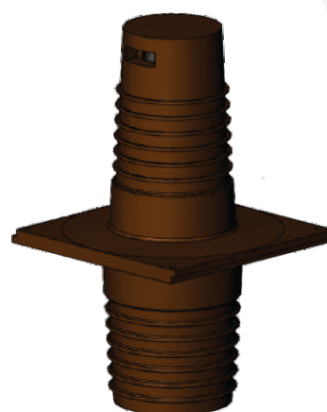
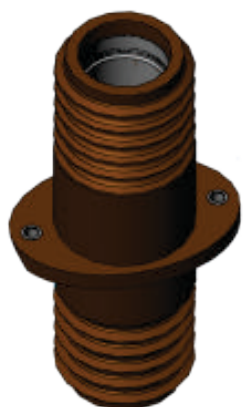




INSULATORS



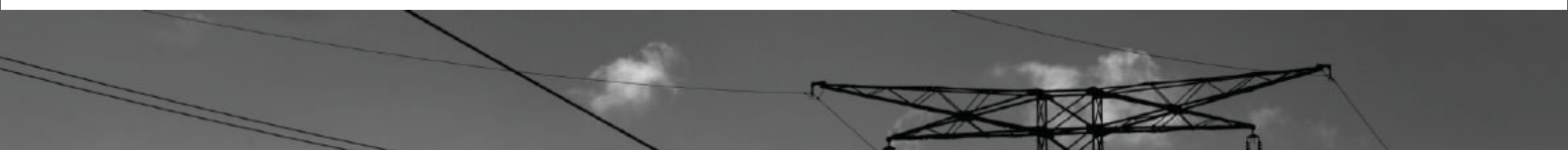
MINEL
ENERGY
— SINCE 1956 —

www.minelfepo.com

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— SINCE 1956 —





Main activities of the company

Production of low and medium voltage instrument transformers

Production of supporting and bushing insulators

Our company was established in 1956 in Zrenjanin under the name Minel Fepo

During the six decades of presence on the market of power equipment the company has become a synonym for the quality and reliability in the country and worldwide.

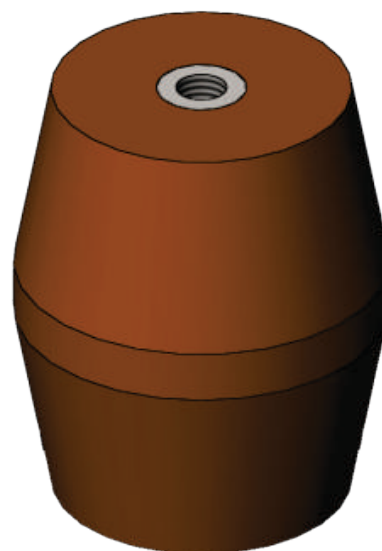
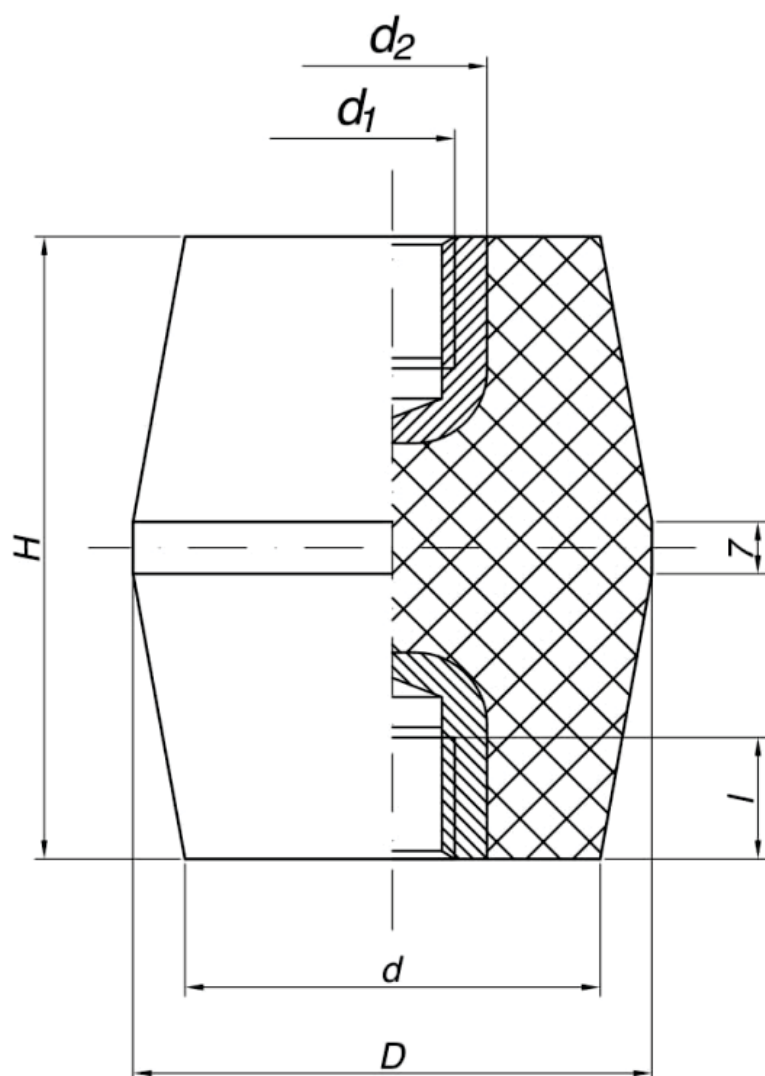
Since 2017. the company operates under the name “Minel Energy”.

