



SINAR ELEKTRONIKA
SEB
TRANSFORMER

PT - 1P

POTENTIAL TRANSFORMER

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**PT - 2C1P**

POTENTIAL TRANSFORMER

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**CTR - 3P**

3 PHASE TRANSFORMER

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**OD - 2C3P**

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**IT - 3P**INSULATION TRANSFORMER
DRY TYPE

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**Transformer
Box**

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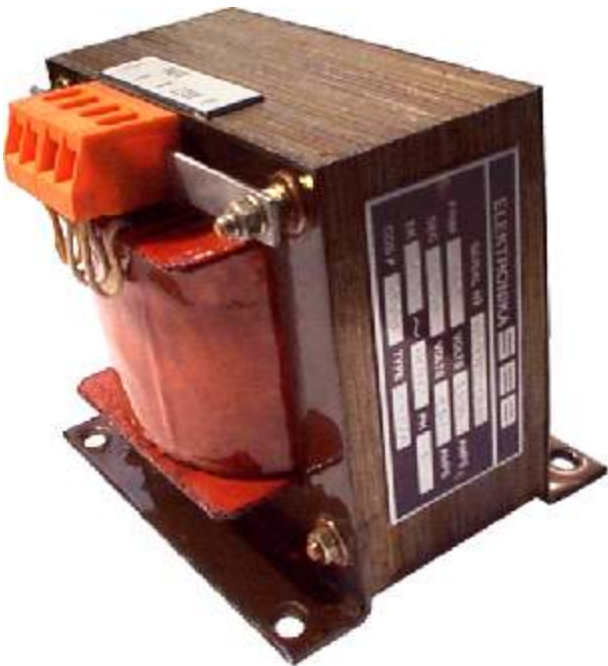
**Custom
Transformer**

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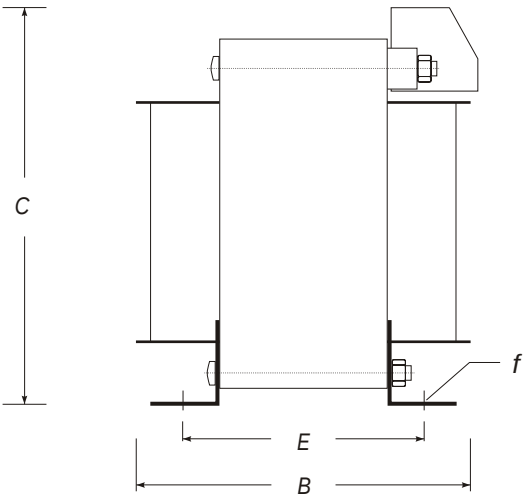
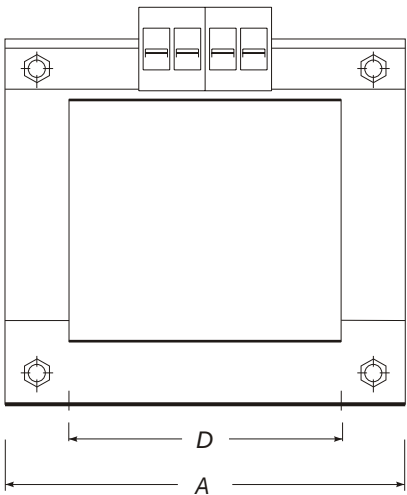
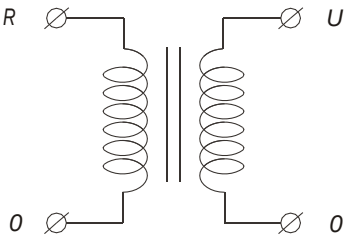
■ PT - 1P
POTENTIAL TRANSFORMER

Input : 100V...550V
Output : 100V...550V
Frequency : 50/60 Hz
Phase : 1
Max. Temperature : 80° C
Isolation Class : F



SIZE* VA	DIMENSION (mm)					f	Kg
	A	B	C	D	E		
50	87	77	90	58	64	6	1.8
75	87	77	90	58	64	6	1.9
100	96	90	100	65	72	6	2
150	96	90	100	65	72	6	3
200	115	90	120	77	72	6	4
250	115	95	120	77	77	6	4.5
300	132	100	145	90	80	7	5.5
400	132	110	145	90	85	7	5.8
500	132	115	145	90	90	7	6
600	132	120	145	90	90	7	6.5
750	132	130	145	90	105	7	7.5

*Other ratings upon request.



