



Combined Instrument Transformer VT, CT (OIL-TYPE)



CONTENTS

MOF(Mold Type)	276
MOF(Oil Type)	288
Current Transformer (Oil Type)	292
Voltage Transformer (Oil Type)	296



전력수급용 계기용 변압 · 변류기

Combined Instrument Transformer



MOF/CTE-257

배전반용 / For Switchgear

MOLD형

한전용 / For KEPCO

■ 특징 / Feature

전력수급용 계기용 변압변류기는 전력량계, 무효전력량계 또는 최대수요전력량계와 조합하여 사용합니다.

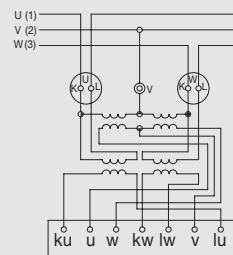
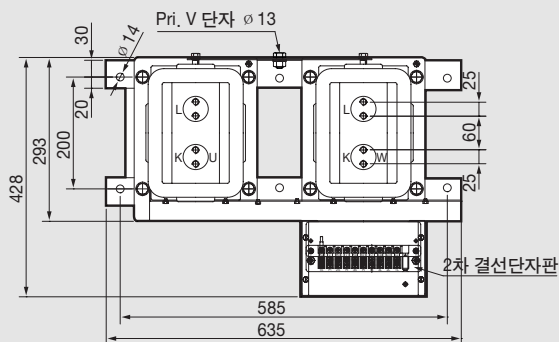
한국산업표준규격 KS C 1707(2011:전력수급용 계기용변성기) 및 KS 인증심사기준 개정에 따른 강화된 시험 항목을 모두 만족하여 신뢰성이 높고 안전성이 우수한 제품입니다.

Combined Instrument Transformer(Metering Out Fit) is used with the combination of Watt-Hour Meter, Var-hour(reactive energy) Meters or Maximum Demand Power Meters. Satisfying the Korean Industrial Standard KS C 1707(2011) and the revised and strengthened tests of KS authentication judgment standard, it has high reliability and safety.

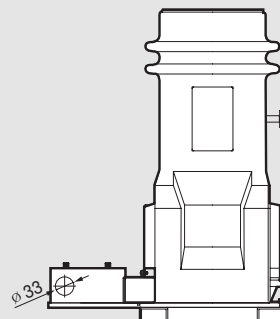
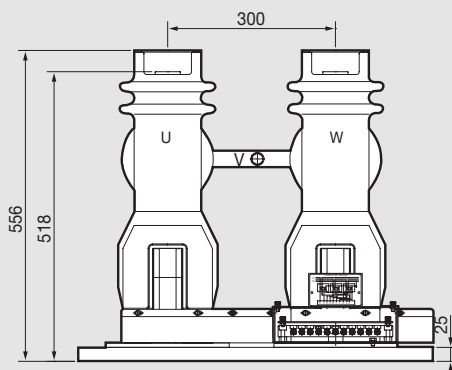
■ 사양 / Specification

최고회로전압 Max. Voltage	상수 Phase	전압 Voltage	전류 Current	과전류배수 Over current factor	계급 Class	부담 Burden	절연계급 Insulation Level	중량 Weight
7.2kV	3P3W	6600 / 110V	50/5A~15/5A	150In	0.5W	2×25VA	7.2/22/60kV	≒ 100kg
			20/5A~50/5A	75In				
			75/5A~250/5A	40In				
			300/5A~1500/5A	40In	0.3W			

■ 외형치수 / Dimension

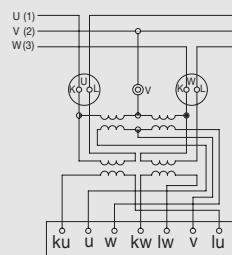
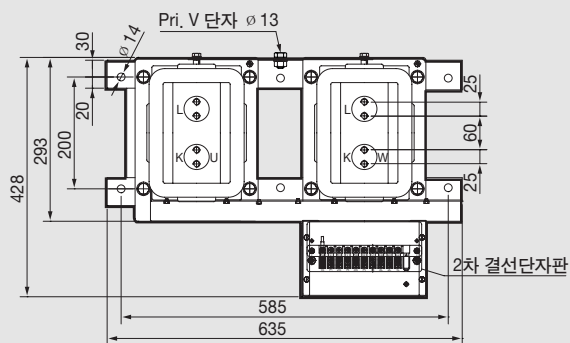


CIRCUIT DIAGRAM

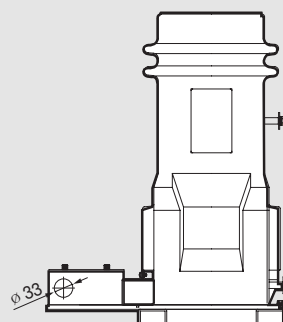
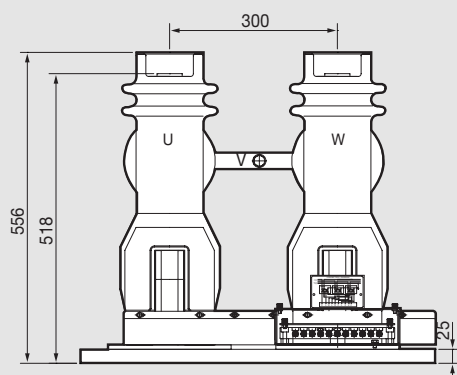


■ 외형치수/ Dimension

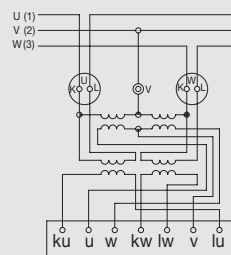
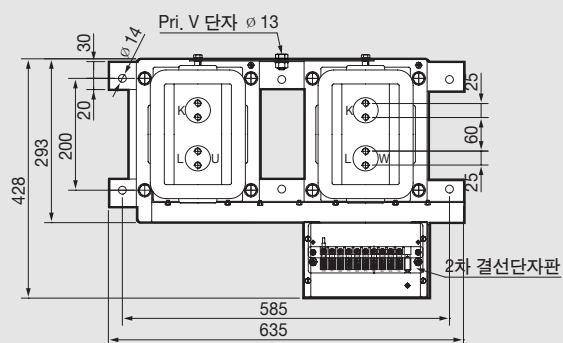
CTE-257K (Standard, K-side Type)



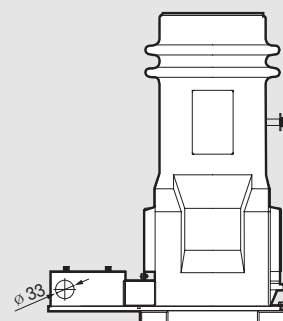
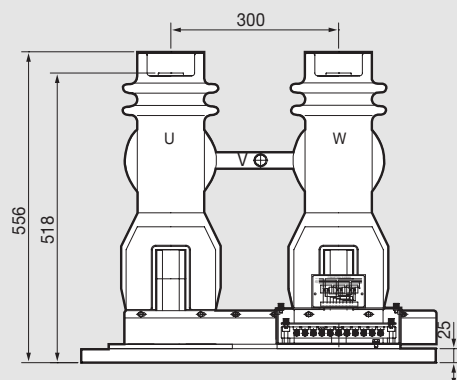
CIRCUIT DIAGRAM



CTE-257L (Order made, L-side Type)



CIRCUIT DIAGRAM





전력수급용 계기용 변압·변류기

Combined Instrument Transformer



MOF/CTE-25

MOLD형

배전반용 / For Switchgear

한전용 / For KEPCO

특징 / Feature

전력수급용 계기용 변압변류기는 전력량계, 무효전력량계 또는 최대수요전력량계와 조합하여 사용합니다.

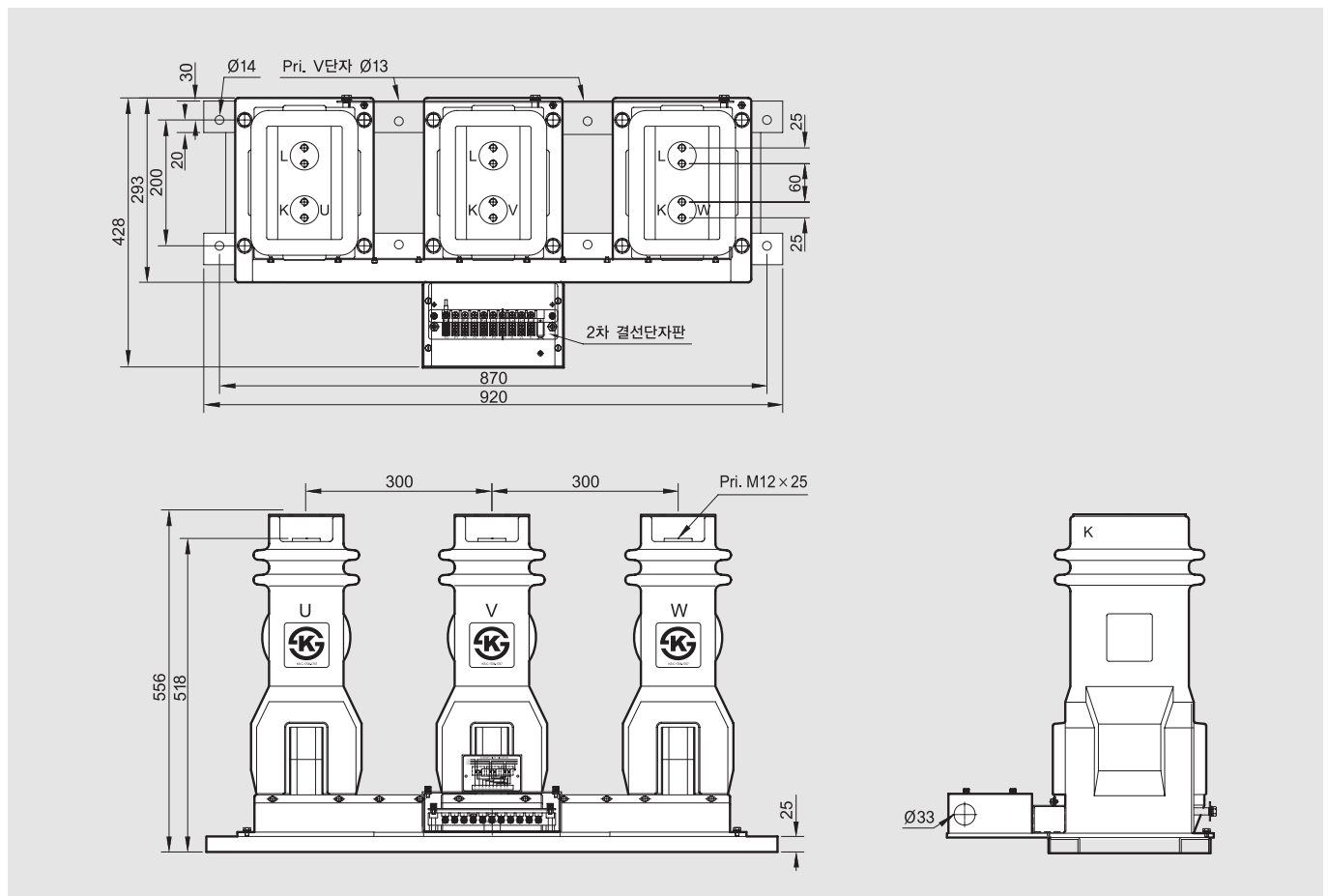
한국산업표준규격 KS C 1707(2011: 전력수급용 계기용변성기) 및 KS 인증심사기준 개정에 따른 강화된 시험 항목을 모두 만족하여 신뢰성이 높고 안전성이 우수한 제품입니다.

Combined Instrument Transformer(Metering Out Fit) is used with the combination of Watt-Hour Meter, Var-hour(reactive energy) Meters or Maximum Demand Power Meters. Satisfying the Korean Industrial Standard KS C 1707(2011) and the revised and strengthened tests of KS authentication judgment standard, it has high reliability and safety.