Minel Energy continues a production of well-known products - instrument transformers and insulators for domestic and foreign markets.

The products entirely fulfill all the requests set by the IEC and GOST standards.

PNI A1, A2, B1, B2

Low voltage

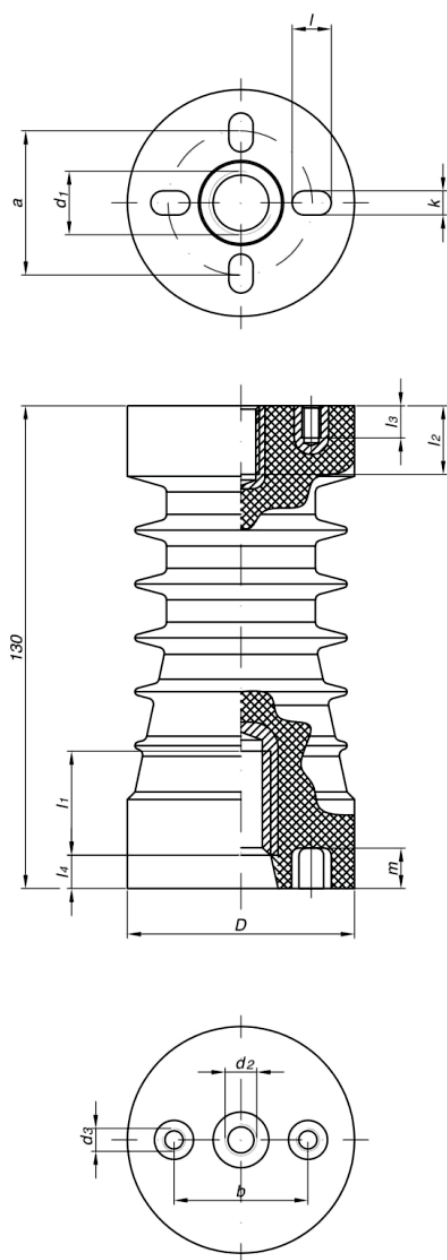


Type	U _{max} (V)	F (kN)	D	d	d ₁	d ₂	l	H	Q (kg)
PNI-A1	600	4	30	25	M6	10	8	30	0,038
PNI-A2	600	4	40	30	M8	14	9	45	0,097
PNI-B1	1200	8	50	40	M10	14	10	60	0,217
PNI-B2	1200	8	50	40	M16	26	16	60	0,225

Insulation type - epoxy resin

SAG 12; SCG 12

Medium voltage, supporting insulator

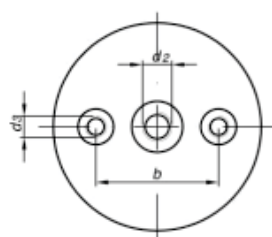
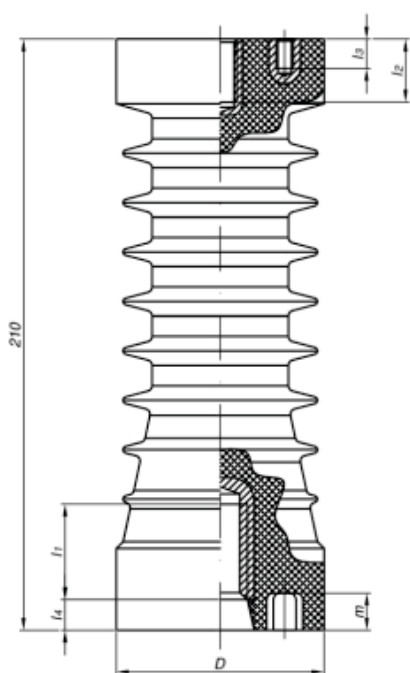
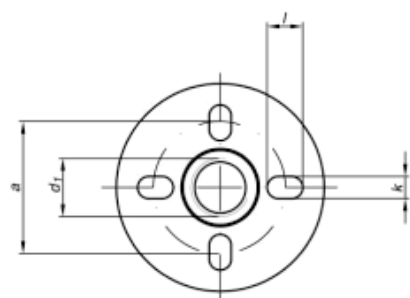


