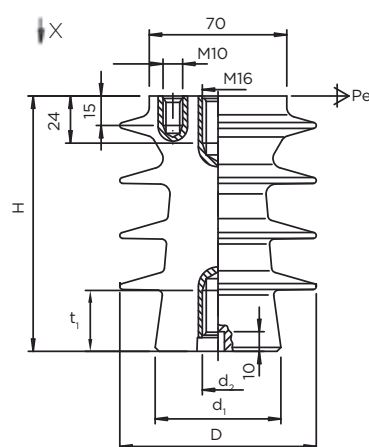
Signalling box

Wall bushings



2. INSULATORS AND WALL BUSHINGS > Support insulators > Indoor

AR

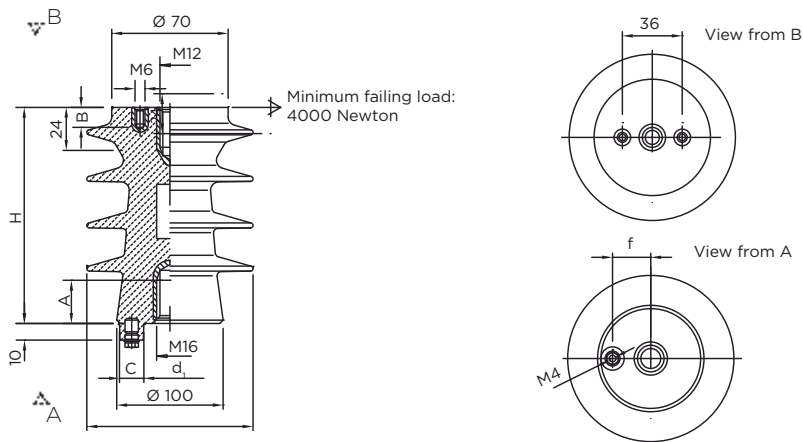


CHARACTERISTICS AND DIMENSIONS

Type	Highest system voltage kV	Rated insulation level		Minimum breaking stress P (kg)	No sheds	Weight (kg)	Creepage distance	H (±0,5)	Ø Máx. D	d ₁	d ₂	t ₁	f
		Lighning impulse (BIL) kV	Power frequency kV										
AR-8-60	7,2	60	80	800	3	0,7	200	95	100	56	M16	26	35
AR-8-75	12	75	38		4	0,98	272	130		64	M16	35	45
AR-8-95	17,5	95	50		6	1,37	340	175		69	M20	45	60
AR-8-125	24	125	70		7	1,65	397	210		74	M20	51	60
AR-8-170	36	170			11	2,57	555	300		84	M24		



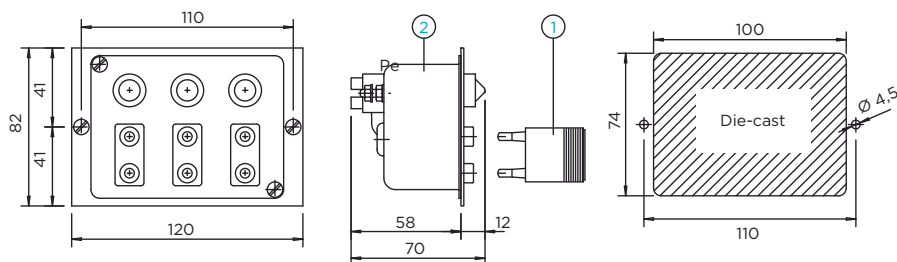
ARC



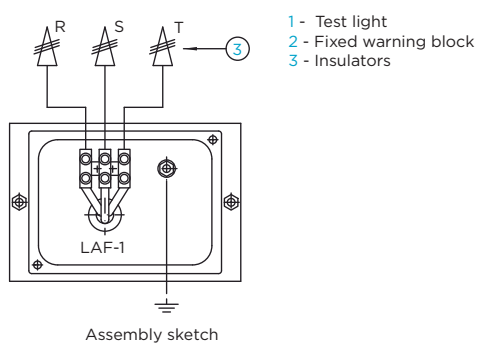
CHARACTERISTICS AND DIMENSIONS

Type	Highest system voltage kV	Lighning impulse (BIL) kV	Power frequency kV	kV min.	kV max.	Height (kg)	Creepage distance	H (±0,5)	d ₁	f	A	B	Ø C
ARC-8-40	3,6	40	10	1,2	3,6								
ARC-8-60	7,2	60	20	2,4	7,2	0,98	272	130	64	23	26	12	
ARC-8-75	12	75	28	4	12								16
ARC-8-95	17,5	95	38	5,8	17,5								
ARC-8-125	24	125	50	8	24	1,65	397	210	74	28	28	10	
ARC-8-170	36	170	70	12	36	2,60	555	300	84				