Transformer

Custom

Transformer Box

IT - 3P

PT - 2C1P

CTR - 3P

OD - 2C3P

PT - 1P

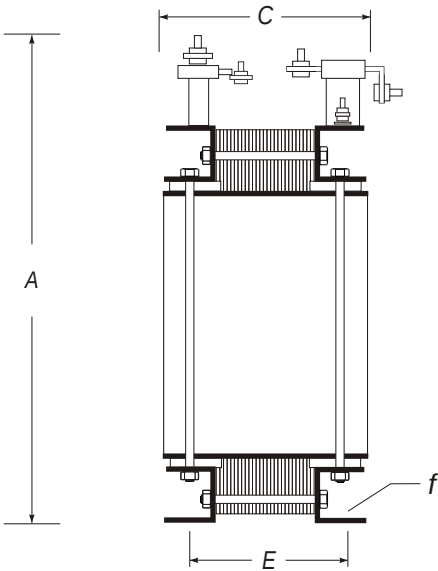
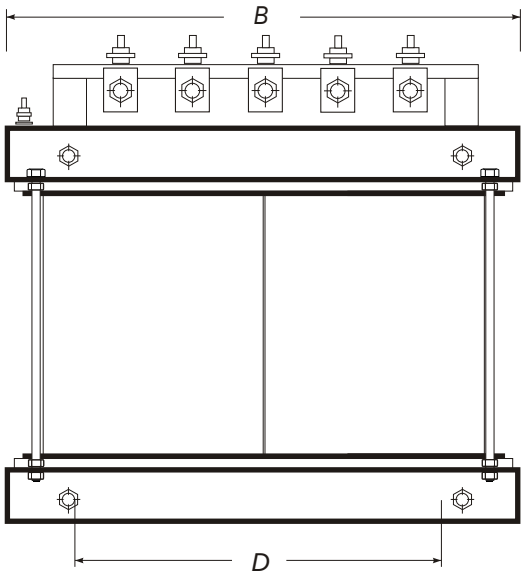
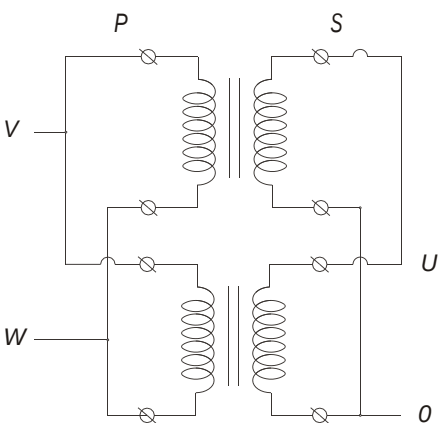
■ PT - 2C1P
POTENTIAL TRANSFORMER

Input : 100V...550V
Output : 100V...550V
Frequency : 50/60 Hz
Phase : 1
Max. Temperature : 80° C
Isolation Class : F



SIZE* KVA	DIMENSION (mm)					f
	A	B	C	D	E	
1	240	200	175	150	130	10
1.5	240	200	175	150	130	10
2	240	200	180	150	130	10
2.5	250	240	180	150	135	10
3	290	240	190	150	140	10
4	320	280	190	150	140	10
5	320	280	190	150	140	10
6	320	280	200	150	150	10
7.5	370	320	220	180	150	12
10	410	340	230	180	170	12
15	460	400	240	220	180	12

*Other ratings upon request.