Type	U _{max} (Kv)	F (kN)	D mm	d1 mm	d2 mm	d3 mm	b mm	l1 mm	l2 mm	l3 mm	l4 mm	a mm	m mm	kxl mm	Q (kg)
SAG 12	12	4	61	M16	M10	M6	36	26	15	9	10	38	10	6,5x8	0,7

Type	U _{max} (Kv)	F (kN)	D mm	d1 mm	d2 mm	d3 mm	b mm	l1 mm	l2 mm	l3 mm	l4 mm	a mm	m mm	kxl mm	Q (kg)
SCG 12	12	12,5	91	M20	M16	M10	66	26	25	12	20	55	10	6,5x8	1,5

Insulation type - epoxy resin

Medium voltage, supporting insulator

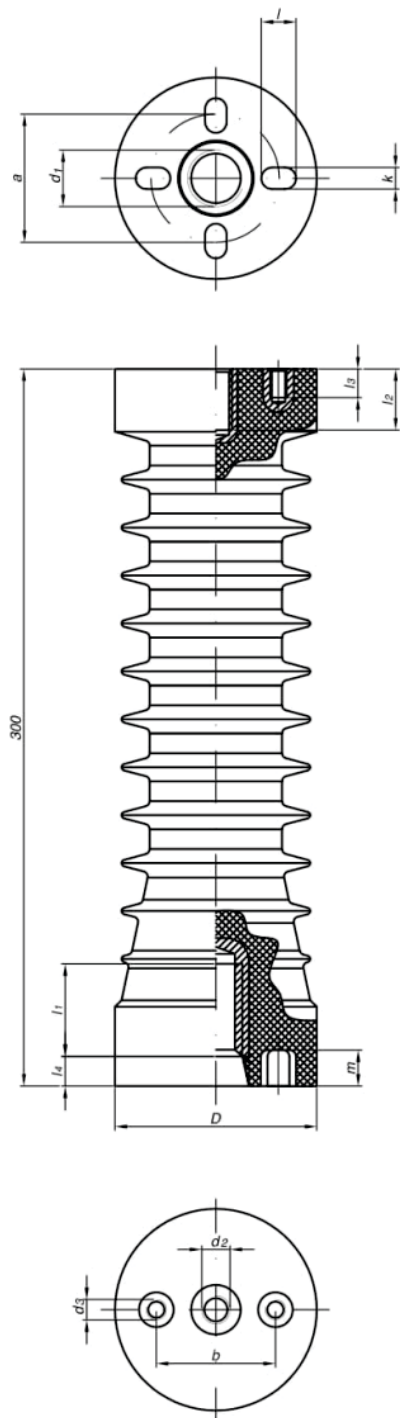


Type	U _{max} (Kv)	F (kN)	D mm	d ₁ mm	d ₂ mm	d ₃ mm	b mm	l ₁ mm	l ₂ mm	l ₃ mm	l ₄ mm	a mm	m mm	kxl mm	Q (kg)
SAG 24	24	4	75	M16	M10	M6	36	26	15	9	20	45	10	6,5x8	1,4

Insulation type - epoxy resin

SAG 38

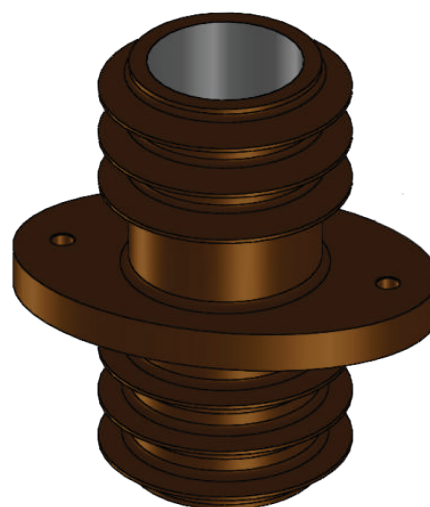
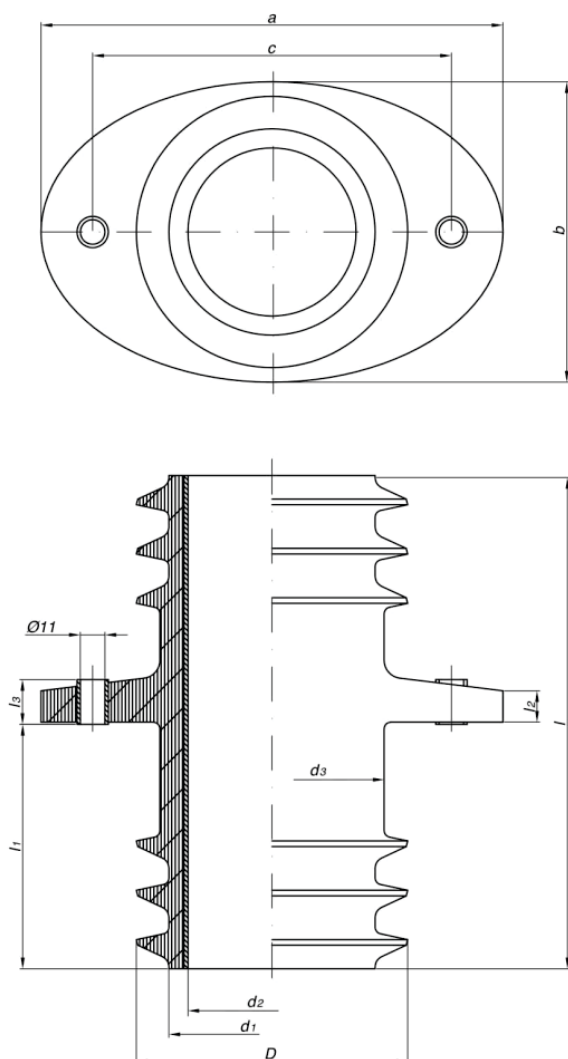
Medium voltage, supporting insulator