LAF-1



LAF-1 Application



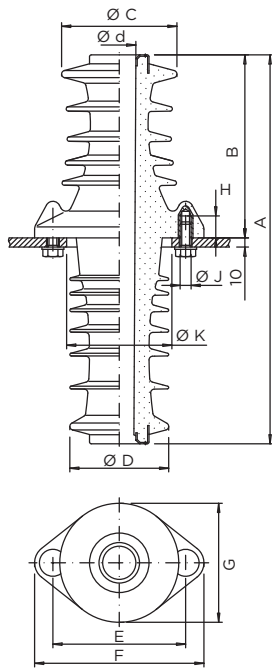
ARTECHE transformers
are installed in over 150
countries.



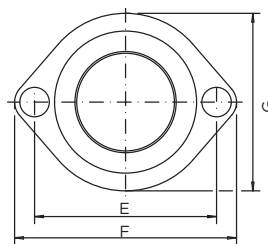
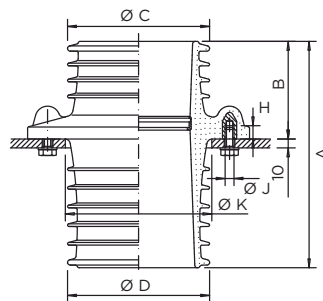
PRL - PRU - PRP



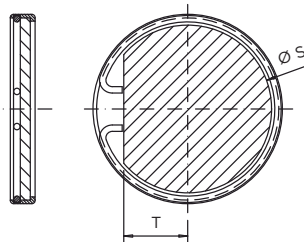
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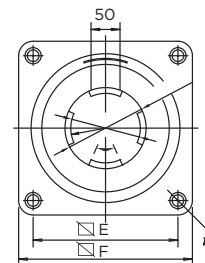
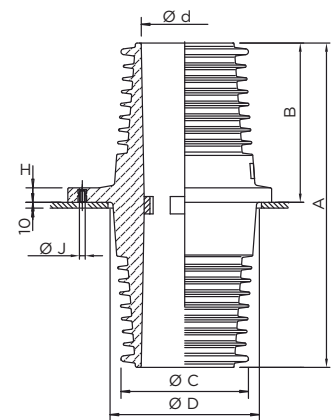
> PRU



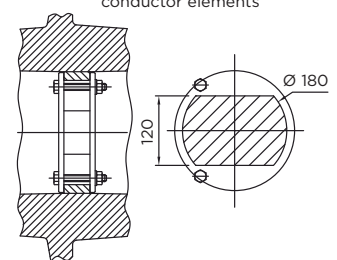
Detail (striped)
Useful zone to place
conductor elements



> PRP



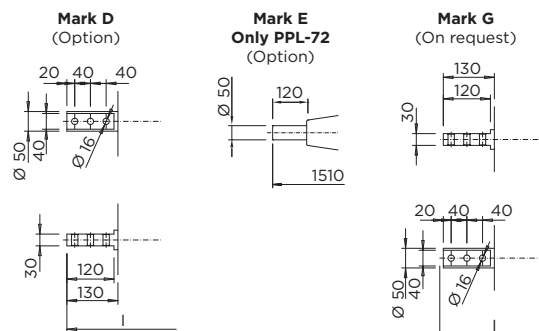
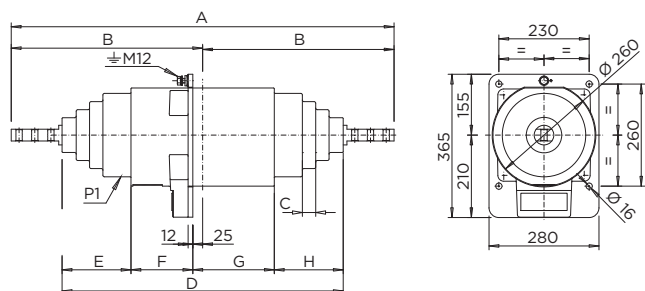
Detail (striped)
Useful zone to place
conductor elements