사양 / Specification

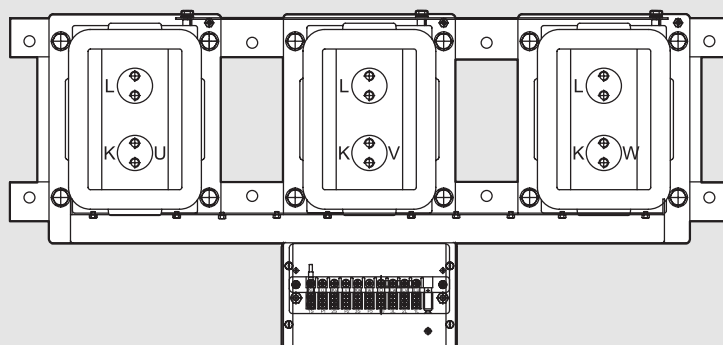
최고회로전압 Max. Voltage	상수 Phase	전압 Voltage	전류 Current	과전류배수 Over current factor	계급 Class	부담 Burden	절연계급 Insulation Level	중량 Weight	
25.8kV	3P4W	$\frac{22900}{\sqrt{3}} \bigg/ \frac{190}{\sqrt{3}} \text{ V}$	5/5A ~ 15/5A	150In	0.5W	3×25VA	25.8/50/150kV	≒ 135kg	
			20/5A ~ 50/5A	75In					
			75/5A ~ 250/5A	40In	0.3W				
			300/5A ~ 1500/5A	40In					

외형치수 / Dimension

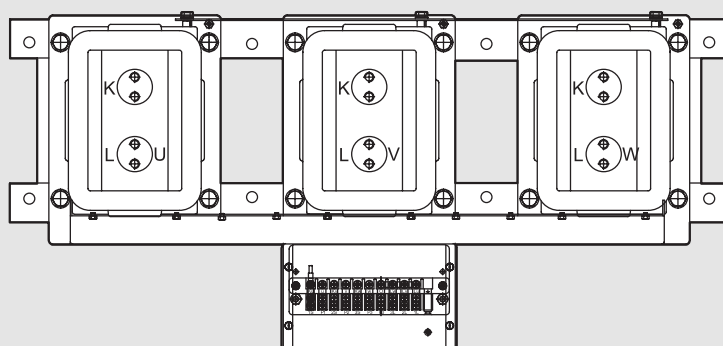


■ 외형치수/ Dimension

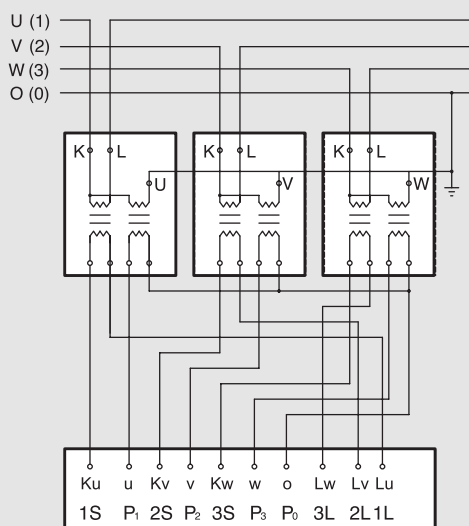
CTE-25K (Standard, K-side Type)



CTE-25L (Order made, L-side Type)



삼상결선도(Three Phase Connection)





전력수급용 계기용 변압·변류기

Combined Instrument Transformer



MOF/CTE-25M

MOLD형

배전반용 / For Switchgear

한전용 / For KEPCO

■ 특징 / Feature

전력수급용 계기용 변압변류기는 전력량계, 무효전력량계 또는 최대수요전력량계와 조합하여 사용합니다.

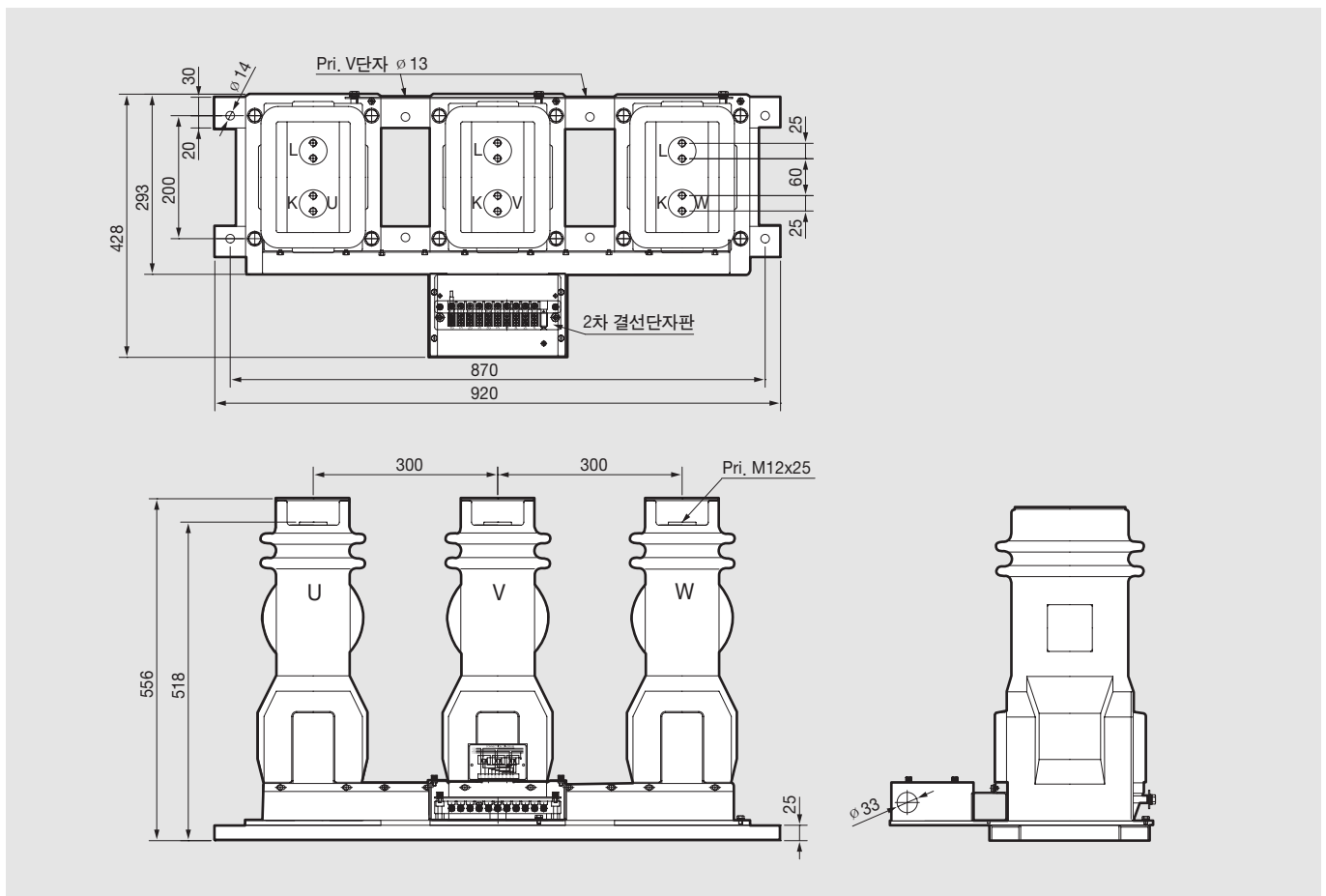
한국산업표준규격 KS C 1707(2011: 전력수급용 계기용변성기) 및 KS 인증심사기준 개정에 따른 강화된 시험 항목을 모두 만족하여 신뢰성이 높고 안전성이 우수한 제품입니다.

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■ 사양 / Specification

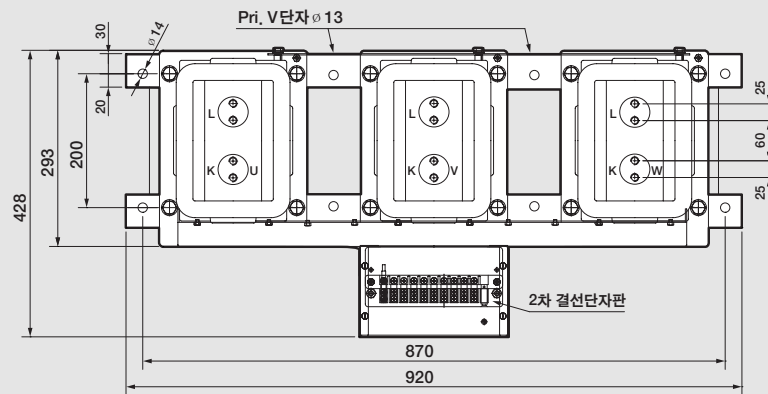
최고회로전압 Max. Voltage	상수 Phase	전압 Voltage	전류 Current	과전류배수 Over current factor	계급 Class	부담 Burden	절연계급 Insulation Level	중량 Weight
25.8kV	3P4W	229000 / $\sqrt{3}$ / 190/ $\sqrt{3}$ V	50/5A ~ 15/5A	150In	0.5W	3×25VA	25.8/50/150kV	≈ 136kg
			20/5A ~ 50/5A	75In				
			75/5A ~ 250/5A	40In				
			300/5A ~ 1500/5A	40In	0.3W			

■ 외형치수 / Dimension

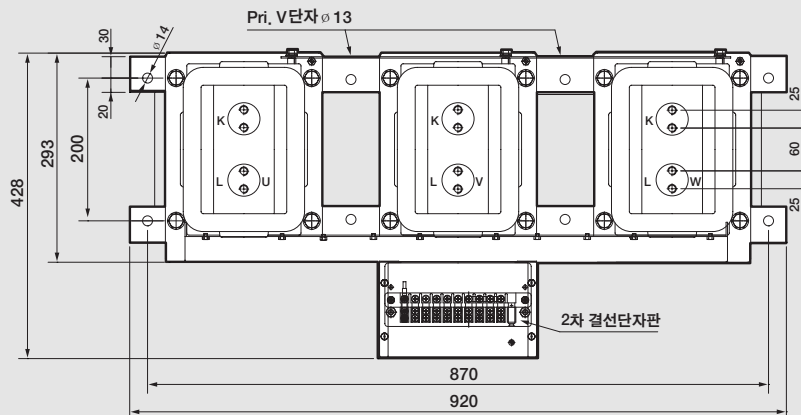


■ 외형치수/ Dimension

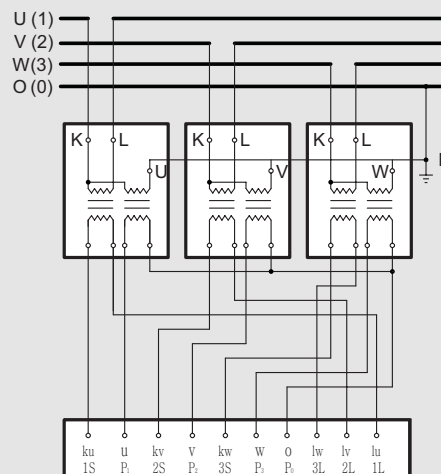
CTE-25MK (Standard, K-side Type)



CTE-25ML (Order made, L-side Type)



삼상결선도(Three Phase Connection)





전력수급용 계기용 변압 · 변류기

Combined Instrument Transformer



MOF/CTM-25

MOLD형

배전반용 / For Switchgear

한전용 / For KEPCO

■ 특징 / Feature

전력수급용 계기용 변압변류기는 전력량계, 무효전력량계 또는 최대수요전력량계와 조합하여 사용합니다.

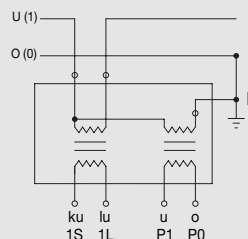
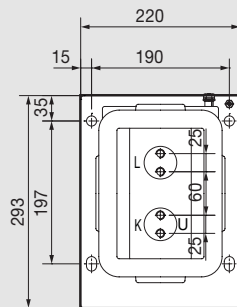
한국산업표준규격 KS C 1707(2011:전력수급용 계기용변성기) 및 KS 인증심사기준 개정에 따른 강화된 시험 항목을 모두 만족하여 신뢰성이 높고 안전성이 우수한 제품입니다.

Combined Instrument Transformer(Metering Out Fit) is used with the combination of Watt-Hour Meter, Var-hour(reactive energy) Meters or Maximum Demand Power Meters. Satisfying the Korean Industrial Standard KS C 1707(2011) and the revised and strengthened tests of KS authentication judgment standard, it has high reliability and safety.

