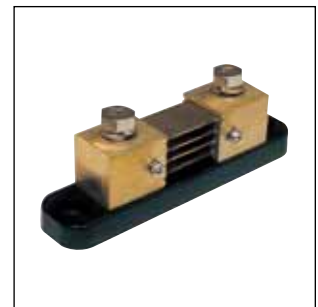


Transformers



| | |
|--|----|
| 3상 계기용 변류기 3Phase Potential Low Transformer | 4 |
| 터미널 C.T Current Transformer | 6 |
| 계기용 변압기 Voltage Potential Transformer | 7 |
| 계기용 변류기 Current Transformer(Window and Ring) | 8 |
| 3상 계기용 저압변압기 3Phase Potential Low Transformer | 10 |
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3상 계기용 변류기

3Phase Current Transformer

3상 계기용 변류기는 배선용 및 누전 차단기 조합용으로 단상 변류기의 크기(부피)로 인한 설치의 어려움을 보완하여 간단하게 설치할 수 있는 변류기입니다.

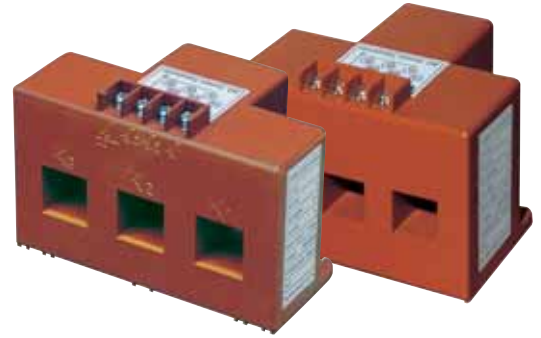
CD-300은 100A 차단기와 조합이 가능합니다.
 CD-301은 200A 차단기와 조합이 가능합니다.
 CD-302은 400A 차단기와 조합이 가능합니다.
 CD-303은 600~1200A 차단기와 조합이 가능합니다.

정 격 / Rating

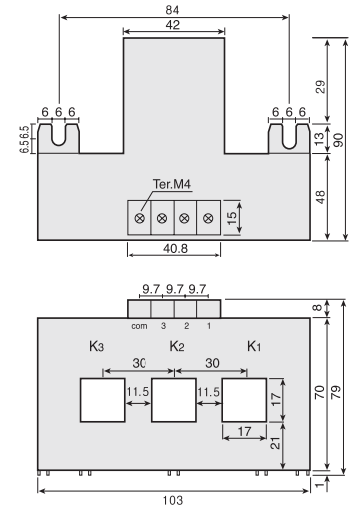
| | CD-300 | CD-301 | CD -302/302S | CD-303 |
|----------------------|------------|------------|--------------|------------|
| 최고전압/ Max Voltage | 1150V | 1150V | 1150V | 1150V |
| 주파수/ Frequency | 50Hz~60 Hz | 50Hz~60 Hz | 50Hz~60 Hz | 50Hz~60 Hz |
| 정밀계급/ Accuracy Class | 1.0 ~ 3.0% | 1.0 ~ 3.0% | 1.0% | 1.0% |
| Over Current Factor | 40In/ 1Sec | 40In/ 1Sec | 40In/ 1Sec | 40In/ 1Sec |



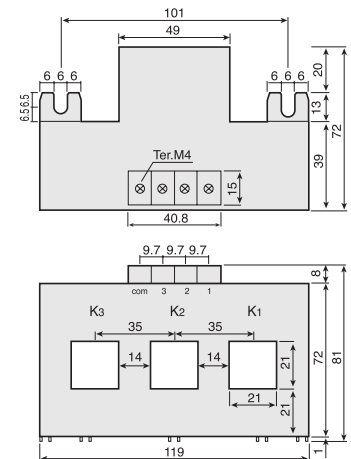
Dimensions



CD-300, 300A



CD-301, CD-301A

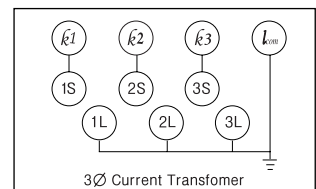


사 양 / Specification (3CT)