CHARACTERISTICS AND DIMENSIONS

Type	Highest system voltage kV	Ligthning Impulse (BIL) kV	Bars max.	Current max.	Weight (kg)	A	B	C	D	d	E	F	G	H	J	K	S	T
PRL-12			30		1,6	285	135	83	77	31	110	130	110			85		
PRU-12/75	12	75	60	1.000	2,3	255	110	115	115	68	160	200	160	15	M10	120	65	20
PRU-12/115			100		3,5			160	160	110	205	250	200			165	105	40
PRL-24	24	125	30	2.500	4,5	425	200	125	108	31	145	185	130			115		
PRU-24/115			100		9			185	185	110	230	280	210	24	M12	190	105	40
PRP-36	36	170	120		32,5	560	275	220	220	120	250	300	300	25	20	257		

PPL



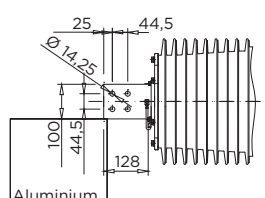
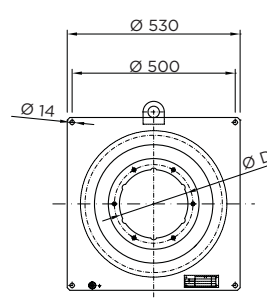
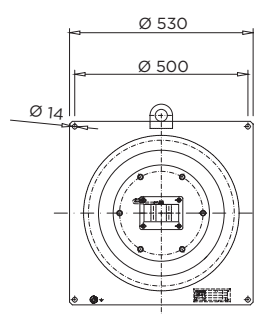
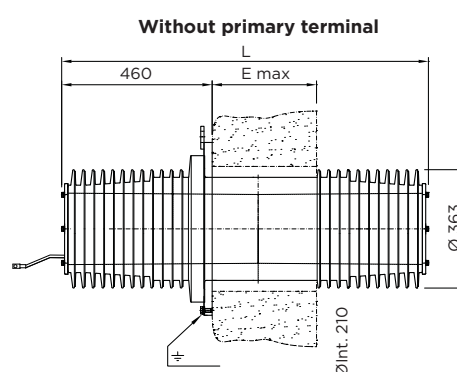
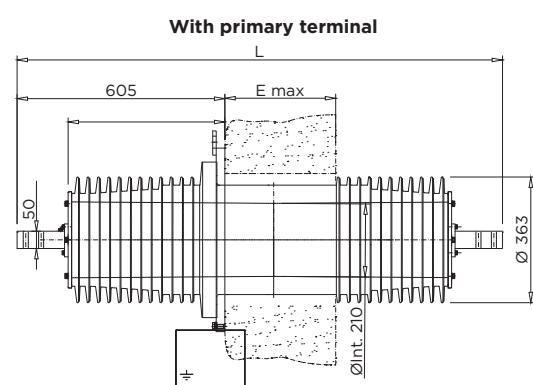
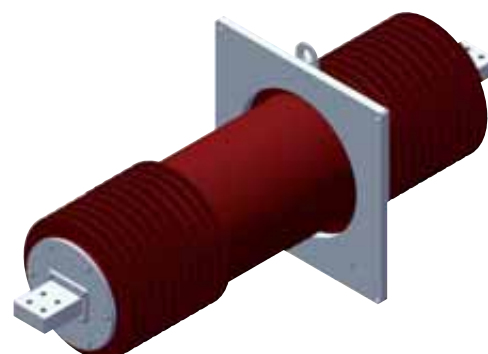
DIMENSIONS

Type	A	B	C	D	E	F	G	H	I
PPL-12	706	353		442	38,5	157,5	207,5	38,5	706
PPL-36			34	716	175,5			175,5	975
PPL-72				1.270	451	159	209	451	1.530

The innovation undertaken by ARTECHE in instrument transformers during the late years have made them more efficient, with compact designs for an easier transport, store, and installation and to minimize their visual impact.

