

MV CURRENT & VOLTAGE TRANSFORMERS

Voltage / Current / Ring Type

EA12 - EA24

OAN12 - OAN36

OANB 36 SERİSİ

EG12 - EG24

OGN24 - OGN36

EKAT & BUSHING

We engineer, we assure.

ELIMSAN MV MEASUREMENT TRANSFORMERS

Developed with Elimsan's perfect engineering, innovative technology and vast knowledge of its field, Measurement Transformers have IEC 61869 production standard and certified its quality and reliability after successfully passing KEMA and ICMET Lab tests. Measurement norms are at DIN German standards.

Plus, production is also available with ANSI NORM standards that are valid in USA, Canada standards, AS Australia Standards and the British Standards.

The main insulation material for Elimsan measurement transformer is Epoxy Resin. Through professional practices of Elimsan, the surface gets clean and ready for the process. The material is highly cohesive so it will never unstick, won't change in time and show no structural change over the years.

Silica based plate irons are especially developed for substations and used in Elimsan MV Transformers to minimize magnetic loss with oriented electrons and to maximize magnetic features. Thus, while magnetic features are kept at the top level, product efficiency increases.

Elimsan Transformer's primary winding material is purified electrolytic copper with increased conductivity up to 99.9%. H class enamel coated copper used for secondary winding provides perfect isolation. Metal locking plates are used for fixing the product and Secondary Terminal Caps are used for safety. Primary Busbars are brass or copper according to the current.

Elimsan makes no compromise on material quality, professional labor and R&D investments. Quality only increases day by day and Elimsan maintains its righteous competitive position at global markets.

Expert Engineering Reliable Products

Elimsan outmatches its rivals by being able to produce every product and component under the same roof. Metal Enclosed Modular Cells, Metal Clads, Gas Insulated Cells and all the components within these products are produced at Elimsan and also put on the market. Elimsan MV Transformers were designed many years ago for Elimsan products and through new technologies and experience, it gained a righteous seat at global markets.

Supplying top quality materials for its products, practicing meticulously, working flawlessly, developing innovative technology; Elimsan's Medium Voltage Transformers have superior electrical and mechanical durability. Elimsan engineering and technology brings the capability to produce transformers that fits different projects. This satisfies customer demands perfectly.

Elimsan Measurement Transformers

Through its high quality materials and meticulous practices, Elimsan Measurement Transformers flawlessly measures and assesses the incoming current. The assessment is reflected at the counter and directly affects the cost. Elimsan MV Transformers perform very precise measurements so it minimizes your expenditures and increases your profitability.

Elimsan Protective Transformers

It is crucial for protective transformers to be efficient and operate on full capacity so Elimsan's innovative technology, perfect engineering and high quality practices provide maximum safety to your systems, eliminates the burden of possible power cut costs and supports the cost saving of your enterprise.

MV CURRENT & VOLTAGE TRANSFORMERS

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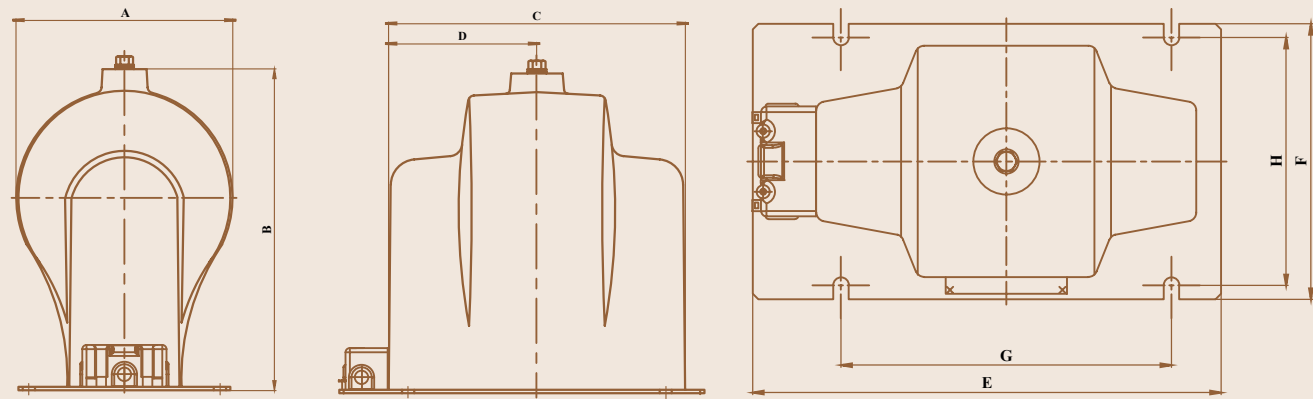
SOME OF OUR
REFERENCES