| | 1차전류 Pri. Cur.(A) | 2차전류 Pri. Cur.(A) | 계급 Class(%) | 부담 Burden(VA) | 중량 Weight(Kg) | Hole Size (mm) |
|-------------------|----------------------|----------------------|----------------|------------------|------------------|-------------------|
| CD-300 | 100 | 5 | 1.0 | 5 | ≒1.2 | 17 x 17 - 3 |
| | 150 | 5 | 3.0 | 15 | ≒1.2 | 17 x 17 - 3 |
| CD-301 | 200 | 5 | 1.0 | 15 | ≒ 1.2 | 21x 21 - 3 |
| | 100 | 5 | 3.0 | 15 | ≒ 1.2 | 21x 21 - 3 |
| | 150 | 5 | 3.0 | 15 | ≒ 1.2 | 21x 21 - 3 |
| CD-302 CD-302S | 400 | 5 | 1.0 | 15/ 40 | ≒1.5 | 26 x 24 - 3 |
| | 500 | 5 | 1.0 | 15/ 40 | ≒1.5 | 26 x 24 - 3 |
| | 200 | 5 | 1.0 | 15 | ≒1.5 | 26 x 24 - 3 |
| CD-303 | 300 | 5 | 1.0 | 15 | ≒1.5 | 26 x 24 - 3 |
| | 600 | 5 | 1.0 | 15/ 40 | ≒2.2 | 46 x 28 - 3 |
| | 800 | 5 | 1.0 | 15/ 40 | ≒2.3 | 46 x 28 - 3 |
| | 1000 | 5 | 1.0 | 15/ 40 | ≒2.4 | 46 x 28 - 3 |
| | 1200 | 5 | 1.0 | 15/ 40 | ≒2.5 | 46 x 28 - 3 |
| | 400 | 5 | 1.0 | 15/ 40 | ≒2.2 | 46 x 28 - 3 |
| | 500 | 5 | 1.0 | 15/ 40 | ≒2.2 | 46 x 28 - 3 |

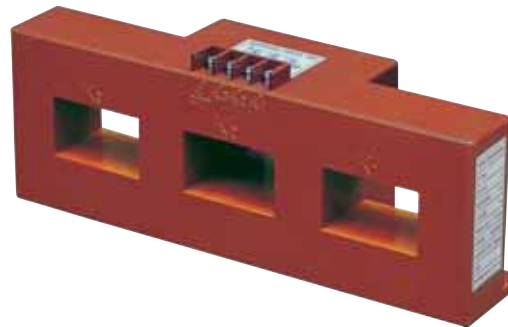
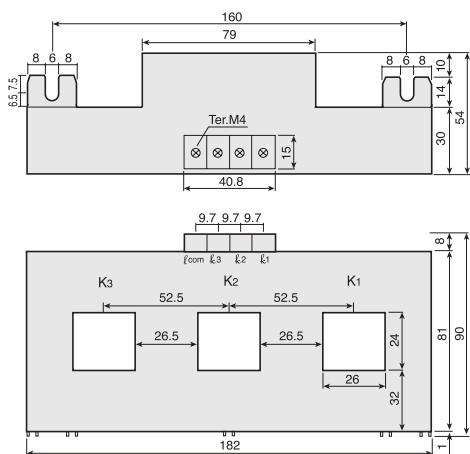
Connections

3CT

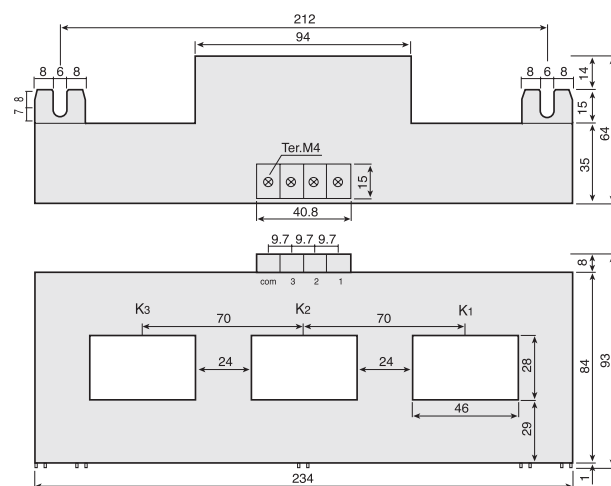




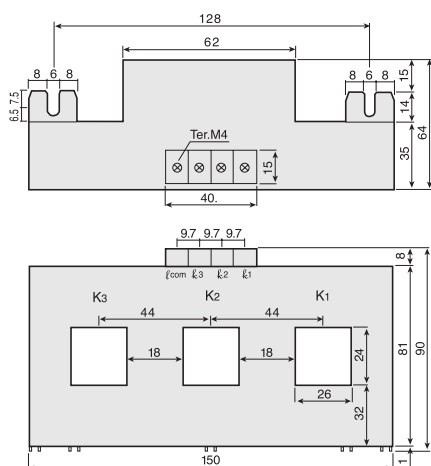
CD-302, CD-302A



CD-303, CD-303A



CD-302S, CD-302SA

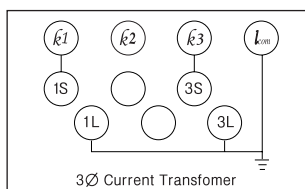


사 양 / Specification (2CT)