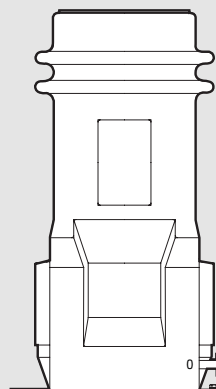
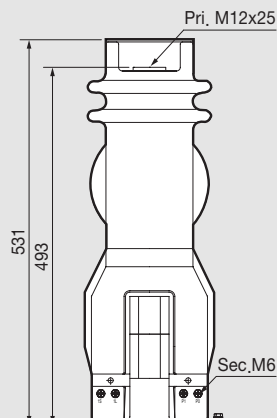
■ 사양 / Specification

최고회로전압 Max. Voltage	상수 Phase	전압 Voltage	전류 Current	과전류배수 Over current factor	계급 Class	부담 Burden	절연계급 Insulation Level	중량 Weight	
25.8kV	1P	229000 / $\sqrt{3}$ / 190/ $\sqrt{3}$ V	50/5A ~ 15/5A	150In	0.5W	25VA	25.8/50/150kV	≒ 42kg	
			20/5A ~ 50/5A	75In					
			75/5A ~ 250/5A	40In	0.3W				
			300/5A ~ 1500/5A	40In					

■ 외형치수 / Dimension

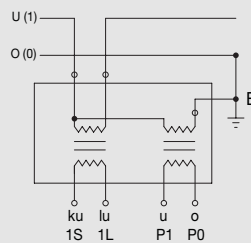
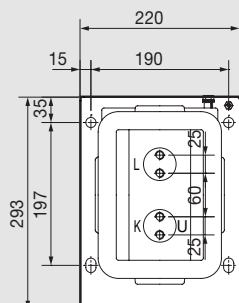


CIRCUIT DIAGRAM

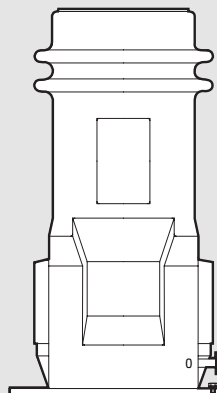
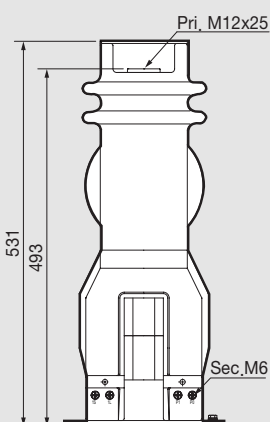


■ 외형치수/ Dimension

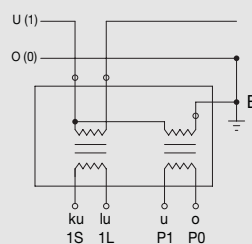
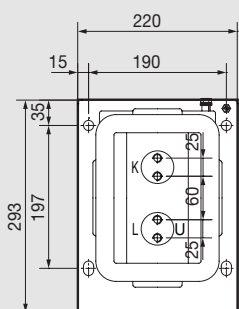
CTM-25K (Standard, K-side Type)



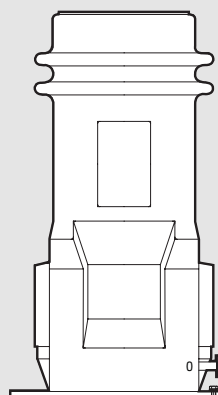
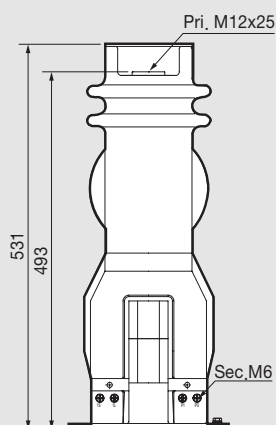
CIRCUIT DIAGRAM



CTM-25L (Order made, L-side Type)



CIRCUIT DIAGRAM





전력수급용 계기용 변압·변류기(송·수전겸용)

Combined Instrument Transformer



MOF/CTE-25SR

한전용/For KEPCO

송·수전겸용

■ 특징/Feature

전력수급용 계기용 변압변류기는 전력량계, 무효전력량계 또는 최대수요전력량계와 조합하여 사용합니다.

특히 기존 MOF와 달리 송·수전(1조) 용으로 설치 가능하여 비용이 절감되며, 설치공간이 감소됩니다.

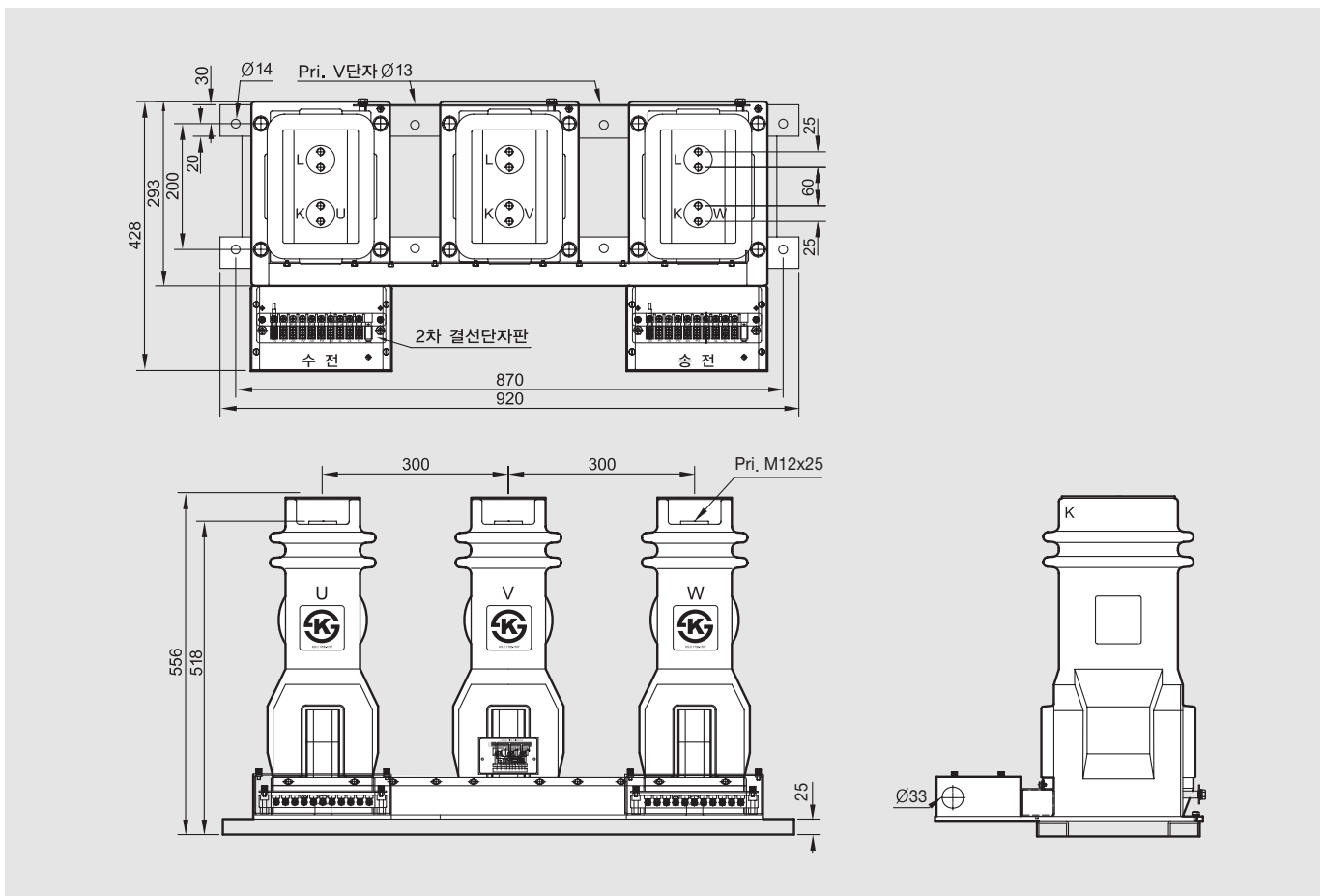
Combined Instrument Transformer(Metering Out Fit) is used with the combination of Watt-Hour Meter, Var-hour(reactive energy) Meter or Maximum Demand Power Meter.

Compared to the competitors, our Combined Instrument Transformer(Measuring Out Fit) can save the space and costs.

■ 사양/Specification

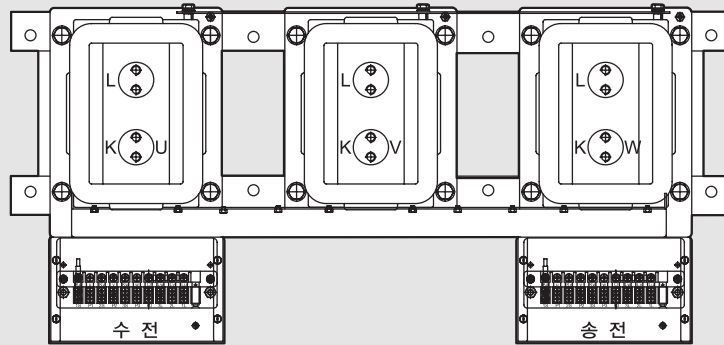
최고회로전압 Max. Voltage	상수 Phase	전압 Voltage	전류 Current	과전류배수 Over current factor	계급 Class	부담 Burden	절연계급 Insulation Level	중량 Weight	
25.8kV	3P4W	$\frac{22900}{\sqrt{3}} \bigg/ \frac{190}{\sqrt{3}} \text{ V}$	5/5A ~ 15/5A	150In	0.5W	3×25VA	25.8/50/150kV	≒ 135kg	
			20/5A ~ 50/5A	75In					
			75/5A ~ 250/5A	40In	0.3W				
			300/5A ~ 1500/5A	40In					

■ 외형치수/Dimension

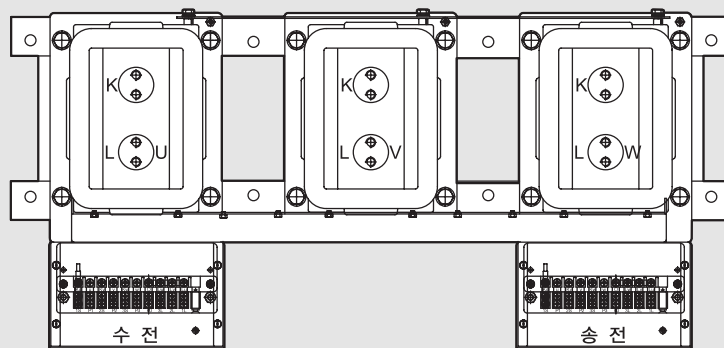


■ 외형치수/ Dimension

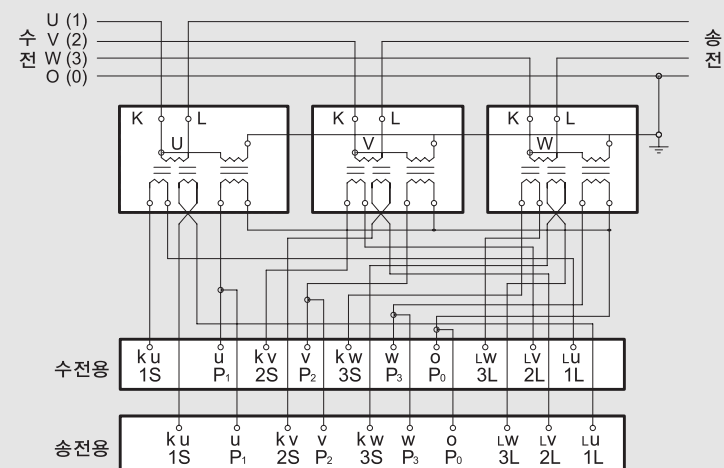
CTE-25SRK (Standard, K-side Type)



CTE-25SRL (Order made, L-side Type)



삼상결선도(Three Phase Connection)





계기용 변압·변류기

Combined Instrument Transformer



MOF/CTE-36

배전반용 / For Switchgear

MOLD형

■ 특징 / Feature

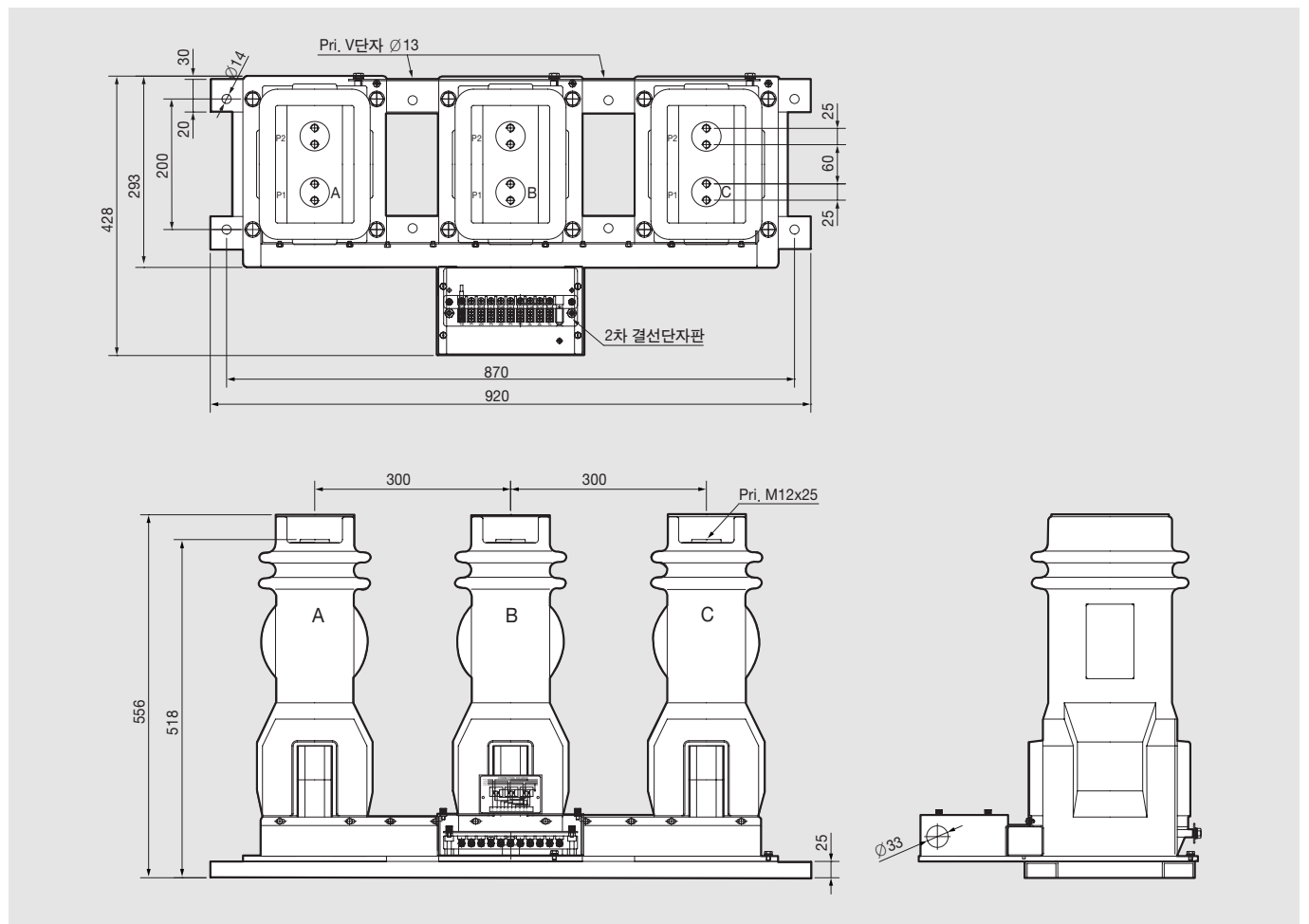
계기용 변압변류기는 국제 규격 IEC 61869-4에 강화된 시험 항목을 모두 만족하여 신뢰성이 높고 안전성이 우수한 제품입니다. 타사 제품에 비해 비교적 소형, 경량으로 설치 공간 확보와 설치가 용이합니다.