PPE-36

DIMENSIONS				
Type	Mark	Ø D	E max	L
With primary terminal	A		320	1412
	B		400	1492
Without primary terminal	A	125	320	1125
	B		400	1205
	C	210	320	1125
	D		400	1205



3. MANUFACTURING AND TECHNOLOGY

With 65 years of experience, ARTECHE guarantees the performance of its transformers regardless of altitude, weather, seismic or environmental conditions.



MANUFACTURING AND TECHNOLOGY

- › Equipment undergoing a continuous innovation process including: computerized systems for transformer calculation, analysis of the distribution of the electric field by FEM, automatic winding machines, casting in epoxy resin or polyurethane by gravity in vacuum tanks or pressurized gelification, controlled polymerization in large ovens.
- › Own laboratories with modern equipment, approved for any routine or type test, either for new developments or for specific requirements from our customers in power generation, transmission, distribution or industry.
- › Approved in laboratories belonging to the International Metrology Committee: PTB (Germany), L.C.O.E (Spain), GOST (Russia), BEV (Austria), GUM (Poland) etc.
- › Large production capacity of more than 50.000 units per year in medium voltage and an almost unlimited number of devices in low voltage, insulators and wall bushings. This capacity allows us to give a quick answer to any requirement.
- › Flexible designs, adapted to any specification, as a result of our strong engineering team located in all our production facilities.
- › Maximum safety with resin-cast transformers in which the core and the winding form a compact block. The resin acts as a dielectric support, protective casing and thermal conductor for the transformer.
- › Equipment compliant to any international or domestic standard: IEC, IEEE, UNE, BS, VDE, SS, CAN, AS, UL, NBR, JIS, GOST, NF, etc.

In 2011, ARTECHE invested 12 million euros into R&D+i.



- › Physical and chemical laboratories conduct over 130 tests to certify the quality of raw materials.

4. QUALITY & ENVIRONMENT

Exceeding **environmental regulations**, ARTECHE has been able to minimize the use of hazardous materials, energy consumption and waste generation.



QUALITY & ENVIRONMENT

Everyone in the ARTECHE Group works under the criteria set out in our environmental and quality policy.

A sum of regulated procedures based on communication, teamwork, prevention analysis and continuous improvement, common to the whole organization.

- › Advanced sustainability criteria in production and in the creation and development of new products.
- › Compact designs, manufactured with minimal energy consumption and environmental-friendly materials.
- › Internal and external skill motivation programs.
- › Advanced development of knowledge management.
- › Quality agreements with utilities.
- › Physico-chemical and electrical laboratories for testing under any International Standard.
- › Type test reports issued by KEMA, CESI, LAPEM, RENARDIÈRES, etc.
- › Final testing according to specific customer requirements.
- › Approvals in more than 100 electricity companies.
- › ISO 14001:2004.
- › ISO 9001:2008.

ARTECHE's financial and technological independence gives a privileged position ahead of the challenges in the sector.



5. SERVICE

Over 70 technical/sales service centers with real knowledge about each customer provide fast and close service.



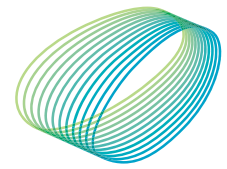
SERVICE

- › ARTECHE's service is based on a close relationship with the customers, reflected in the integrated post-sale assistance plan and structured client opinion system.
- › In addition to ensuring rapid response, ARTECHE developed a continuous service improvement plan, which sustains an extensive training program with courses, publications, conferences, etc.
- › ARTECHE's focus on service, with a broad experience leading us to be an active participant in the electrical organizations such as: IEC, IEEE, CIGRE, CIRED, ASINEL, etc.
- › ARTECHE has production facilities in four continents (North America, South America, Europe, Asia and Australia) and more than 70 technical/commercial offices. Thus ARTECHE provides effective responses to the requirements of any customer and situation, based on the global knowledge acquired.

ARTECHE has the technology and capabilities of instrument transformers. Thus we provide the best solution available in the market.



- › The solutions ARTECHE has developed and expanded upon have made it a major player participating in the most significant events and workgroups in the electricity sector.



arteche
Moving together