| | 1차전류 Pri. Cur.(A) | 2차전류 Pri. Cur.(A) | 계급 Class(%) | 부담 Burden(VA) | 중량 Weight(Kg) | Hole Size (mm) |
|-----------------------------|----------------------|----------------------|----------------|------------------|------------------|-------------------|
| CD-300A | 100 | 5 | 1.0 | 5 | ≒1.1 | 17 x 17 - 3 |
| | 150 | 5 | 3.0 | 15 | ≒1.1 | 17 x 17 - 3 |
| CD-301A | 200 | 5 | 1.0 | 15 | ≒1.1 | 21x 21 - 3 |
| | 100 | 5 | 3.0 | 15 | ≒1.1 | 21x 21 - 3 |
| | 150 | 5 | 3.0 | 15 | ≒1.1 | 21x 21 - 3 |
| CD-302A CD-302SA | 300 | 5 | 1.0 | 15 | ≒1.1 | 21x 21 - 3 |
| | 400 | 5 | 1.0 | 15/ 40 | ≒1.4 | 26 x 24 - 3 |
| | 500 | 5 | 1.0 | 15/ 40 | ≒1.4 | 26 x 24 - 3 |
| CD-303A | 200 | 5 | 1.0 | 15 | ≒1.4 | 26 x 24 - 3 |
| | 300 | 5 | 1.0 | 15 | ≒1.4 | 26 x 24 - 3 |
| | 600 | 5 | 1.0 | 15/ 40 | ≒2.0 | 46 x 28 - 3 |
| CD-303A | 800 | 5 | 1.0 | 15/ 40 | ≒2.1 | 46 x 28 - 3 |
| | 1000 | 5 | 1.0 | 15/ 40 | ≒2.2 | 46 x 28 - 3 |
| | 1200 | 5 | 1.0 | 15/ 40 | ≒2.3 | 46 x 28 - 3 |
| | 400 | 5 | 1.0 | 15/ 40 | ≒2.0 | 46 x 28 - 3 |
| | 500 | 5 | 1.0 | 15/ 40 | ≒2.0 | 46 x 28 - 3 |

Connections

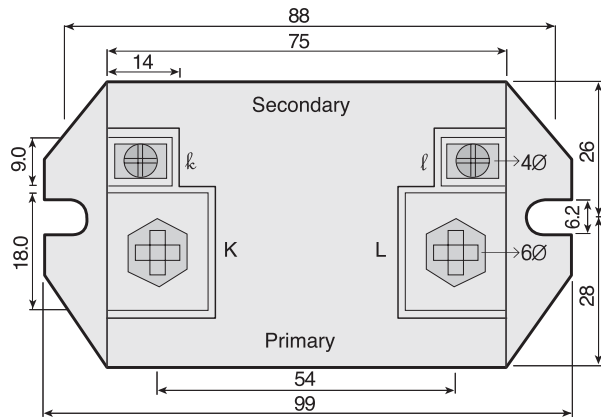
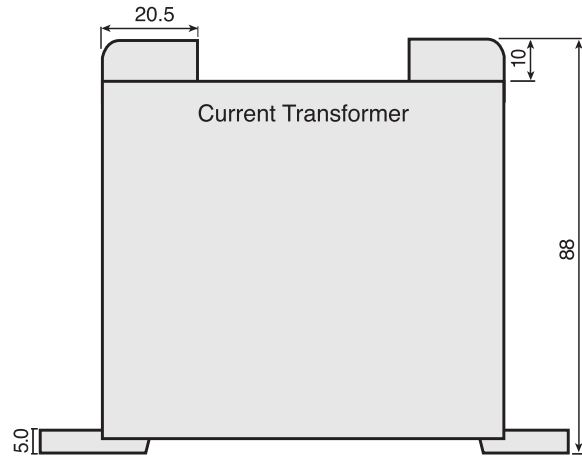
2CT



터미널 C.T

Shunt

낮은 용량의 전류를 턴없이 터미널로 연결하여 사용할 수 있는 C.T입니다.