Type	U _{max} (Kv)	F (kN)	D mm	d1 mm	d2 mm	d3 mm	b mm	l1 mm	l2 mm	l3 mm	l4 mm	a mm	m mm	kxl mm	Q (kg)
SAG 38	38	4	82	M16	M10	M6	36	27	15	9	20	45	10	6,5x8	2,18

Insulation type - epoxy resin

Conductive insulator



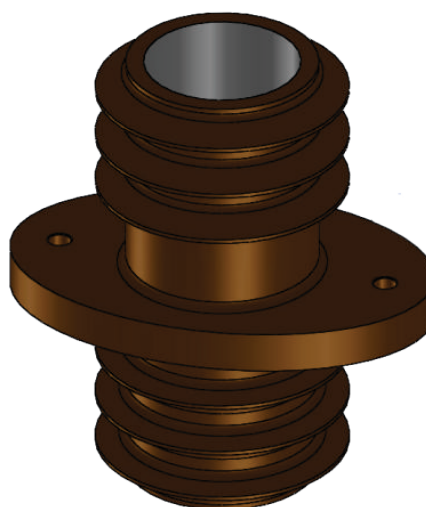
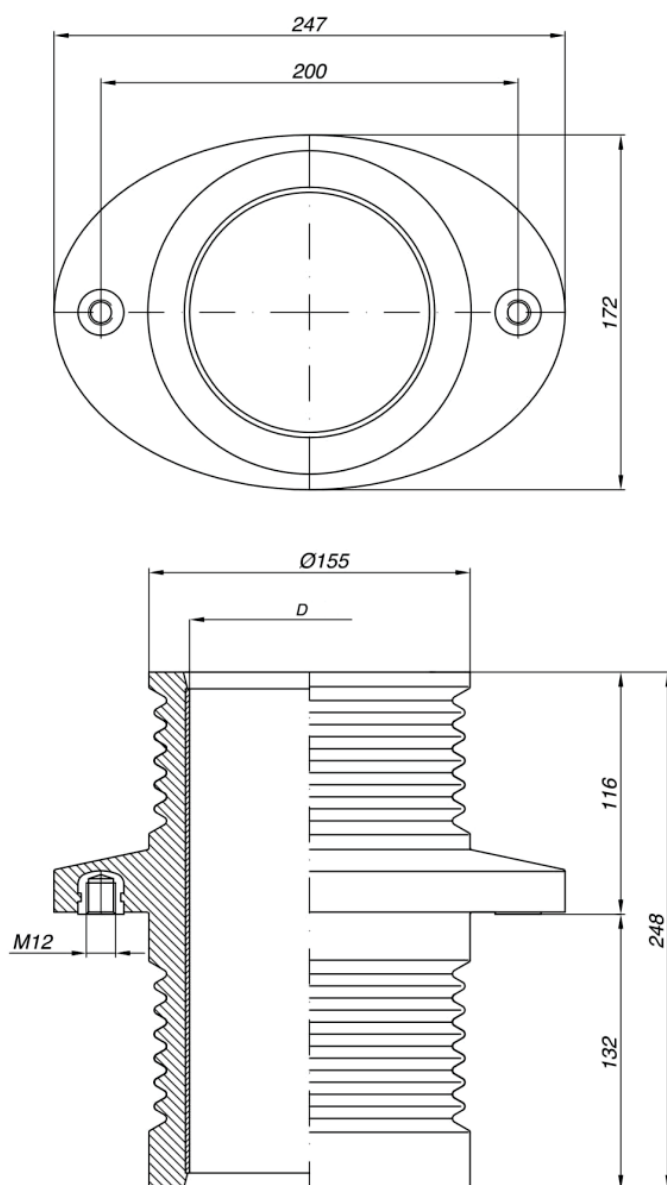
l	l ₁	l ₂	l ₃	D	d ₁	d ₂	d ₃	a	b	c
220	110	14	20	121	92	75	100	206	134	160