Instrument Current Transformer is a product with high reliability, excellent safety and meets all the enhanced test standards of IEC 61869-4. Compared to the other company's products, it is small and light, very convenient to secure the space and easy to install.

■ 사양 / Specification

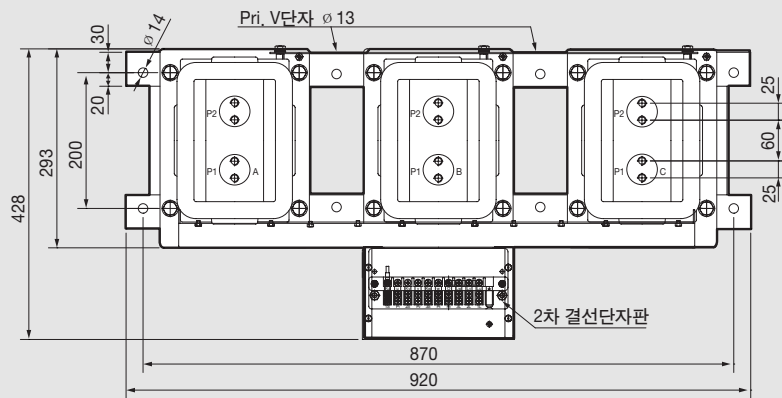
최고회로전압 Max. Voltage	상수 Phase	전압 Voltage	전류 Current	과전류배수 Over current factor	계급 Class	부담 Burden	절연계급 Insulation Level	중량 Weight(kg)
36kV	3P4W	33000 / $\sqrt{3}$ / 110/ $\sqrt{3}$ V	5/5 ~ 750/5A	40In	0.3 or 0.5	3×25VA	36/70/170kV	≒ 135kg

■ 외형치수 / Dimension

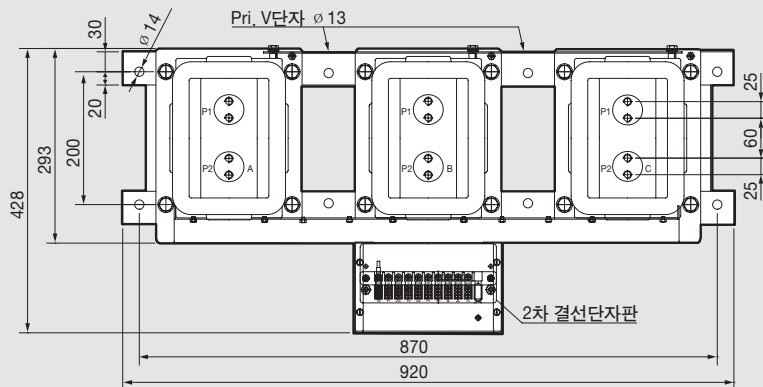


■ 외형치수/ Dimension

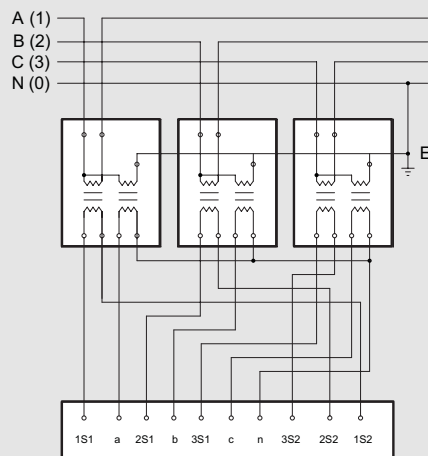
CTE-36K (Standard, K-side Type)



CTE-36L (Order made, L-side Type)



삼상결선도(Three Phase Connection)



CIRCUIT DIAGRAM



전력수급용 계기용 변압변류기

Oil Filled Type Combined Instrument Transformer



MOF/CTOM-25

배전반용 / For Switchgear

한전용 / For KEPCO

특징 / Feature

전력수급용 계기용 변압변류기는 전력량계, 무효전력량계 또는 최대수요전력량계와 조합하여 사용합니다.

타사 제품에 비해 비교적 소형, 경량으로 설치 공간 확보와 설치가 용이합니다.

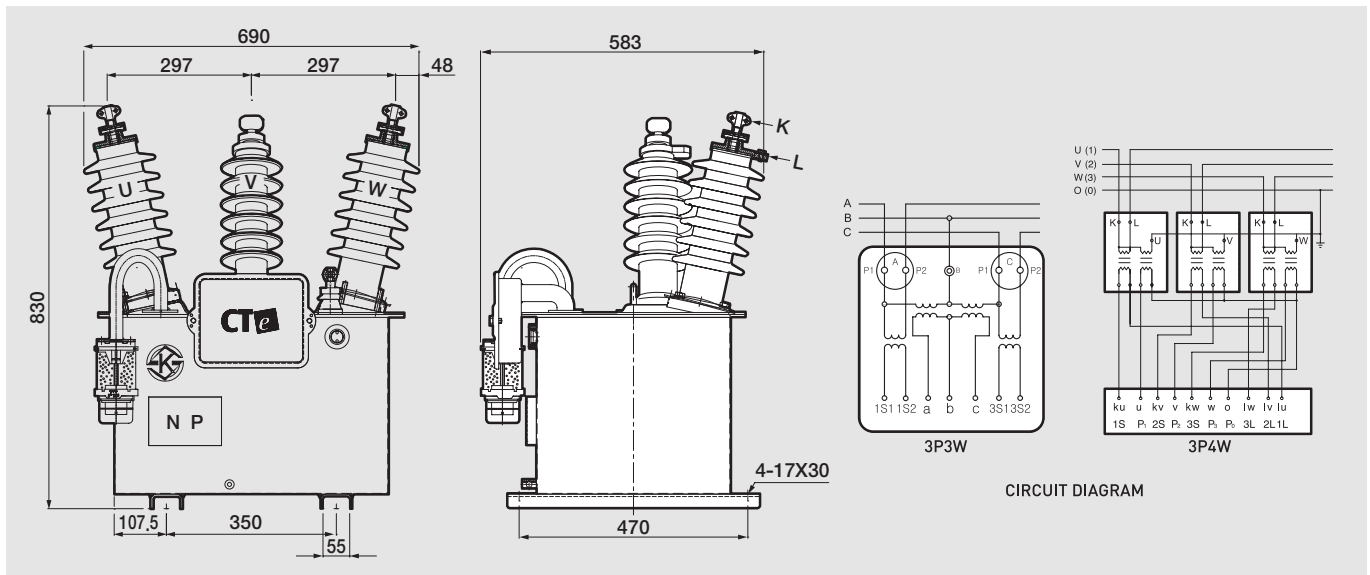
Combined Instrument Transformer(Metering Out Fit) is used with the combination of Watt-Hour Meter, Var-hour(reactive energy) Meter or Maximum Demand Power Meter.

Compared to the other company's products, it is small and light, very convenient to secure the space and easy to install.

사양 / Specification

최고회로전압 Max. Voltage	상수 Phase	전압 Voltage	전류 Current	과전류배수 Over current factor	계급 Class	부담 Burden	절연계급 Insulation Level	중량 Weight
7.2kV	3P3W	6600 / 110V	5/5A ~ 40/5A	75In	0.5W	2×25VA	7.2/22/60kV	≒ 160kg
			75/5A ~ 400/5A	40In	0.3W			
12kV	3P3W	11000 / 110V	5/5A ~ 15/5A	150In	0.5	2x25VA	12/28/75kV	≒ 160kg
			20/5A ~ 50/5A	75In				
			75/5A ~ 250/5A	40In	0.3			
			300/5A ~ 750/5A					
12kV	3P4W	$\frac{11000}{\sqrt{3}} \bigg/ \frac{190}{\sqrt{3}} \text{ V}$	5/5A ~ 15/5A	150In	0.5	2x25VA	12/28/75kV	≒ 160kg
			20/5A ~ 50/5A	75In				
			75/5A ~ 250/5A	40In	0.3			
			300/5A ~ 750/5A					
25.8kV	3P4W	$\frac{22900}{\sqrt{3}} \bigg/ \frac{190}{\sqrt{3}} \text{ V}$	5/5A ~ 15/5A	150In	0.5W	3×25VA	25.8/50/150kV	≒ 160kg
			20/5A ~ 50/5A	75In				
			75/5A ~ 250/5A	40In	0.3W			
			300/5A ~ 400/5A					

외형치수 / Dimension



※ 본 도면의 치수공차 ±5% (Dimension tolerance : ±5%)

※ 본 도면의 기기 및 부품의 취부 위치와 치수는 다소 변경 될 수 있음 (Dimension and weight will be changed slightly after detail design.)

PT. KORTECH ANUGERAH INDONESIA | 0812-947-9297 | itsmom113@hotmail.com



계기용 변압변류기

Oil Filled Type Combined Instrument Transformer



CTOM-36

■ 특징/Feature

계기용 변압변류기는 국제 규격 IEC 61869-4에 강화된 시험 항목을 모두 만족하여 신뢰성이 높고 안전성이 우수한 제품입니다.

타사 제품에 비해 비교적 소형, 경량으로 설치 공간 확보와 설치가 용이합니다.

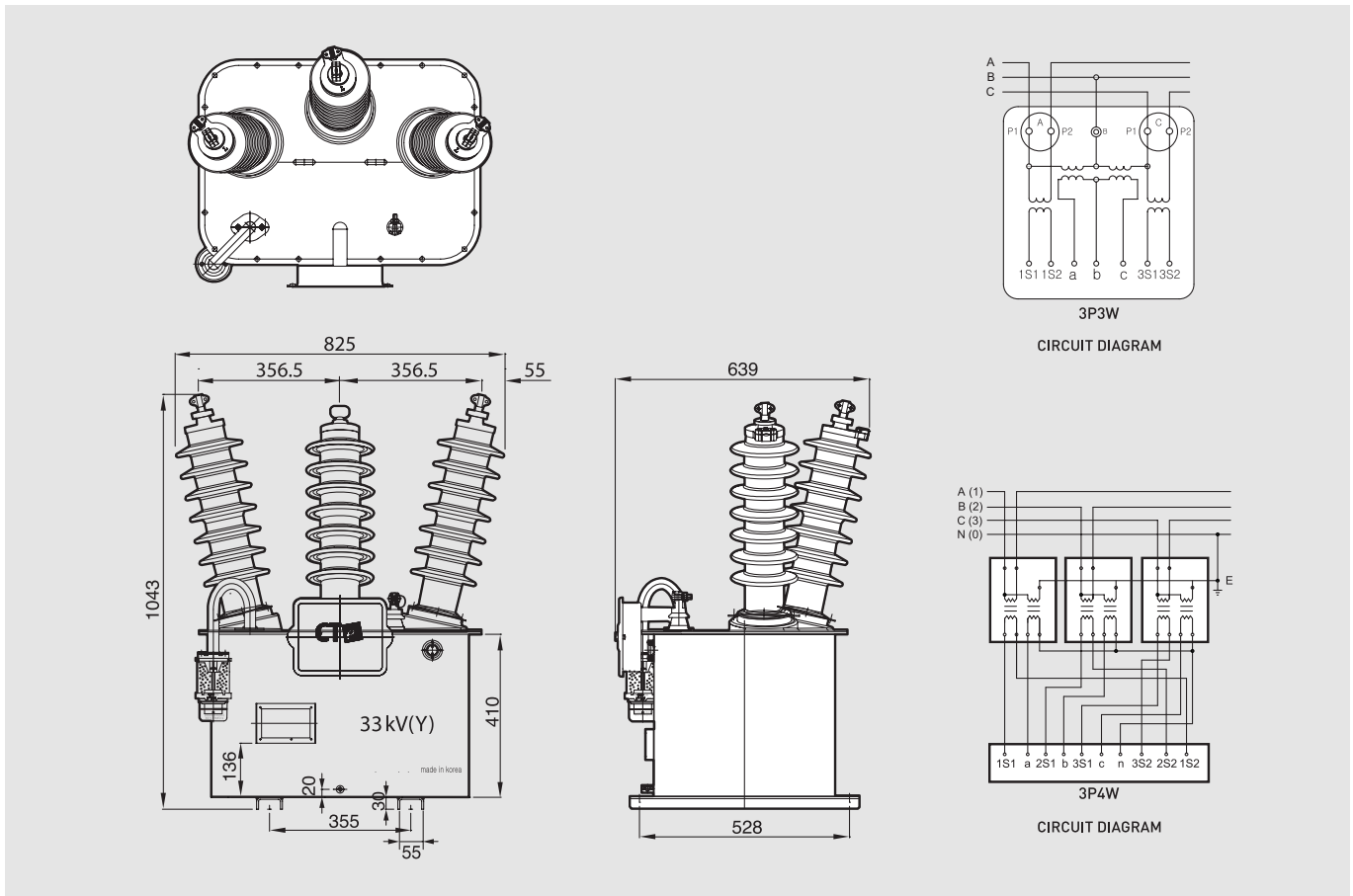
Instrument Current Transformer is a product with high reliability, excellent safety and meets all the enhanced test standards of IEC61869-4.