Transformer

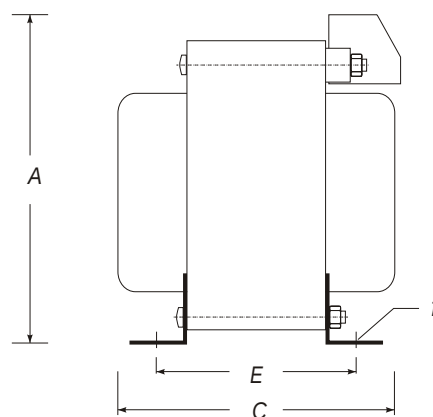
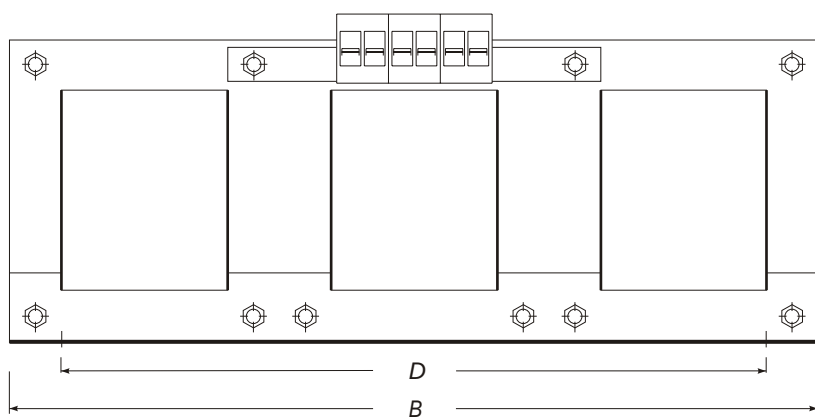
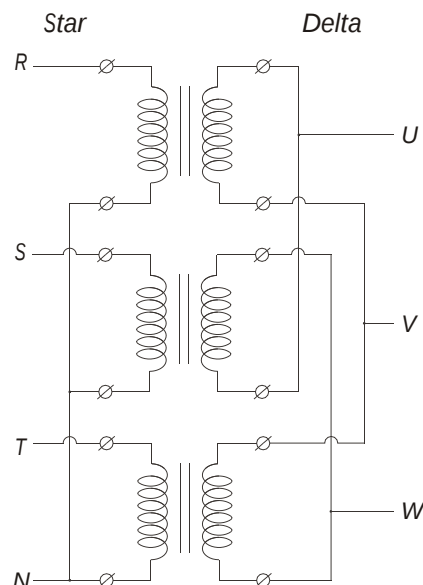
■ CTR - 3P 3 PHASE TRANSFORMER

Input : 100V...550V
 Output : 100V...550V
 Frequency : 50/60 Hz
 Phase : 3
 Connection : Star - Delta / Delta - Star
 Max. Temperature : 80°C
 Isolation Class : F



SIZE*	DIMENSION (mm)					f
	VA	A	B	C	D	
50	95	210	80	195	65	6
100	95	210	80	195	65	6
150	95	210	90	195	75	6
200	110	240	90	210	85	6
250	110	240	90	210	85	8
300	125	285	80	255	65	8
400	125	285	80	255	65	8

*Other ratings upon request.



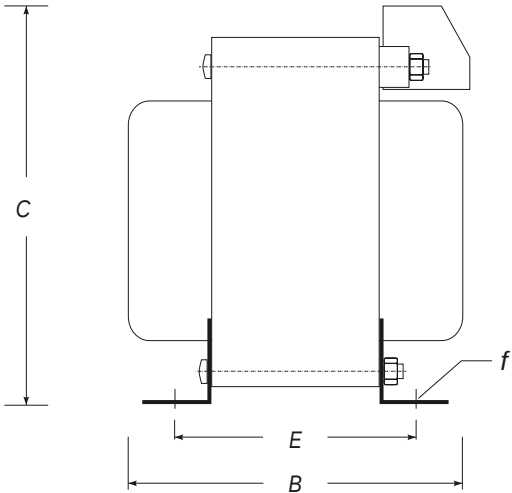
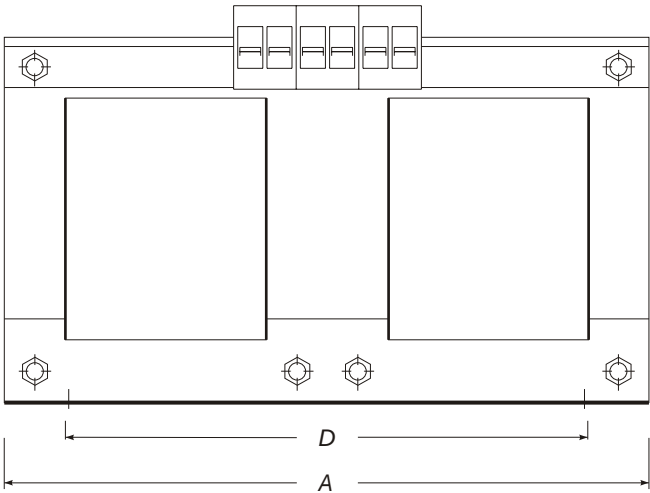
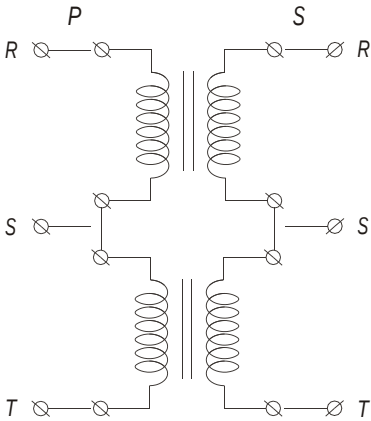
■ OD - 2C3P
OPEN DELTA TRANSFORMER