Type	PI 12/75
U _{max}	10 kV
F	1000 daN
S	12 kV
n	2x(60x10) mm
Q	1,9 kg

Insulation type - epoxy resin

PI 12/115; PI 12/120

Conductive insulator

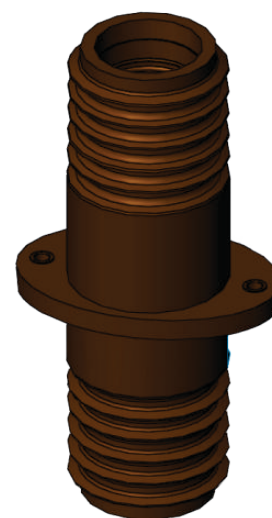
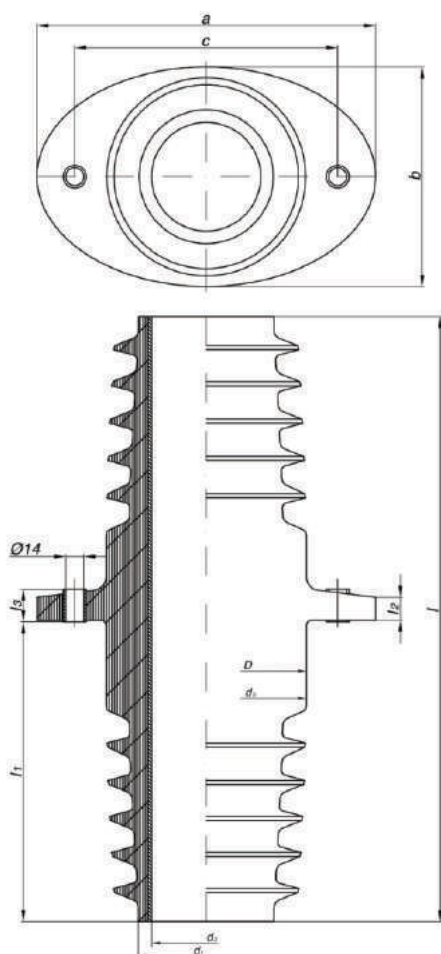


Type	PI 12/115
U_{max}	10 kV
F	1000 daN
S	12 kV
n	2x(100x10) mm
Q	1,9 kg
D	115 mm

Type	PI 12/120
U_{max}	10 kV
F	1000 daN
S	12 kV
n	2x(100x10) mm
Q	4,2 kg
D	120 mm

Insulation type - epoxy resin

Conductive insulator



l	l ₁	l ₂	l ₃	D	d ₁	d ₂	d ₃	a	b	c
460	235	20	30	>132	96	75	132	225	150	180

24/75

l	l ₁	l ₂	l ₃	D	d ₁	d ₂	d ₃	a	b	c
460	240	20	30	>154	114	95	154	245	170	200

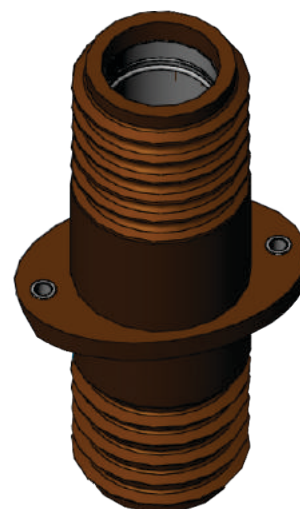
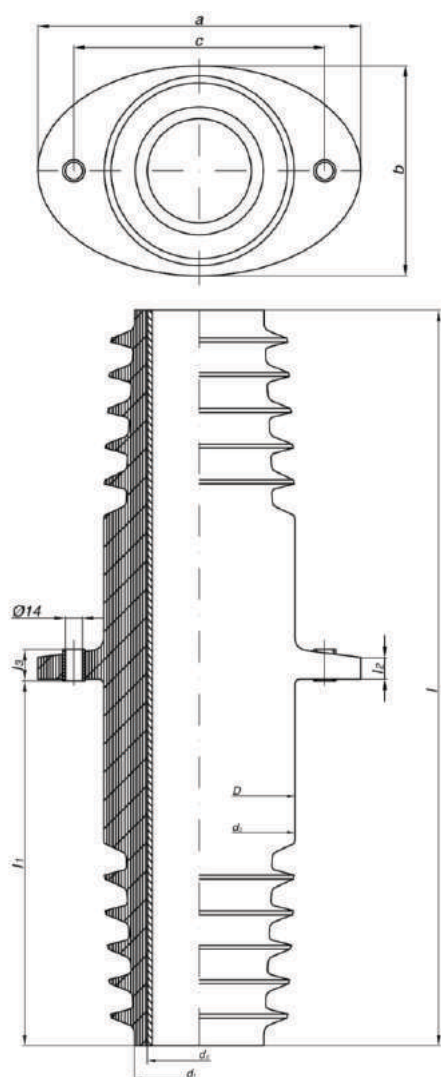
24/95