Compared to the other company's products, it is small and light, very convenient to secure the space and easy to install.

■ 사양/Specification

최고회로전압 Max. Voltage	상수 Phase	전압 Voltage	전류 Current	과전류배수 Over current factor	계급 Class	부담 Burden	절연계급 Insulation Level	중량 Weight
36kV	3P3W	33000/110V	5/5A ~ 750A	40In	0.3 or 0.5	2×25VA	36/70/170kV	≒ 235kg
36kV	3P4W	$\frac{33000}{\sqrt{3}} / \frac{110}{\sqrt{3}} \text{ V}$				3×25VA		

■ 외형치수/Dimension



※ 본 도면의 치수공차 ±5% (Dimension tolerance : ±5%)

※ 본 도면의 기기 및 부품의 치수 및 위치는 다소 변경 될 수 있음 (Dimension and weight will be changed slightly after detail design.)

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Products Guide _ 289

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MOF



계기용 변압변류기

Oil Filled Type Combined Instrument Transformer



CTOM-36124

■ 특징/Feature

계기용 변압변류기는 국제 규격 IEC 61869-4에 강화된 시험 항목을 모두 만족하여 신뢰성이 높고 안전성이 우수한 제품입니다.

타사 제품에 비해 비교적 소형, 경량으로 설치 공간 확보와 설치가 용이합니다.

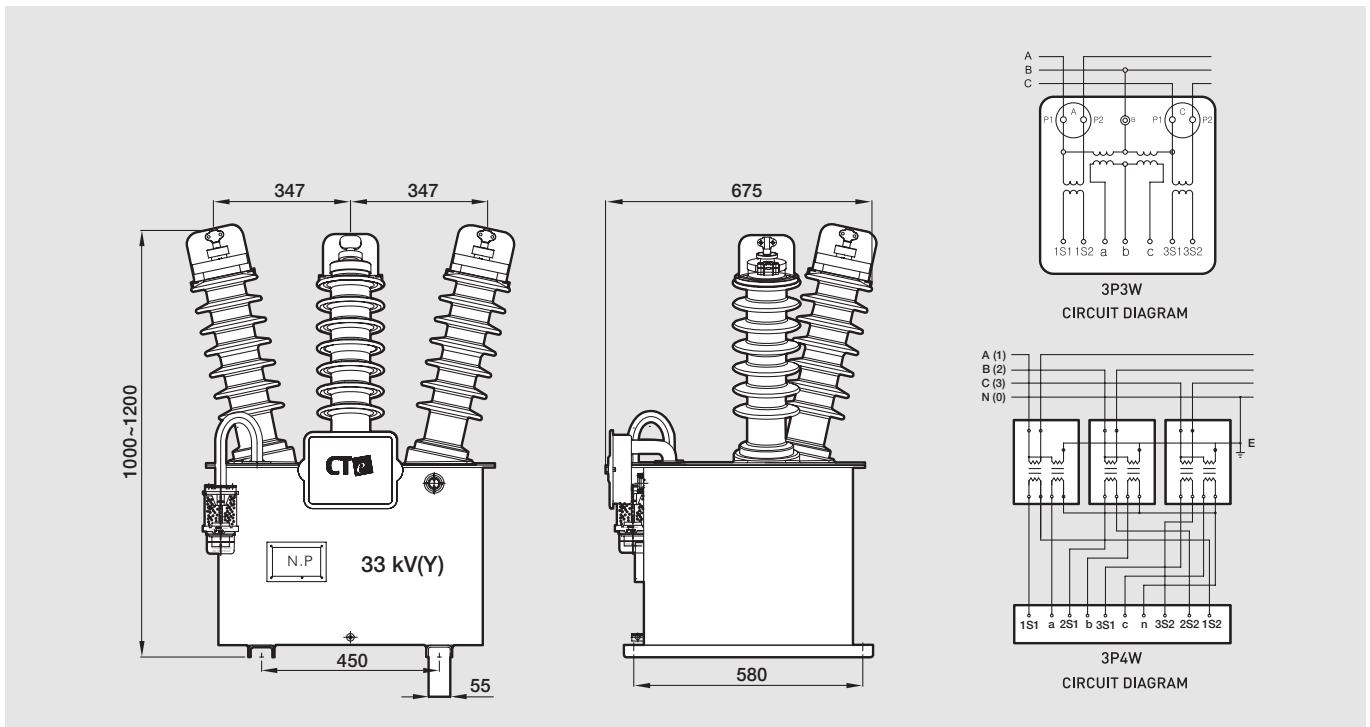
Instrument Current Transformer is a product with high reliability, excellent safety and meets all the enhanced test standards of IEC61869-4.

Compared to the other company's products, it is small and light, very convenient to secure the space and easy to install.

■ 사양/Specification

최고회로전압 Max. Voltage	상수 Phase	전압 Voltage	전류 Current	과전류배수 Over current factor	계급 Class	부담 Burden	절연계급 Insulation Level	중량 Weight
36kV	3P3W	33000/110V	5/5A ~ 750/5A	40In	0.3 or 0.5	2×25VA	36/70/170kV	≒ 260kg
36kV	3P4W	$\frac{33000}{\sqrt{3}} / \frac{110}{\sqrt{3}} \text{ V}$				3×25VA		

■ 외형치수/Dimension



※ 본 도면의 치수공차 ±5% (Dimension tolerance : ±5%)

※ 본 도면의 계기 및 부품의 취부 위치와 치수는 다소 변경 될 수 있음 (Dimension and weight will be changed slightly after detail design.)

■ 사양 / Specification

용도 Service	단시간 전류 (Ith) Short time Current	변류비(Current Ratio)		KS C 1706		JEC 1201			IEC 61869-2		
		단일비 / Single	이중비 / Double	Class	Burden	Class	Burden	Over Current Factor	Class	Burden	Over Current Factor
Measuring (CTOM-36124)	300In	5/5~200/5	10-5/5~200-100/5	1.0	15VA	-	-	-	1.0	15VA	FS 5 FS 10 (OPTION)
	8kA	20/5~750/5	40-20/5~600-300/5								
	12.5kA	25/5~750/5	50-25/5~600-300/5								
	25kA	50/5~750/5	100-50/5~600-300/5								
	300In	10/5~200/5	20-10/5~200-100/5	0.5 1.0	15VA 40VA	-	-	-	0.5 1.0	15VA 40VA	FS 5 FS 10 (OPTION)
	8kA	25/5~750/5	50-25/5~600-300/5								
	12.5kA	35/5~750/5	70-35/5~600-300/5								
	25kA	70/5~750/5	140-70/5~600-300/5								
Relaying (CTOM-36124)	300In	5/5~200/5	10-5/5~200-100/5	-	-	1P	15VA	n)10	5P or 10P	15VA	n)10
	8kA	20/5~750/5	40-20/5~600-300/5								
	12.5kA	25/5~750/5	50-25/5~600-300/5								
	25kA	50/5~750/5	100-50/5~600-300/5								
	150In	5/5~400/5	10-5/5~400-200/5	-	-	1P	15VA 40VA	n)20 n)10	5P or 10P	30VA	n)20 n)10
	8kA	25/5~750/5	50-25/5~600-300/5								
	12.5kA	35/5~750/5	70-35/5~600-300/5								
	25kA	70/5~750/5	140-70/5~600-300/5								
	8kA	35/5~750/5	70-35/5~600-300/5	-	-	1P	40VA	n)20	5P or 10P	30VA	n)20
	12.5kA	50/5~750/5	100-50/5~600-300/5								
	25kA	100/5~750/5	200-100/5~600-300/5								



계기용 변류기

Oil Filled Type Current Transformer



CTOC-25124

■ 특징 / Feature

계기용 변류기는 국제 규격 IEC 61869-2에 강화된 시험 항목을 모두 만족하여 신뢰성이 높고 안전성이 우수한 제품입니다.

타사 제품에 비해 비교적 소형, 경량으로 설치 공간 확보와 설치가 용이합니다.

Instrument Current Transformer is a product with high reliability, excellent safety and meets all the enhanced test standards of IEC61869-2.

Compared to the other company's products, it is small and light, very convenient to secure the space and easy to install.

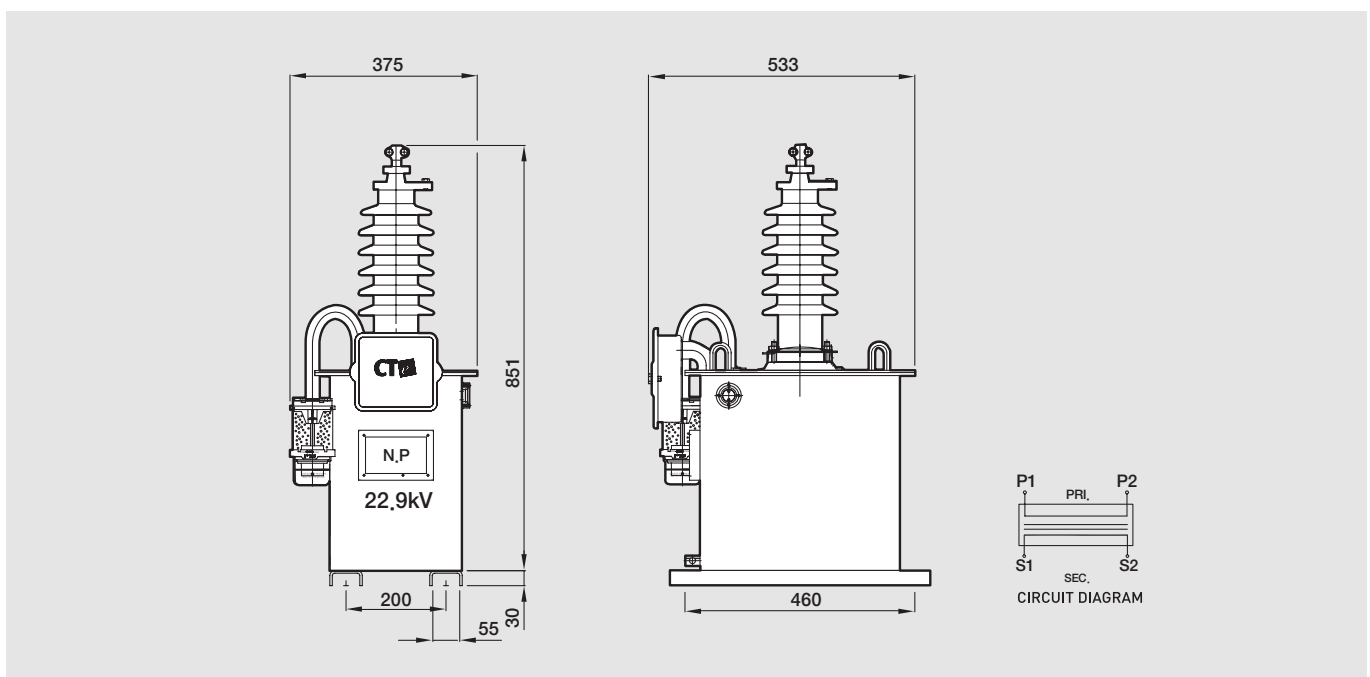
※ Note: Spec에 따라 외형치수가 변경될 수 있음

■ 사양 / Specification

규격 / Standard	KS C 1706	IEC 61869-2	JEC 1201
최고회로전압 / Max. Voltage	25.8kV	24kV	23kV
절연계급 / Insulation Level	25.8 / 50 / 150kV	24 / 50 / 125kV	23 / 50 / 150kV
단시간 전류 / Short time Current Max.kA	40In (Max. 40kA/1sec)		
정격1차전류 / Rated Primary Current	5~2000A or 2000A		
정격2차전류 / Rated Secondary Current	5 or 1A		
정격부담 / Rated Burden	15 or 40VA		
오차계급 / Accuracy Class	0.5, 1.0, 5P10, 5P20		
정격연속 열전류 / Rated Continuous Thermal Current	1.2In		
주파수 / Frequency	60 or 50Hz		
중량 / Weight(kg)	≈ 90kg		

※최고회로전압 12, 17.5, 36kV 사양 제작 가능합니다.

■ 외형치수 / Dimension



※ 본 도면의 치수공차 ±5% (Dimension tolerance : ±5%)

※ 본 도면의 계기 및 부품의 취부 위치와 치수는 다소 변경 될 수 있음 (Dimension and weight will be changed slightly after detail design.)