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TECHNICAL VALUES

	OGN24	OGN36
Highest voltage for equipment Um (rms) (kV)	24	36
Test voltages (kV)	24 / 50	70 / 170
Rated frequency (Hz)	50, 60	
Rated Primary Voltage Un[max.] (kV)	24 / $\sqrt{3}$	36 / $\sqrt{3}$
Secondary Voltage (V)	100 / $\sqrt{3}$ or 110 / $\sqrt{3}$ or 120 / $\sqrt{3}$	
Rated burden in class 0.2-0.5-1.0 (VA)	5-10-15-20-30-45-60	
Maximum rated burder for protection purpose in class 3P/6P (VA)	100	
Thermal limiting current for earth fault detection winding (A)	6	
Rated voltage factor [8h]	1.9Un	
Weight (kg)	40	55

DIMENSIONS (mm)



Type	A	B	C	D	E	F	G	H
OGN 24	210	319	300	150	425	250	300	225
OGN 36	255	374	345	172.5	440	250	300	225

Other specifications available on request.



OGN24 - OGN36
VOLTAGE TRANSFORMERS

Standard: IEC 61869-3, IEC 61869-5

OGN24

24kV

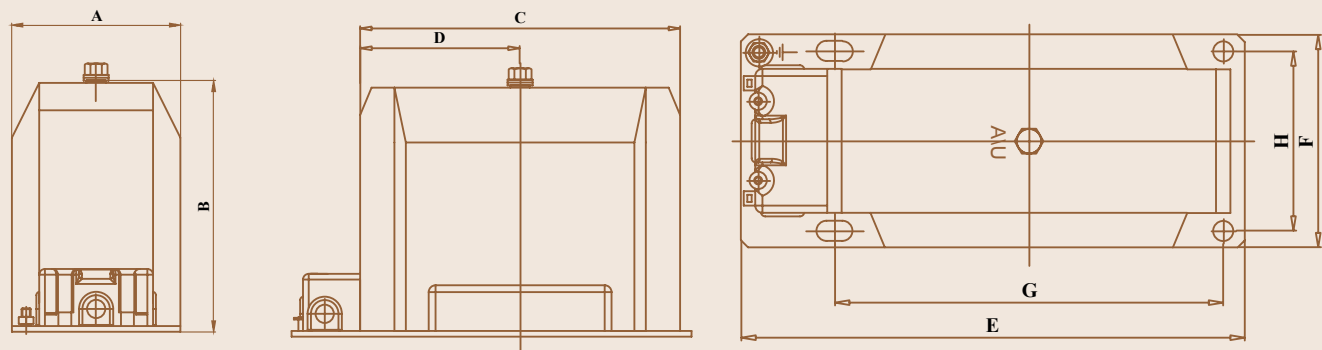
OGN36

36kV

TECHNICAL VALUES

	EG12	EG24
Highest voltage for equipment Um (rms) (kV)	12 - 17,5	24
Test voltages (kV)	28/75 - 38/95	50 / 125
Rated frequency (Hz)	50, 60	
Rated Primary Voltage Un[max.] (kV)	12 / $\sqrt{3}$ - 15 / $\sqrt{3}$	24 / $\sqrt{3}$
Secondary Voltage (V)	100 / $\sqrt{3}$ or 110 / $\sqrt{3}$ or 120 / $\sqrt{3}$	
Rated burden in class 0.2-0.5-1.0 (VA)	5-10-15-20-30-45-60	
Maximum rated burder for protection purpose in class 3P/6P (VA)	100	
Thermal limiting current for earth fault detection winding (A)	6	
Rated voltage factor [8h]	1.9Un	
Weight (kg)	25	34

DIMENSIONS (mm)



Type	A	B	C	D	E	F	G	H
EG 12	148	220	280	140	350	148	270	125
EG 24	178	280	300	150	360	178	280	150

Other specifications available on request.