Input : 100V...550V
Output : 100V...550V
Frequency : 50/60 Hz
Phase : 3
Connection : Open Delta
Max. Temperature : 80° C
Isolation Class : F



SIZE* KVA	DIMENSION (mm)					f
	A	B	C	D	E	
50	95	145	80	130	65	6
100	105	160	85	145	70	6
150	105	160	90	145	75	6
200	125	190	80	175	65	6
250	125	190	90	175	75	6
300	145	220	100	205	75	8
400	145	220	105	205	80	8
500	145	220	110	205	85	8

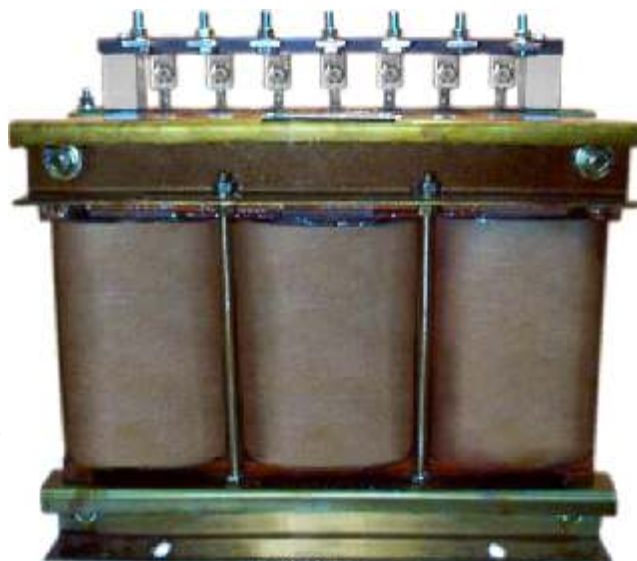
*Other ratings upon request.



■ IT - 3P

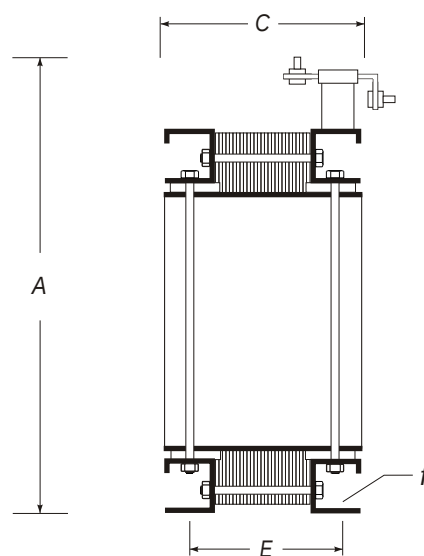
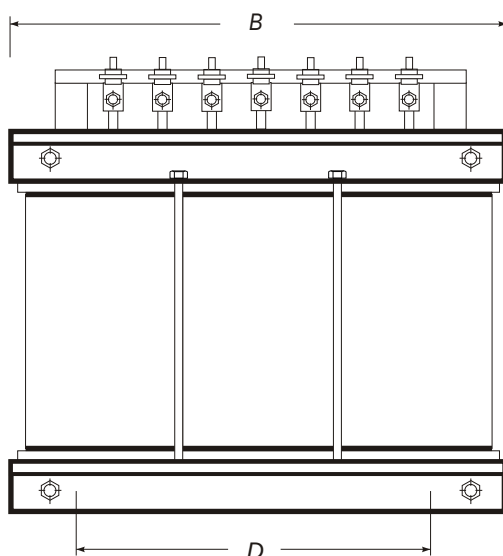
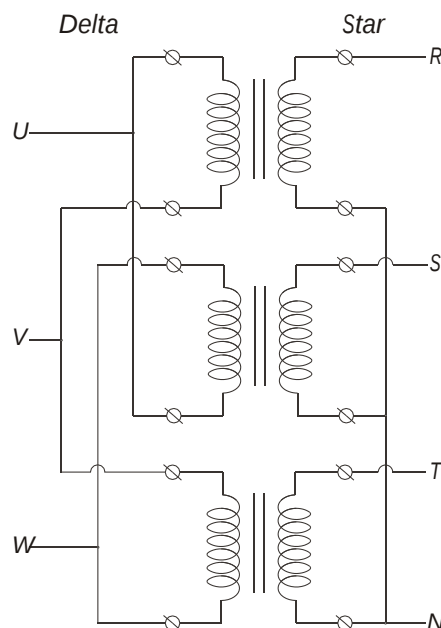
INSULATION TRANSFORMER DRY TYPE