■ 사양 / Specification

용도 Service	단시간 전류 (Ith) Short time Current	변류비(Current Ratio)		KS C 1706		JEC 1201			IEC 61869-2		
		단일비 / Single	이중비 / Double	Class	Burden	Class	Burden	Over Currnet Factor	Class	Burden	Over Current Factor
Measuring (CTOC-25124)	300In	5/5~200/5	10-5/5~200-100/5	1.0	15VA	-	-	-	1.0	15VA	FS 5 FS 10 (OPTION)
	8kA	20/5~2000/5	40-20/5~2000-1000/5								
	12.5kA	25/5~2000/5	50-25/5~2000-1000/5								
	25kA	50/5~2000/5	100-50/5~2000-1000/5								
	300In	10/5~200/5	20-10/5~200-100/5	0.5 1.0	15VA 40VA	-	-	-	0.5 1.0	15VA 40VA	FS 5 FS 10 (OPTION)
	8kA	25/5~2000/5	50-25/5~2000-1000/5								
	12.5kA	40/5~2000/5	80-40/5~2000-1000/5								
	25kA	80/5~2000/5	160-80/5~2000-1000/5								
Relaying (CTOC-25124)	300In	5/5~200/5	10-5/5~200-100/5	-	-	1P	15VA	n)10	5P or 10P	15VA	n)10
	8kA	20/5~2000/5	40-20/5~2000-1000/5								
	12.5kA	25/5~2000/5	50-25/5~2000-1000/5								
	25kA	50/5~2000/5	100-50/5~2000-1000/5								
	150In	5/5~400/5	10-5/5~400-200/5	-	-	1P	15VA 40VA	n)20 n)10	5P or 10P	30VA	n)20 n)10
	8kA	25/5~2000/5	50-25/5~2000-1000/5								
	12.5kA	40/5~2000/5	80-40/5~2000-1000/5								
	25kA	80/5~2000/5	160-80/5~2000-1000/5								
	8kA	40/5~2000/5	80-40/5~2000-1000/5	-	-	1P	40VA	n)20	5P or 10P	30VA	n)20
	12.5kA	50/5~2000/5	100-50/5~2000-1000/5								
	25kA	100/5~2000/5	200-100/5~2000-1000/5								
2 Core Single Ratio C.T (CTOC-25124)	40In	5~1500/5-5	10-5/5-5~1500-750/5-5	-	-	1.0/1P	15/15	n)10	1.0/5P	15/15	n)10
	75In	5~800/5-5	10-5/5-5~800-400/5-5								
	150In	5~400/5-5	10-5/5-5~400-200/5-5								
	300In	10~200/5-5	20-10/5-5~200-100/5-5								
	8kA	40~2000/5-5	80-40/5-5~2000-1000/5-5	-	-	1.0/1P	15/15 40/40	n)20 n)10	1.0/5P	15/15 30/30	n)20 n)10
	12.5kA	50~2000/5-5	100-50/5-5~2000-1000/5-5								
	25kA	100~2000/5-5	200-100/5-5~2000-1000/5-5								
	40In	10~1500/5-5	20-10/5-5~1500-750/5-5								
	8kA	80~2000/5-5	160-80/5-5~2000-1000/5-5								
	12.5kA	100~2000/5-5	200-100/5-5~2000-1000/5-5								
	25kA	200~2000/5-5	400-200/5-5~2000-1000/5-5								

G

OIL TYPE CT



계기용 변류기

Oil Filled Type Current Transformer



CTOC-36286

■ 특징/Feature

계기용 변류기는 국제 규격 IEC 61869-2에 강화된 시험 항목을 모두 만족하여 신뢰성이 높고 안전성이 우수한 제품입니다.

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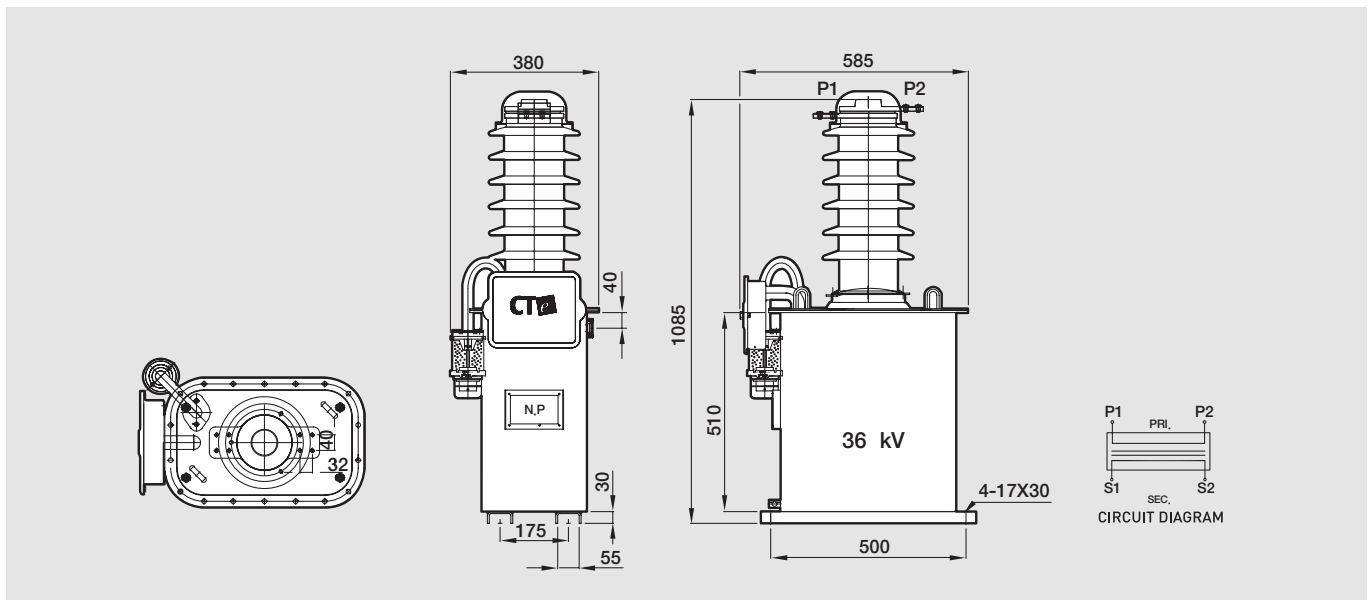
Instrument Current Transformer is a product with high reliability, excellent safety and meets all the enhanced test standards of IEC61869-2.

Compared to the other company's products, it is small and light, very convenient to secure the space and easy to install.

■ 사양/Specification

규격 / Standard	IEC 61869-2
최고회로전압 / Max. Voltage	36kV
절연계급 / Insulation Level	36 / 70 / 170kV
단시간 전류 / Short time Current Max.kA	40In (Max, 40kA/1sec)
정격1차전류 / Rated Primary Current	5~2000A or 2000A 이하
정격2차전류 / Rated Secondary Current	5 or 1A
정격부담 / Rated Burden	15 or 40VA
오차계급 / Accuracy Class	0.5, 1.0, 5P10, 5P20
정격연속 열전류 / Rated Continuous Thermal Current	1.2In
주파수 / Frequency	60 or 50Hz

■ 외형치수/Dimension



※ 본 도면의 치수공차 ±5% (Dimension tolerance : ±5%)

※ 본 도면의 계기 및 부품의 취부 위치와 치수는 다소 변경 될 수 있음 (Dimension and weight will be changed slightly after detail design.)

■ 사양 / Specification

용도 Service	단시간 전류 (Ith) Short time Current	변류비(Current Ratio)		KS C 1706		JEC 1201			IEC 61869-2		
		단일비/ Single	이중비/ Double	Class	Burden	Class	Burden	Over Current Factor	Class	Burden	Over Current Factor
Measuring (CTOC-36286)	300In	5/5~200/5	10-5/5~200-100/5	1.0	15VA	-	-	-	1.0	15VA	FS 5 FS 10 (OPTION)
	8kA	10/5~2000/5	20-10/5~2000-1000/5								
	12.5kA	15/5~2000/5	30-15/5~2000-1000/5								
	25kA	20/5~2000/5	40-20/5~2000-1000/5								
	31.5kA	40/5~2000/5	80-40/5~2000-1000/5								
	40kA	40/5~2000/5	80-40/5~2000-1000/5								
	300In	10/5~200/5	20-10/5~200-100/5	0.5 1.0	15VA 40VA	-	-	-	0.5 1.0	15VA 40VA	FS 5 FS 10 (OPTION)
	8kA	20/5~2000/5	40-20/5~2000-1000/5								
	12.5kA	25/5~2000/5	50-25/5~2000-1000/5								
	25kA	40/5~2000/5	80-40/5~2000-1000/5								
	31.5kA	100/5~2000/5	200-100/5~2000-1000/5								
	40kA	100/5~2000/5	200-100/5~2000-1000/5								
Relaying (CTOC-36286)	300In	5/5~200/5	10-5/5~200-100/5	-	-	1P	15VA	n)10	5P or 10P	15VA	n)10
	8kA	10/5~2000/5	20-10/5~2000-1000/5								
	12.5kA	15/5~2000/5	30-15/5~2000-1000/5								
	25kA	20/5~2000/5	40-20/5~2000-1000/5								
	31.5kA	40/5~2000/5	80-40/5~2000-1000/5								
	40kA	40/5~2000/5	80-40/5~2000-1000/5								
	150In	5/5~400/5	10-5/5~400-200/5	-	-	1P	15VA 40VA	n)20 n)10	5P or 10P	30VA	n)20 n)10
	8kA	20/5~2000/5	40-20/5~2000-1000/5								
	12.5kA	25/5~2000/5	50-25/5~2000-1000/5								
	25kA	40/5~2000/5	80-40/5~2000-1000/5								
	31.5kA	100/5~2000/5	200-100/5~2000-1000/5								
	40kA	100/5~2000/5	200-100/5~2000-1000/5								
	8kA	25/5~2000/5	50-25/5~2000-1000/5	-	-	1P	40VA	n)20	5P or 10P	30VA	n)20
	12.5kA	40/5~2000/5	80-40/5~2000-1000/5								
	25kA	50/5~2000/5	100-50/5~2000-1000/5								
	31.5kA	100/5~2000/5	200-100/5~2000-1000/5								
	40kA	100/5~2000/5	200-100/5~2000-1000/5								
	40kA	100/5~2000/5	200-100/5~2000-1000/5								
2 Core Single Ratio C.T (CTOC-36286)	40In	5~1500/5-5	10-5/5-5~1500-750/5-5	-	-	1.0/1P	15/15	n)10	1.0/5P	15/15	n)10
	75In	5~800/5-5	10-5/5-5~800-400/5-5								
	150In	5~400/5-5	10-5/5-5~400-200/5-5								
	300In	10~200/5-5	20-10/5-5~200-100/5-5								
	8kA	20~2000/5-5	40-20/5-5~2000-1000/5-5								
	12.5kA	30~2000/5-5	60-30/5-5~2000-1000/5-5								
	25kA	40~2000/5-5	80-40/5-5~2000-1000/5-5	-	-	1.0/1P	15/15 40/40	n)20 n)10	1.0/5P	15/15 30/30	n)20 n)10
	31.5kA	100~2000/5-5	200-100/5-5~2000-1000/5-5								
	40kA	100~2000/5-5	200-100/5-5~2000-1000/5-5								
	40In	10~1500/5-5	20-10/5-5~1500-750/5-5								
	8kA	50~2000/5-5	100-50/5-5~2000-1000/5-5								
	12.5kA	80~2000/5-5	160-80/5-5~2000-1000/5-5								
	25kA	100~2000/5-5	200-100/5-5~2000-1000/5-5								
	31.5kA	200~2000/5-5	400-200/5-5~2000-1000/5-5								
	40kA	200~2000/5-5	400-200/5-5~2000-1000/5-5								

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OIL TYPE CT



계기용 변압기

Oil Filled Type Voltage Transformer



CTOP-25

■ 특징/Feature

계기용 변압기는 국제 규격 IEC 61869-3에 강화된 시험 항목을 모두 만족하여 신뢰성이 높고 안전성이 우수한 제품입니다.

타사 제품에 비해 비교적 소형, 경량으로 설치 공간 확보와 설치가 용이합니다.