EG12 - EG24

VOLTAGE TRANSFORMERS

Standard: IEC 61869-3, IEC 61869-5

EG12

EG24

12kV

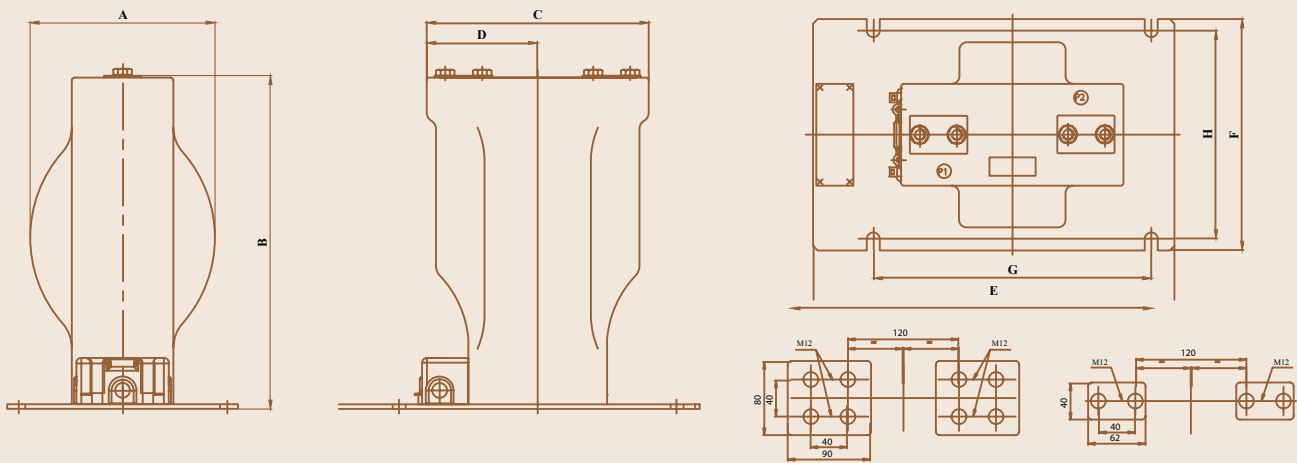
24kV

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TECHNICAL VALUES

	OAN12	OAN36
Highest voltage for equipment Um (rms) (kV)	12 - 17,5	36
Test voltages [kV]	28/75 - 38/95	70/170
Rated frequency [Hz]	50, 60	
Maximum rated primary current [A]	3000	
Secondary rated current [A]	1 or 5	
Rated short-time thermal current I _{th} [kA]	60 (max. 1000xI _n)	
Rated dynamic current I _{dyn}	2,5xI _{th}	
Weight (approx.) [kg]	20	30

DIMENSIONS (mm)



Type	A	B	C	D	E	F	G	H
OAN 12-2	190	262	238	119	365	148	270	125
OAN 12-3	184	256	238	119	365	148	270	128
OAN 36-1	220	361	245	122.5	390	250	300	225
OAN 36-2	200	360	240	120	390	250	300	225
OAN 36-3	230	366	280	140	390	250	300	225
OAN 36-4	245	391	315	157.5	390	250	300	225

Other specifications available on request.