Input : 100V...550V
 Output : 100V...550V
 Frequency : 50/60 Hz
 Phase : 3
 Connection : Delta - Star / Star - Delta
 Max. Temperature : 80° C
 Isolation Class : F



SIZE* KVA	DIMENSION (mm)					f
	A	B	C	D	E	
0.5	160	195	100	120	75	8
0.75	160	195	110	120	85	8
1	250	200	140	120	100	8
2	300	240	140	160	120	8
3	300	300	150	200	130	8
4	300	300	160	200	140	8
5	350	300	160	200	140	8
6	350	350	160	240	140	10
7.5	350	350	170	240	150	10
10	450	420	190	280	150	10
15	500	450	190	280	160	10
20	500	500	190	320	160	10
25	500	550	210	360	180	10
30	550	550	215	360	180	10
40	600	600	220	360	190	12
50	650	600	220	400	190	12

*Other ratings upon request.



Transformer

Custom

Transformer Box

IT - 3P

PT - 2C1P

CTR - 3P

OD - 2C3P

PT - 1P

■ OUTDOOR BOX

IP : 5.4
Installation : Free Standing
Material : Galvanized Steel
Paint Thickness : 150 micron



■ INDOOR BOX

IP : 2.2
Installation : Free Standing
Paint Thickness : 65 micron



Custom Designs

SEB Transformers allow you to combine your specifications with our flexible custom transformer designs to produce solution that precisely meet your needs.

Decades of experience have resulted in knowhow in utilizing numerous configurations and characteristics.

- Our capabilities include, but not limited to:
- Detailed knowhow.
 - Extensive production testing to ensure product performance, according to specification.
 - Designed to the widest variety of electrical specifications, mounting configurations, and material choices in the industry.

Example of SEB Transformer Custom Designs

■ MEDIUM VOLTAGE TRANSFORMER



■ MULTI - TAP TRANSFORMER



Transformer Construction

1. Core:

SEB Transformers use GRAIN ORIENTED SILICON CORE to obtain better mechanical strength, most favorable phase angle and best possible accuracy.

2. Coil:

Excellent SEB Transformers dielectric strength is obtained by using Enamel Wire material class IW 180°, combined with class F coil insulation.

3. Baking Varnish:

Outstanding SEB Transformers mechanical strength from vibration is achieved by immersing the transformer in the class F Baking Varnish at 150° C.

4. Testing:

Each SEB Transformer, before leaving factory must undergo specific testing such as:

- Merger Test, for testing the transformer's insulation resistance.
- No Load Test, for testing the transformer without any load.
- Injection Test, by charging the transformer with 2,5 KV electric potential for 1 minute.
- Sort circuit test, by sort circuiting the transformer.

Konstruksi Trafo

1. Inti Trafo:

Untuk mendapatkan kekuatan mekanik dan sudut phasa yang kecil serta tingkat ketelitian yang baik, Inti Trafo menggunakan bahan GRAIN ORIENTED SILICON CORE.

2. Kumparan:

Untuk menghasilkan kekuatan dielektrik, Kumparan Trafo menggunakan bahan Enamel Wire class IW 180° dan menggunakan Isolasi dalam kumparan class F.

3. Baking Varnish:

Untuk lebih memberikan kekuatan mekanik terhadap getaran pada trafo, setelah proses pembungkusan trafo dg Isolasi kumparan, selanjutnya adalah Perendaman dengan bahan Baking Varnish class F, Trafo direndam dan dioven dalam suhu 150° C.