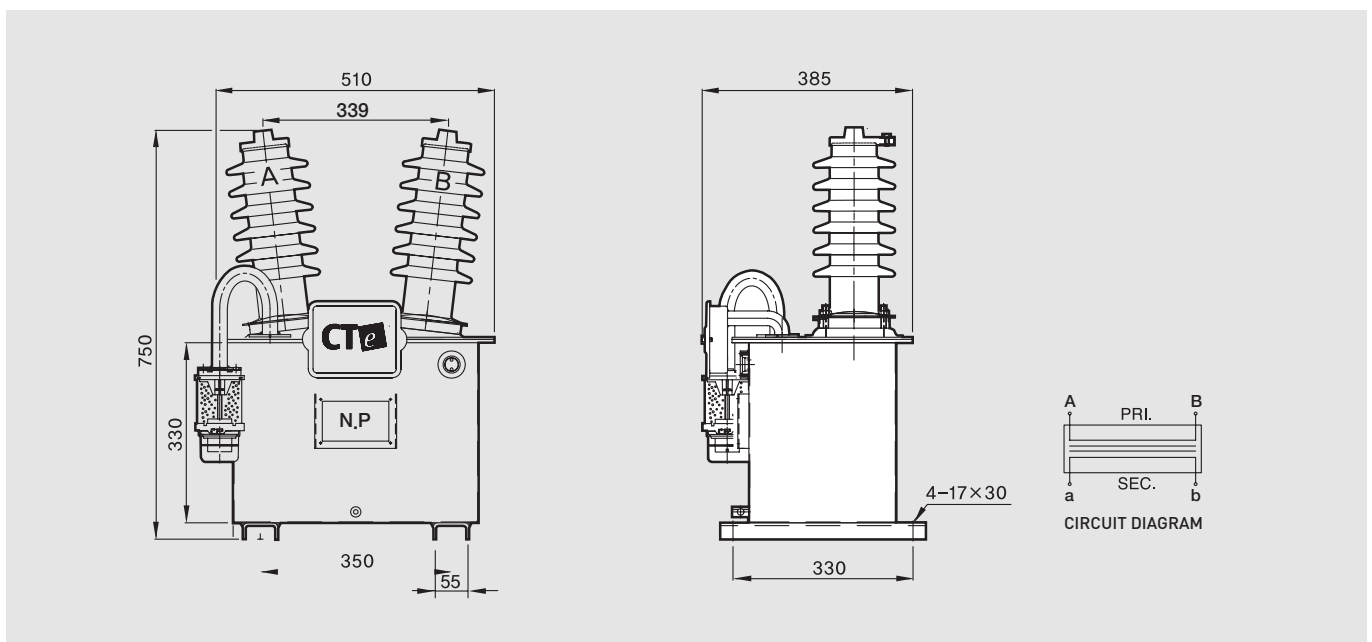
Instrument Voltage Transformer is a product with high reliability, excellent safety and meets all the enhanced test standards of IEC61869-3.

Compared to the other company's products, it is small and light, very convenient to secure the space and easy to install.

■ 사양/Specification

규격 / Standard	IEC 61869-3		
최고회로전압 / Max. Voltage	12kV	17.5kV	24kV
1차 전압 / Primary Voltage	11000V	13200V, 13800V	22000V
2차 전압 / Secondary Voltage	110V or 220V		
절연계급 / Insulation Level	12 / 28 / 75kV	17.5 / 38 / 95kV	24 / 50 / 125kV
과전압 배수 / Over Voltage Factor	1.2Vn Continuous		
계급 / Accuracy Class	0.5		1.0
부담 / Burden	100VA		200VA
주파수 / Frequency	60 or 50Hz		
중량 / Weight(kg)	≈ 95kg		

■ 외형치수/Dimension



※ 본 도면의 치수공차 ±5% (Dimension tolerance : ±5%)

※ 본 도면의 계기 및 부품의 취부 위치와 치수는 다소 변경 될 수 있음 (Dimension and weight will be changed slightly after detail design.)



CTOP-25N

■ 특징/Feature

계기용 변압기는 국제 규격 IEC 61869-3에 강화된 시험 항목을 모두 만족하여 신뢰성이 높고 안전성이 우수한 제품입니다.

타사 제품에 비해 비교적 소형, 경량으로 설치 공간 확보와 설치가 용이합니다.

Instrument Voltage Transformer is a product with high reliability, excellent safety and meets all the enhanced test standards of IEC61869-3.

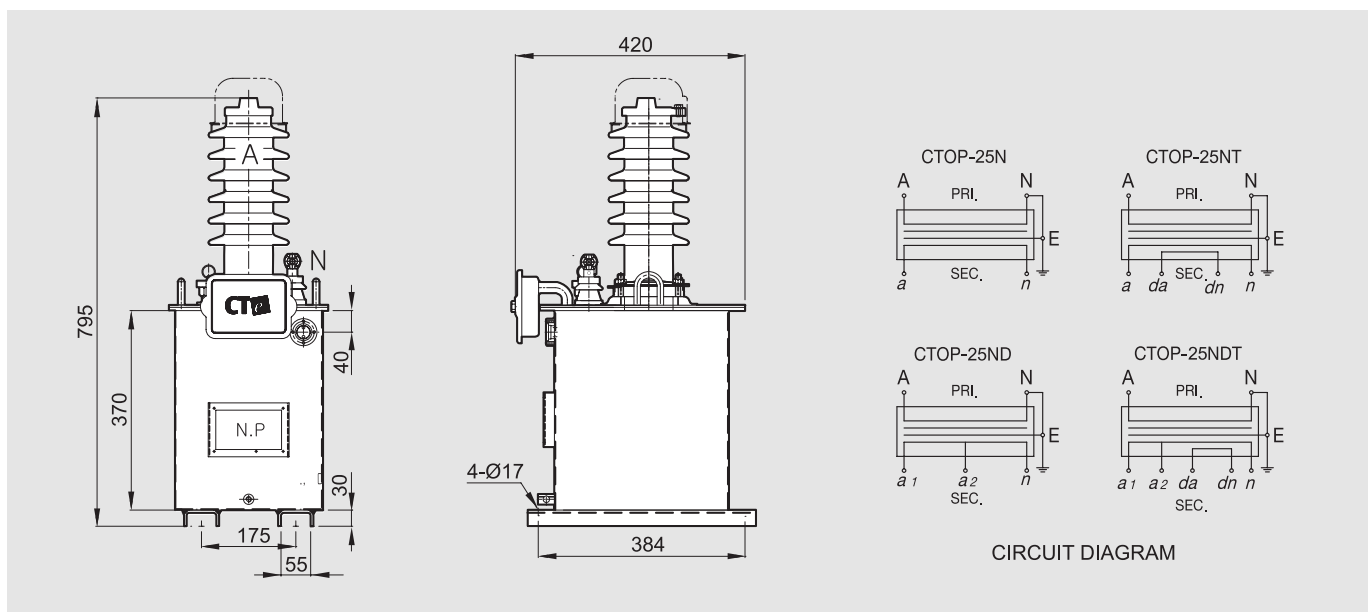
Compared to the other company's products, it is small and light, very convenient to secure the space and easy to install.

■ 사양/Specification

규격 / Standard	IEC 61869-3	
최고회로전압 / Max. Voltage	24kV	
1차 전압 / Primary Voltage	22900V/ $\sqrt{3}$ V	
2차 전압 / Secondary Voltage	110/ $\sqrt{3}$ V	
3차 전압 / Tertiary Voltage	110/3V or 190/3V	
절연계급 / Insulation Level	24 / 50 / 125kV	
과전압 배수 / Over Voltage Factor	1.2Vn Cont., 1.9Vn/30sec	
계급 / Accuracy Class	0.5	1.0
부담 / Burden	100VA	200VA
주파수 / Frequency	60 or 50Hz	

계급 / Accuracy Class	부담 / Burden			
IEC 61869-3	CTOP-25N	CTOP-25ND	CTOP-25NT	CTOP-25NDT
0.5	100VA	50VA	100VA	50VA
1.0	200VA	50VA	200VA	50VA
1.0/3P	200VA		200VA	
1.0/3P	200VA		200VA	

■ 외형치수/Dimension



※ 본 도면의 치수공차 $\pm 5\%$ (Dimension tolerance : $\pm 5\%$)

※ 본 도면의 계기 및 부품의 치수 및 위치는 다소 변경 될 수 있음 (Dimension and weight will be changed slightly after detail design.)

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Products Guide _ 297

G

OIL TYPE PT



계기용 변압기

Oil Filled Type Voltage Transformer



3CTOP-25N

■ 특징/Feature

계기용 변압기는 국제 규격 IEC 61869-3에 강화된 시험 항목을 모두 만족하여 신뢰성이 높고 안전성이 우수한 제품입니다.

타사 제품에 비해 비교적 소형, 경량으로 설치 공간 확보와 설치가 용이합니다.

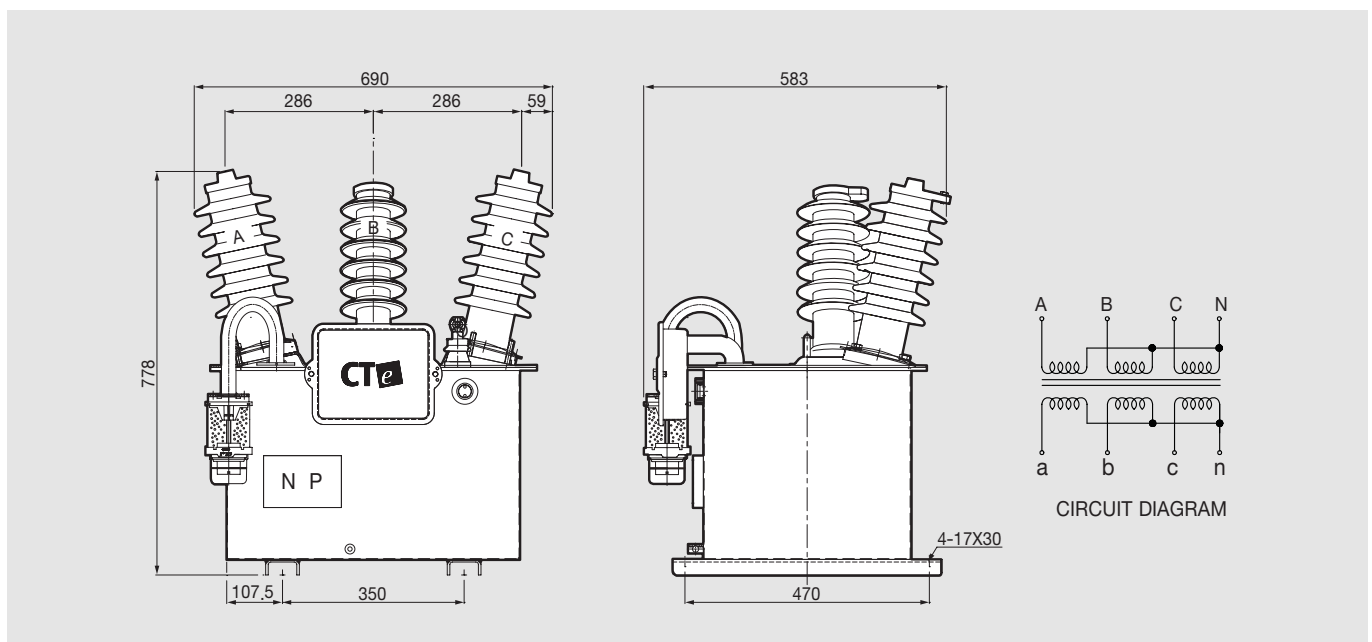
Instrument Voltage Transformer is a product with high reliability, excellent safety and meets all the enhanced test standards of IEC 61869-3.

Compared to the other company's products, it is small and light, very convenient to secure the space and easy to install.

■ 사양/Specification

규격 / Standard	IEC 61869-3
최고회로전압 / Max. Voltage	24kV
1차 전압 / Primary Voltage	22900/R3V
2차 전압 / Secondary Voltage	110/R3V
3차 전압 / Tertiary Voltage	110/3V or 190/3V
절연계급 / Insulation Level	24 / 50 / 125kV
과전압 배수 / Over Voltage Factor	1.2Vn Cont., 1.9Vn/30sec
계급 / Accuracy Class	1.0/3P
부담 / Burden	50, 100, 200VA
주파수 / Frequency	60 or 50Hz

■ 외형치수/Dimension



※ 본 도면의 치수공차 $\pm 5\%$ (Dimension tolerance : $\pm 5\%$)

※ 본 도면의 계기 및 부품의 취부 위치와 치수는 다소 변경 될 수 있음 (Dimension and weight will be changed slightly after detail design.)



CTOP-36

■ 특징/Feature

계기용 변압기는 국제 규격 IEC 61869-3에 강화된 시험 항목을 모두 만족하여 신뢰성이 높고 안전성이 우수한 제품입니다.

타사 제품에 비해 비교적 소형, 경량으로 설치 공간 확보와 설치가 용이합니다.