Type	PI 24/75
U _{max}	20 kV
F	1000 daN
S	24 kV
n	2x(60x10) mm
Q	6,5 kg

Type	PI 24/95
U _{max}	20 kV
F	1250 daN
S	24 kV
n	2x(80x10) mm
Q	7,5 kg

Insulation type - epoxy resin

Conductive insulator



l	l ₁	l ₂	l ₃	D	d ₁	d ₂	d ₃	a	b	c
570	300	20	30	>154	114	75	154	245	170	200

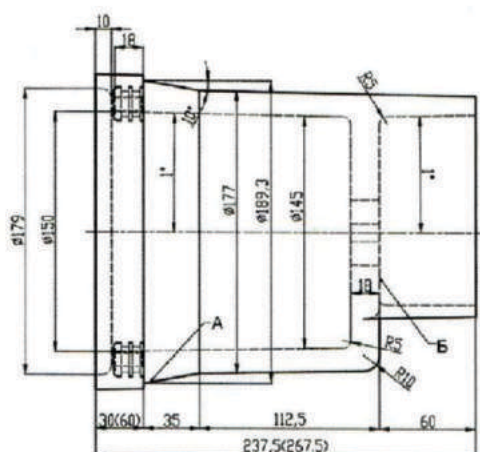
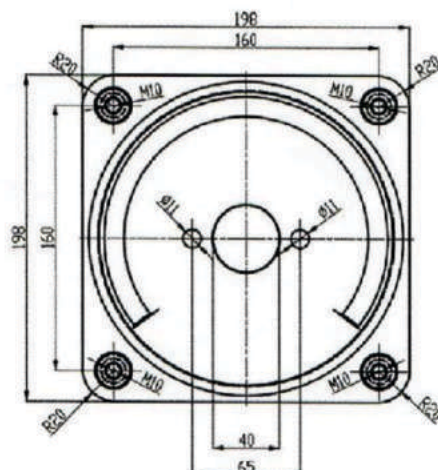
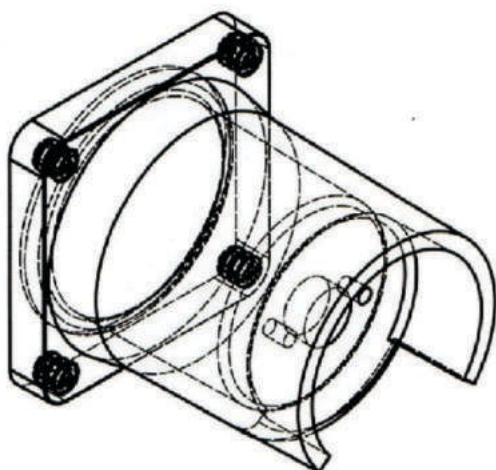
Type	PI 38/75
U _{max}	38 kV
F	1000 daN
S	38 kV
n	2x(60x10) mm
Q	13,5 kg

Insulation type - epoxy resin

Wall bushing insulator

Operating voltage, kV	10
Maximum operating voltage, kV	12
Nominal working current, A	1600
Testing with five-minute strain industrial frequencies, kV	42
Mass, kg	4,7