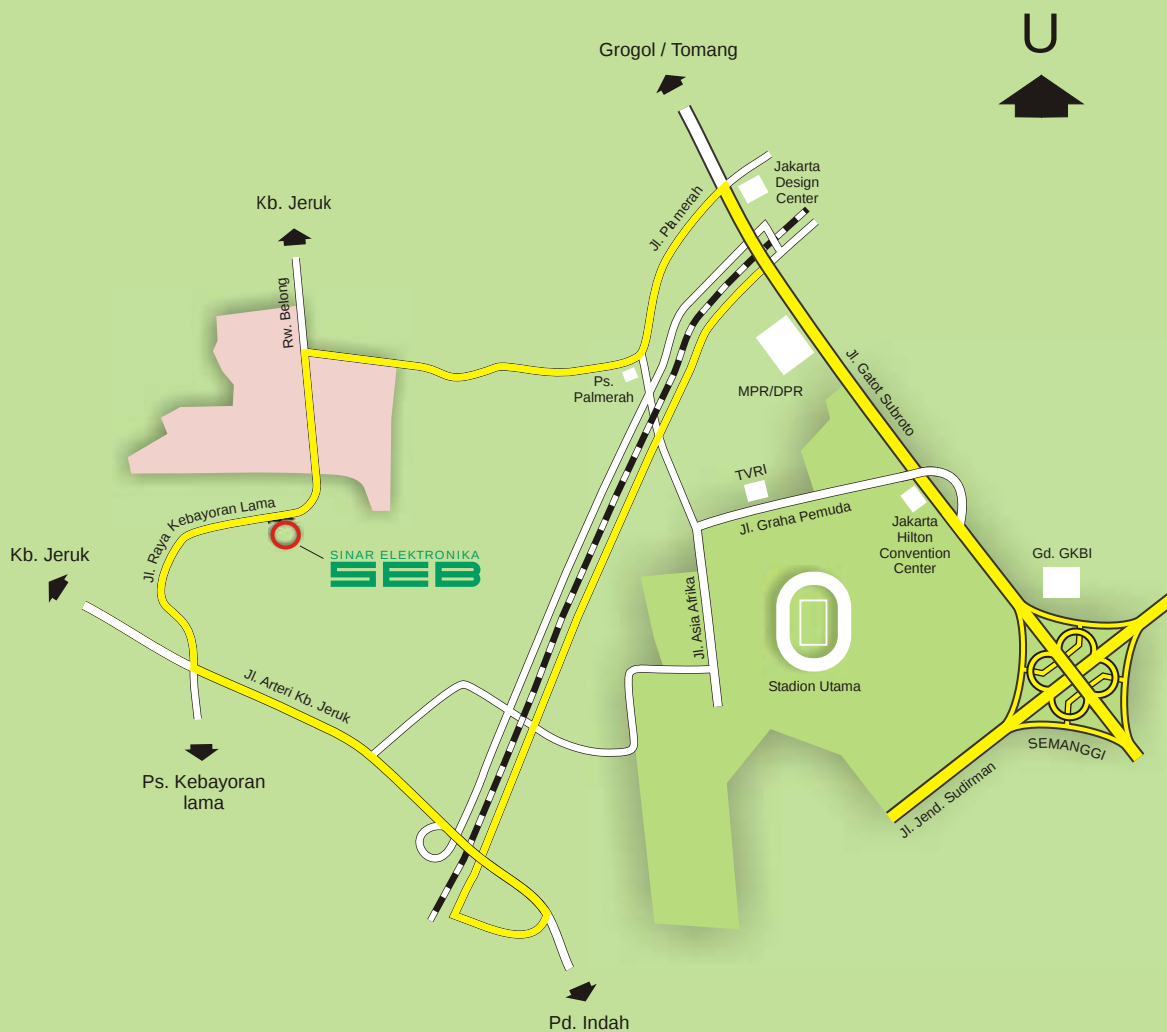
4. Pengujian:

- Merger Test, untuk menguji tahanan Isolasi.
- No Load Test, pengujian dalam keadaan beban kosong.
- Injection test, pengujian dengan menyuntikan tegangan 2.5 KV selama 1 menit.
- Sorted circuit test, pengujian dengan memberikan hubungan singkat.



Transformer

COMPANY NAME
Bukaka Teknik, PT
Cakra Nusantara, CV
Digdaya, PT
Elektro Maju Perkasa, PT
Exabb Energy Nusantara, PT
General Teknik, CV
Getra Gemilang Sukses Perkasa, PT
Hardaya Widya Graha, PT
Himalaya Transmeka,PT
Industira, PT
Kifa Citra Pratama, PT
Kontrol Ragam Indonesia, PT
Meiden Engineering Indonesia, PT
Mesindo Tekninsia, PT
Mitra Pratama Rakayasa, PT
Muliaglass, PT
Nikawa Textile Industry, PT
Nusatama Power Inti, PT
Pangrango, PT
Panorama, PT
Saciraya Tekindo, PT.
Schneider Indonesia, PT
Siemens Indonesia, PT
Sinar Murni Mujur, PT
Suryamas Elsindo Primatama, PT
Trimulia Sarana Agung, PT
Wahana Aselcom Utama, PT
Wiguna Sumber Sejahtera, PT



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