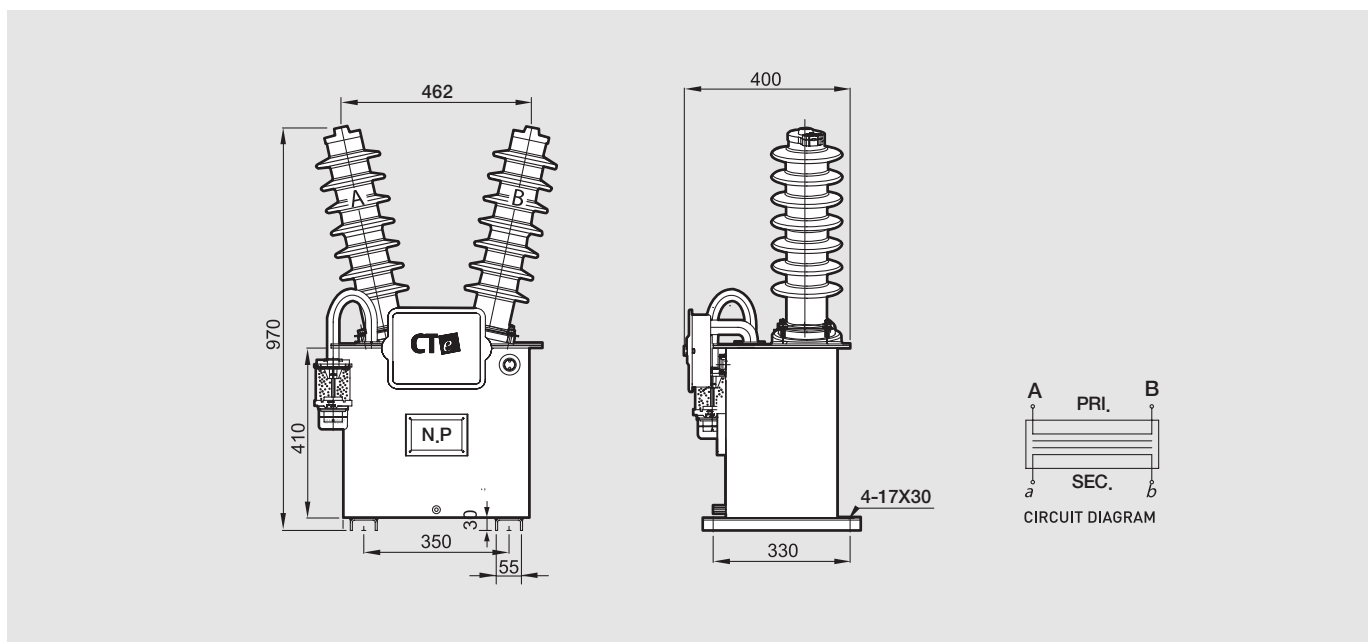
Instrument Voltage Transformer is a product with high reliability, excellent safety and meets all the enhanced test standards of IEC61869-3.

Compared to the other company's products, it is small and light, very convenient to secure the space and easy to install.

■ 사양/Specification

규격 / Standard	IEC 61869-3	
최고회로전압 / Max. Voltage	36kV	
1차 전압 / Primary Voltage	33000V	
2차 전압 / Secondary Voltage	110V	
절연계급 / Insulation Level	36/70/170kV	
과전압 배수 / Over Voltage Factor	1.2Vn Continuous	
계급 / Accuracy Class	0.5	1.0
부담 / Burden	100VA	200VA
주파수 / Frequency	60 or 50Hz	

■ 외형치수/Dimension



※ 본 도면의 치수공차 ±5% (Dimension tolerance : ±5%)

※ 본 도면의 계기 및 부품의 취부 위치와 치수는 다소 변경 될 수 있음 (Dimension and weight will be changed slightly after detail design.)



계기용 변압기

Oil Filled Type Voltage Transformer



CTOP-36N

■ 특징/Feature

계기용 변압기는 국제 규격 IEC 61869-3에 강화된 시험 항목을 모두 만족하여 신뢰성이 높고 안전성이 우수한 제품입니다.

타사 제품에 비해 비교적 소형, 경량으로 설치 공간 확보와 설치가 용이합니다.

Instrument Voltage Transformer is a product with high reliability, excellent safety and meets all the enhanced test standards of IEC61869-3.

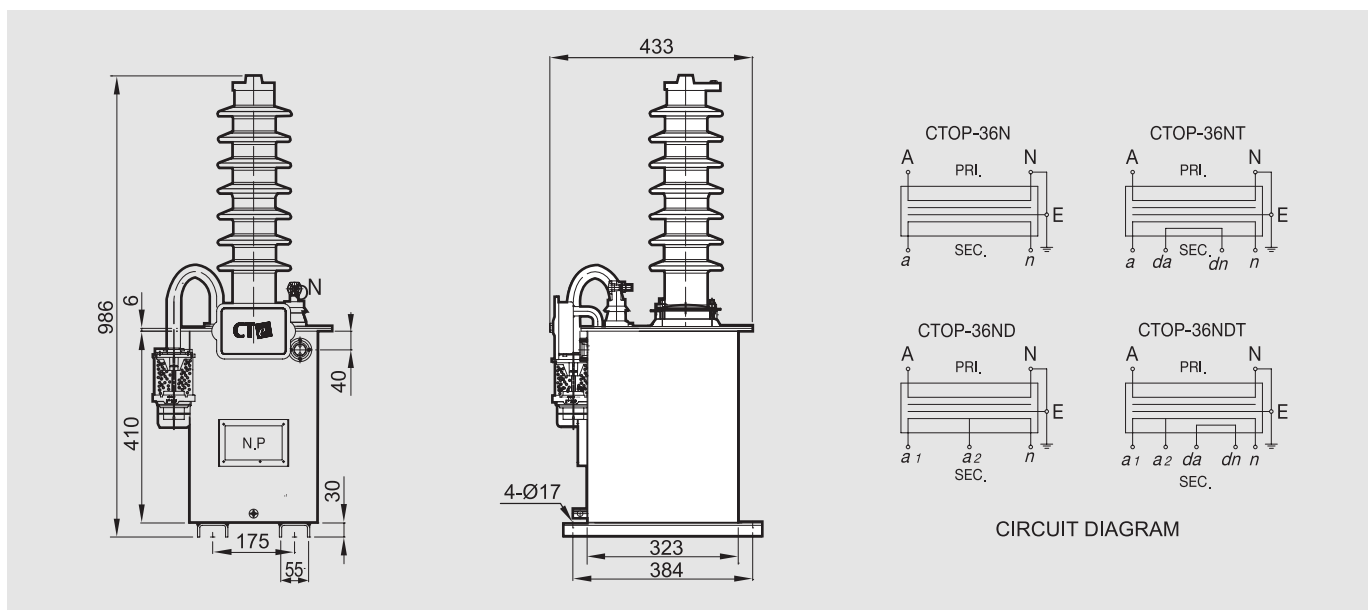
Compared to the other company's products, it is small and light, very convenient to secure the space and easy to install.

■ 사양/Specification

규격 / Standard	IEC 61869-3	
최고회로전압 / Max. Voltage	36kV	
1차 전압 / Primary Voltage	33000V/ $\sqrt{3}$ V	
2차 전압 / Secondary Voltage	110/ $\sqrt{3}$ V	
3차 전압 / Tertiary Voltage	110/3V or 190/3V	
절연계급 / Insulation Level	36 / 70 / 170kV	
과전압 배수 / Over Voltage Factor	1.2Vn Cont., 1.9Vn/30sec	
계급 / Accuracy Class	0.5	1.0
부담 / Burden	100VA	200VA
주파수 / Frequency	60 or 50Hz	

계급 / Accuracy Class	부담 / Burden			
IEC 61869-3	CTOP-36N	CTOP-36ND	CTOP-36NT	CTOP-36NDT
0.5	100VA	50VA	100VA	50VA
1.0	200VA	50VA	200VA	50VA
1.0/3P	200VA		200VA	
1.0/3P	200VA		200VA	

■ 외형치수/Dimension



※ 본 도면의 치수공차 $\pm 5\%$ (Dimension tolerance : $\pm 5\%$)

※ 본 도면의 계기 및 부품의 치수 및 위치는 다소 변경 될 수 있음 (Dimension and weight will be changed slightly after detail design.)



3CTOP-36N

■ 특징/Feature

계기용 변압기는 국제 규격 IEC 61869-3에 강화된 시험 항목을 모두 만족하여 신뢰성이 높고 안전성이 우수한 제품입니다.

타사 제품에 비해 비교적 소형, 경량으로 설치 공간 확보와 설치가 용이합니다.

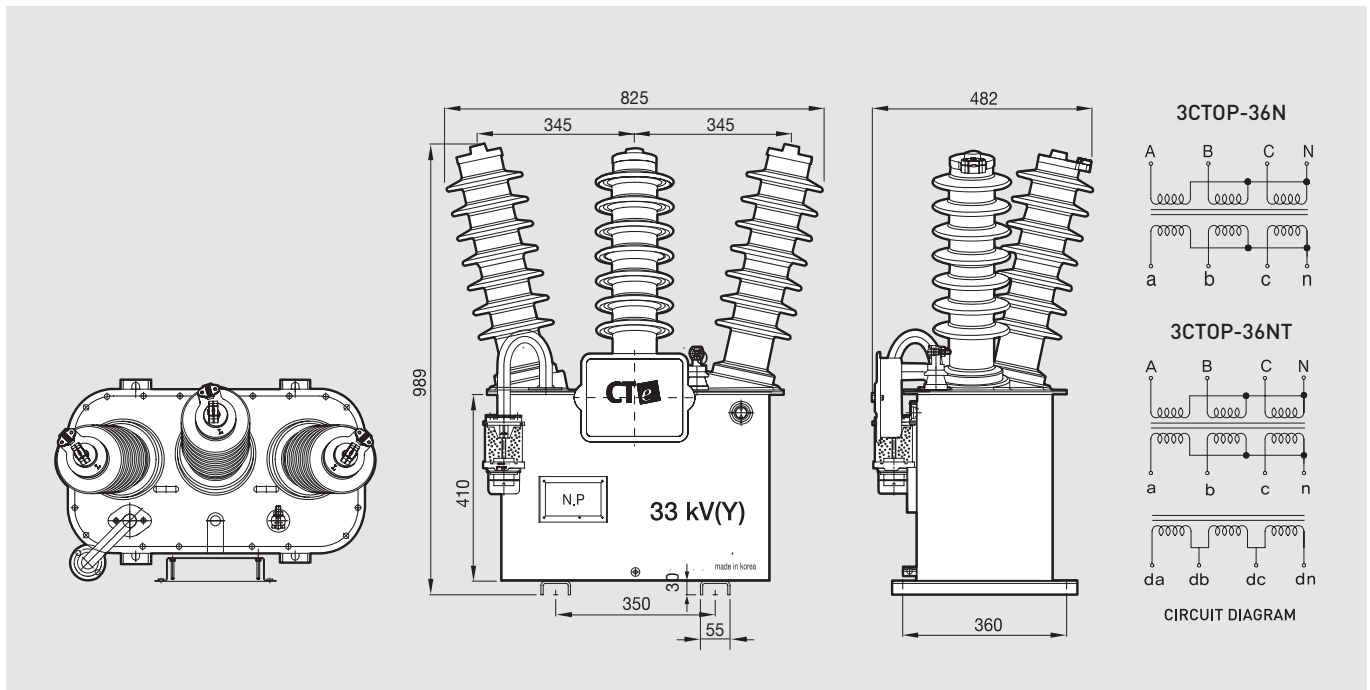
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Compared to the other company's products, it is small and light, very convenient to secure the space and easy to install.

■ 사양/Specification

규격 / Standard	IEC 61869-3
최고회로전압 / Max. Voltage	36kV
1차 전압 / Primary Voltage	33000V/ $\sqrt{3}$ V
2차 전압 / Secondary Voltage	110V/ $\sqrt{3}$ V
3차 전압 / Tertiary Voltage	110/3V or 190/3V
절연계급 / Insulation Level	36 / 70 / 170kV
과전압 배수 / Over Voltage Factor	1.2Vn Cont., 1.9Vn/30sec
계급 / Accuracy Class	1.0/3P
부담 / Burden	50, 100, 200VA
주파수 / Frequency	60 or 50Hz

■ 외형치수/Dimension



※ 본 도면의 치수공차 $\pm 5\%$ (Dimension tolerance : $\pm 5\%$)

※ 본 도면의 계기 및 부품의 취부 위치와 치수는 다소 변경 될 수 있음 (Dimension and weight will be changed slightly after detail design.)



계기용 변압기

Oil Filled Type Voltage Transformer



CTOP-244EN

■ 특징 / Feature

전원공급형 계기용 변압기는 국제 규격 IEC 61869-3에 강화된 시험 항목을 모두 만족합니다. 차단기에 공급될 전원용 변압기가 내장되어있으며, 단독 철심형으로 안전성이 우수하며 사고 시 소손방지 및 보호형으로 사용 가능한 제품입니다. 타사 제품에 비해 비교적 소형, 경량으로 설치 공간 확보와 설치가 용이합니다.

Power Supply Type Instrument Voltage Transformer meets all the enhanced test standards of IEC 61869-3. Voltage Transformer for Supplying power to the breaker is built. It is safety as individual core type. when accident hanppen, this product is available for burnout prevention and protection. Compared to the other comany's product, it is small and light. Also, it is very convenient to secure the space and easy to install.

■ 사양 / Specification

Type	CTOP-244EN
규격 / Standard	IEC 61869-3
최고회로전압 / Max. Voltage	24kV
1차 전압 / Primary Voltage	24000/ $\sqrt{3}$ V
2차 전압 / Secondary Voltage	240/ $\sqrt{3}$ - 120/ $\sqrt{3}$ V
절연계급 / Insulation Level	24 /50 /125kV
계급 / Accuracy Class	1.0
부담 / Burden	40VA
과전압 배수 / Over Voltage Factor	1.2Vn Cont., 1.5Vn/30sec
전원 전압 / Rated Power Output (For Power Supply)	480 - 240V
전원 오차 / Accuracy (For Power Supply)	10%
전원 출력 / Rated Output (For Power Supply)	500VA
주파수 / Frequency	50Hz
중량 / Weight(kg)	≈ 244kg

■ 외형치수 / Dimension