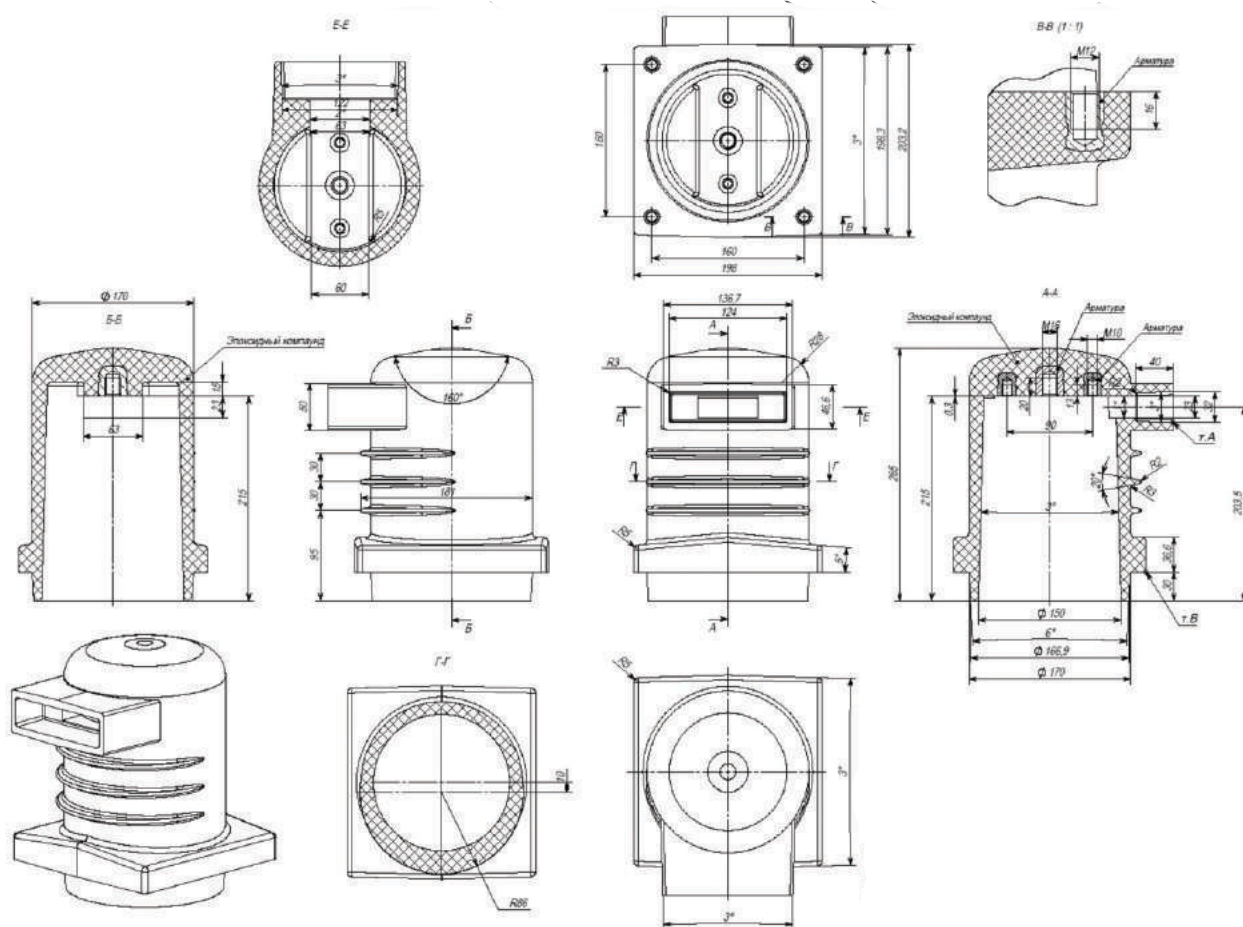
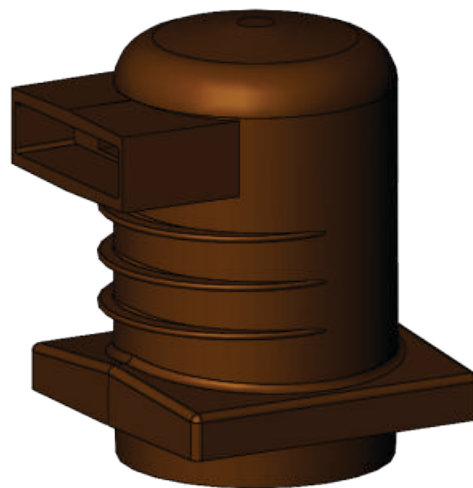
* other height possible on request



Insulation type - epoxy resin

Bolt bushing insulator

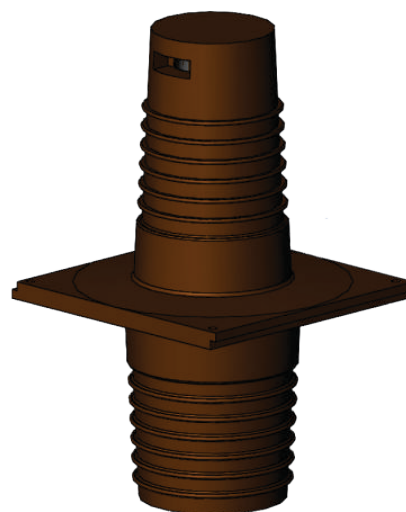
Operating voltage, kV	10
Maximum operating voltage, kV	12
Nominal working current, A	2500
Testing with five-minute strain industrial frequencies, kV	42
Mass, kg	5,7