OAN12 - OAN36
CURRENT TRANSFORMERS

Standard: IEC 61869-2

OAN12

12kV

OAN36

36kV



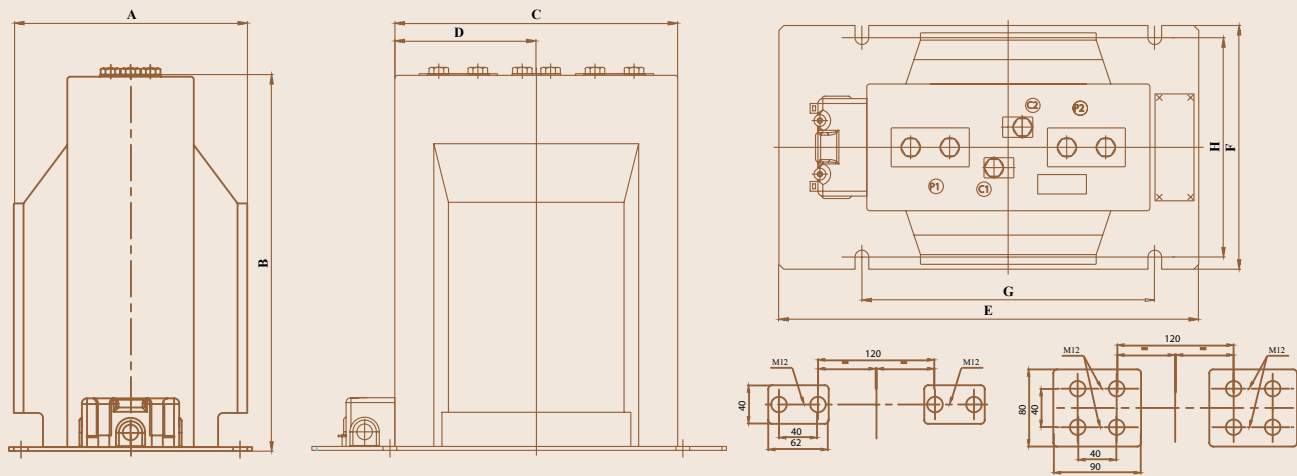
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TECHNICAL VALUES

OANB 36-2 OANB 36-3 OANB 36-7 OANB 36-9

Highest voltage for equipment Um (rms) (kV)	36			
Test voltages [kV]	70/170			
Rated frequency [Hz]	50, 60			
Maximum rated primary current [A]	3000			
Secondary rated current [A]	1 or 5			
Rated short-time thermal current I _{th} [kA]	60 (max. 1000xI _n)			
Rated dynamic current I _{dyn}	2,5xI _{th}			
Weight (approx.) [kg]	42	52	46	56

DIMENSIONS (mm)



Type	A	B	C	D	E	F	G	H
OANB 36-2	255	384	320	160	430	250	300	225
OANB 36-3	239	386	290	145	430	250	300	225
OANB 36-7	255	386	450	225	430	250	300	225
OANB 36-9	255	386	370	185	430	250	300	225

Other specifications available on request.