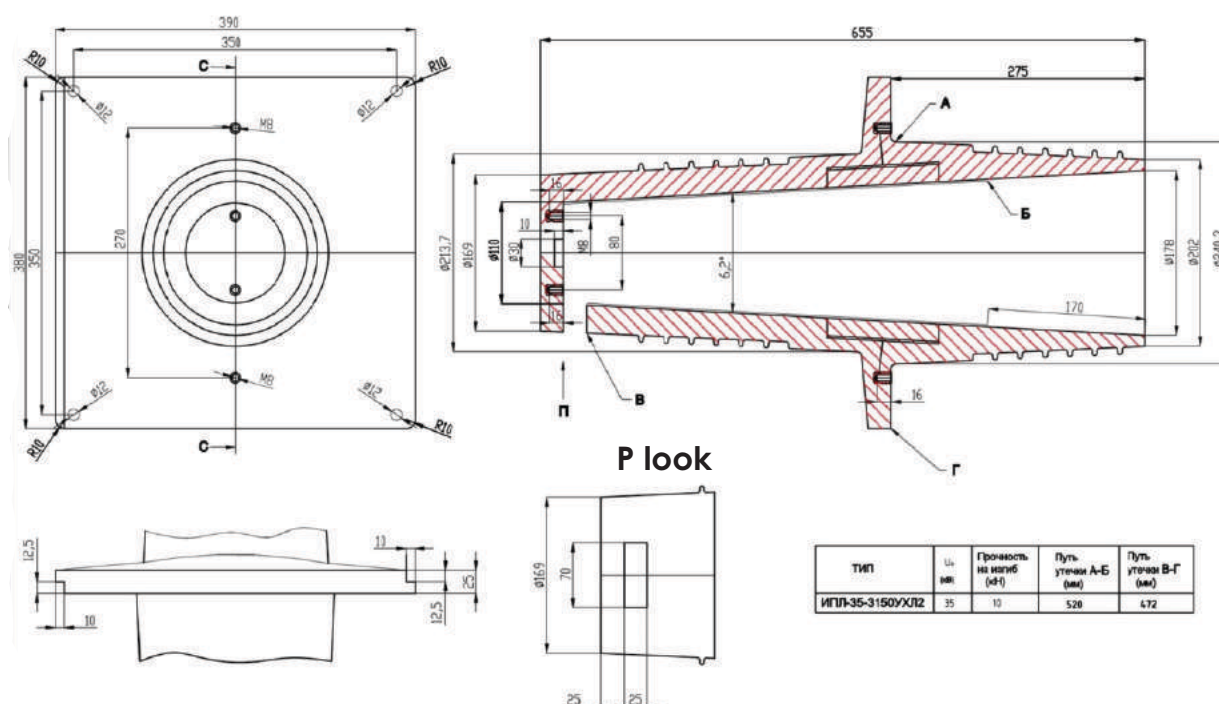
Insulation type - epoxy resin

Wall bushing insulator

Operating voltage, kV	35
Maximum operating voltage, kV	38
Nominal working current, A	3150
Testing with five-minute strain industrial frequencies, kV	95
Mass, kg	28



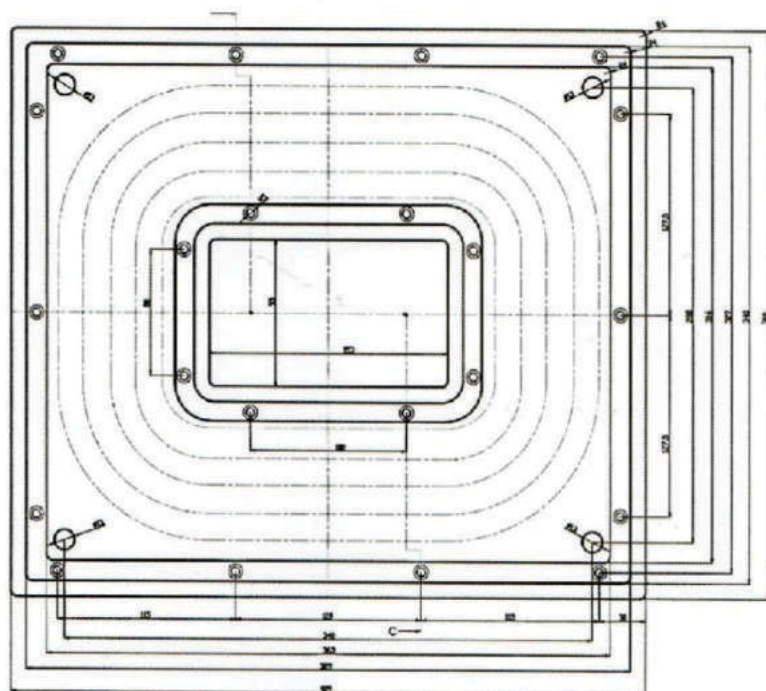
S-S section



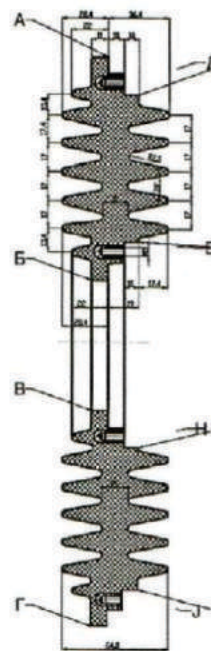
Insulation type - epoxy resin

Wall bushing insulator

Operating voltage, кV	35
Maximum operating voltage, кV	38
Nominal working current, A	1600
Testing with five-minute strain industrial frequencies, кV	95
Mass, kg	7,8



S-S look



Insulation type - epoxy resin



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