OANB36 SERIES
CURRENT TRANSFORMERS

Standard: IEC 61869-2

OANB36 SERIES

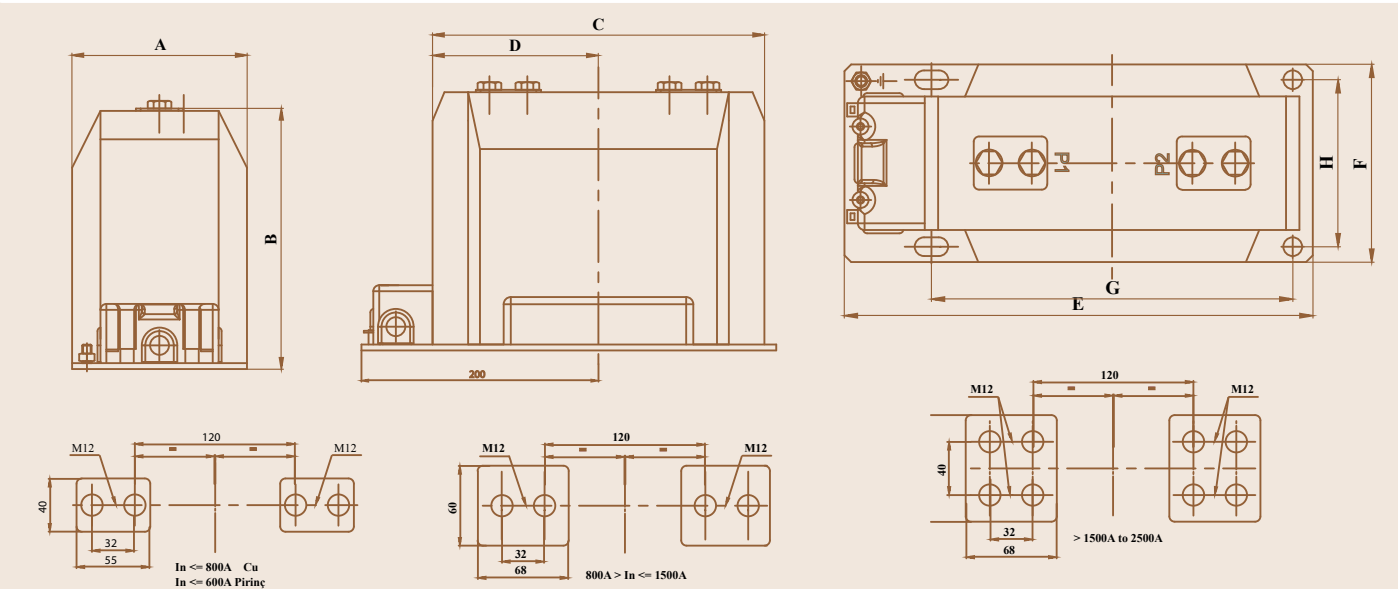
36kV

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TECHNICAL VALUES

TECHNICAL VALUES	EA12, EA12-2	EA12-3	EA24, EA24-2	EA24-3
Highest voltage for equipment Um (rms) (kV)	12 - 17,5		24	
Test voltages [kV]	28/75 - 38/95		70/170	
Rated frequency [Hz]	50, 60			
Maximum rated primary current [A]	3000			
Secondary rated current [A]	1 or 5			
Rated short-time thermal current I _{th} [kA]	60 (max. 1000xI _n)			
Rated dynamic current I _{dyn}	2,5xI _{th}			
Weight (approx.) [kg]	22	35	33	48

DIMENSIONS (mm)



Type	A	B	C	D	E	F	G	H
EA12	148	220	280	140	350	148	270	125
EA12-2	148	220	280	140	390	148	310	125
EA12-3	148	220	380	140	450	148	370	125
EA24	178	280	290	140	350	178	270	150
EA24-2	178	280	350	140	410	178	330	150
EA24-3	178	280	400	140	460	178	380	150

Other specifications available on request.

EA12 - EA24 SERIES
CURRENT TRANSFORMERS

Standard: IEC 61869-2

EA12

12kV

EA24

24kV

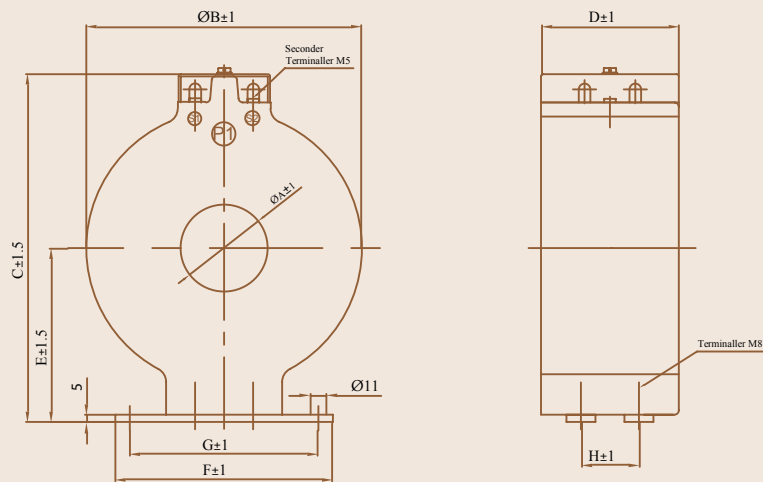


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TECHNICAL VALUES

Rated primary current Ipr [A]	40.....8000A
Rated secondary current Is [A]	1A, 5A
Rated frequency [Hz]	50, 60
Class rated burden [VA]	Acc. to customer requirement
Accuracy class	Acc. to customer requirement
Rated short-time thermal current (Ith)	min. 100*Ipr
Insulation class	E

DIMENSIONS (mm)



Type	A	B	C	D	E	F	G	H
EKAT-60/190-55	60	190	240	55	120	150	130	25
EKAT-60/190-95	60	190	240	95	120	150	130	40
EKAT-60/190-115	60	190	240	115	120	170	150	40
EKAT-80/190-55	80	190	240	55	120	150	130	25
EKAT-80/190-95	80	190	240	95	120	150	130	40
EKAT-80/190-115	80	190	240	115	120	170	150	40
EKAT-80/190-150	80	190	240	150	120	150	130	40
EKAT-100/190-55	100	190	240	55	120	150	130	25
EKAT-100/190-95	100	190	240	95	120	150	130	40
EKAT-100/190-115	100	190	240	115	120	170	150	40

Other specifications available on request.

EKAT SERIES
CURRENT TRANSFORMERS
Standard: IEC 61869-2

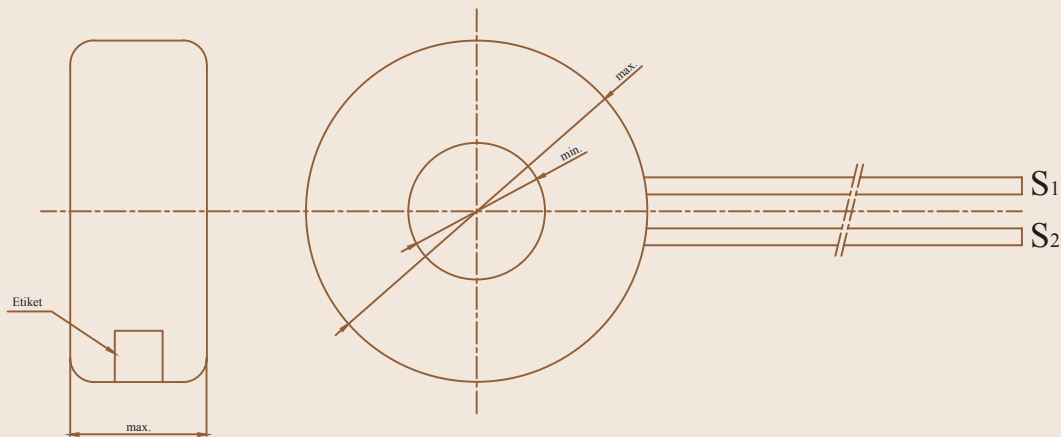


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TECHNICAL VALUES

Highest voltage for equipment Um (rms) (kV)	0.72
Rated power-frequency withstand voltage [kV]	3
Rated frequency [Hz]	50, 60
Primary rated current [A]	3000
Secondary rated current [A]	1 - 5
Rated short-time thermal current Ith	min. 100 x In
Insulation class	E

INSTALLATION



Other specifications available on request.

BUSHING
CURRENT TRANSFORMERS
Standard: IEC 61869-2



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QUALITY FOCUSED PRODUCTION



KEMA

Testing, Inspections
& Certification organisation



ICMET

Research-Development and Testing
National Institute for Electrical
Engineering



CESI

Consulting and testing services
for elec- tricity sector players
Engineering



OHSAS

Occupational Health and Safety



IEC

International Standards and Con-
formity Assessment for all electrical,
electronic and related technologies



ISO

TS EN ISO 9001 2008
TS EN ISO 17020 2012
TS EN ISO 17025 2010
TS EN ISO 14001

SOME OF OUR REFERENCES

TURKEY

PARTNER	
Teiaş projects	Metal Clad Switchgears
Asyaport	Metal Enclosed Switchgears & Gas Insulated Switchgears
İnönü University Solar Power Plant	Metal Clad Switchgears
Sedaş	Metal Enclosed Switchgears
Enerjisa	Metal Enclosed Switchgears
İçtaş	Metal Enclosed Switchgears
Edaş	Metal Enclosed Switchgears

GLOBAL

PARTNER	
Qatar KAHRAMAA	Metal Clad Switchgears
Myanmar	Metal Clad Switchgears
Nigeria	Metal Clad Switchgears & Metal Enclosed Switchgears
Vietnam	Metal Enclosed Switchgears
Romania	Metal Enclosed Switchgears
Azerbaijan	Measurement Transformers
Russia	Metal Enclosed Switchgears
Colombia	Measurement Transformers
Turkmenistan	Metal Enclosed Switchgears
Kosovo	Measurement Transformers
Taiwan	Measurement Transformers
Thailand	Metal Clad Switchgears
Palestine	Measurement Transformers

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