정 격 / Rating

| | |
|------------------------------|-----------|
| 적용규격 / Standard | KSC 1706 |
| 최고전압 / Max Voltage | 1.15Kv |
| 정격부담 / Rated Burden | 5 ~ 40VA |
| 정밀계급 / Accuracy Class | 1.0 ~ 3.0 |
| 정격과 전류 / Over Current Factor | 40In/1Sec |
| 주파수 / Frequency | 50 ~ 60Hz |
| 2차전류 / Secondary Current | 5A |

사 양 / Specification

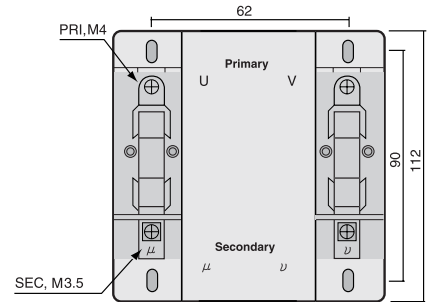
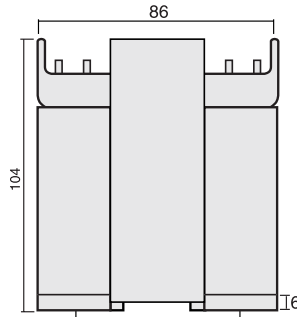
| | 1차전류 Pri. Cur(A) | 2차전류 Pri. Cur(A) | 계급 Class(%) | 부담 Burden | 중량 Weight(Kg) |
|--------------|---------------------|---------------------|----------------|--------------|------------------|
| CD-50 | 5 ~ 50 | 5 | 3.0 | 5 | 0.65 |
| CD-51 | 5 ~ 50 | 5 | 1.0 | 5 | 0.7 |
| CD-52 | 5 ~ 50 | 5 | 1.0 | 15 | 0.75 |
| CD-53 | 5 ~ 50 | 5 | 1.0 | 40 | 0.75 |

계기용 변압기

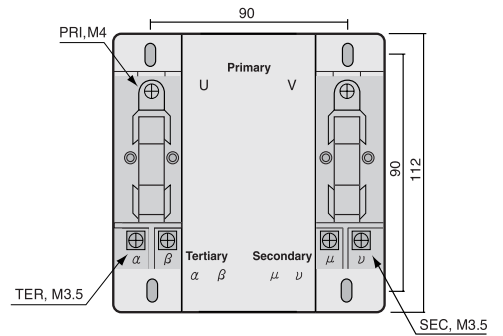
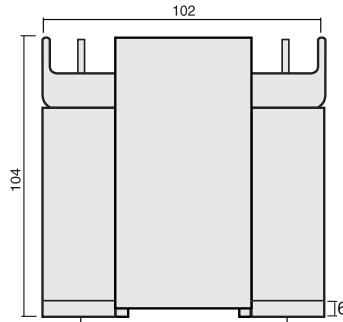
Voltage Potential Transformer



DP-101



DP-102, 10G, 103



PT정격 / Rating

| | |
|------------------------|-----------------|
| 적용규격 / Standard | KSC 1706 |
| 최고전압 / Max Voltage | 0.46 Kv |
| 정밀계급 / Accuracy Class | 1.0 |
| 1차전압 / P'ry Voltage(V) | 220~440, 380/√3 |
| 2차전압 / S'ry Voltage(V) | 110, 190/√3 |
| 주 파 수 / Frequency | 50 or 60 Hz |

사 양 / Specification

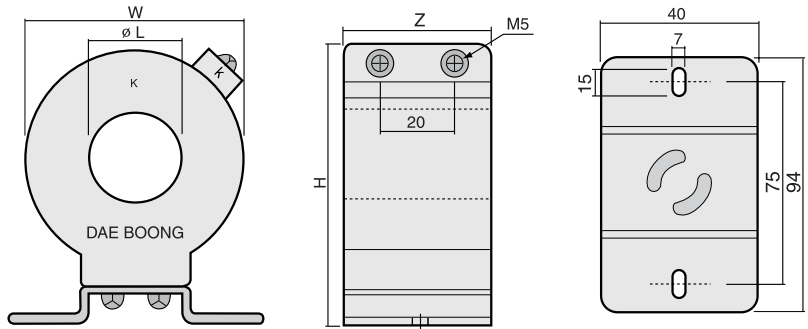
| Model | 1차 전압 | 2차 전압 | 3차 전압 | 정격부담 (VA) | Weight (Kg) |
|--------|-----------------|------------------|----------------|-----------|-------------|
| DP-101 | 220~440, 380/√3 | 110, 190/√3 | | 50 | ≒ 3.0 |
| DP-102 | 220~440, 380/√3 | 110, 190/√3 | | 100 | ≒ 5 |
| DP-103 | 220~440, 380/√3 | 110, 190/√3 | | 200 | ≒ 5 |
| DP-10G | 208/√3 ~ 440/√3 | 110/√3 or 190/√3 | 110/3 or 190/3 | 50/100 | ≒ 5 |

계기용 변류기

Current Transformer



Ring Type



제 원 / Dimensions

| Model | H | φ L | W | Z | Weight (g) |
|---------|-----|-----|-----|----|------------|
| CD-201 | 92 | 25 | 70 | 40 | ≒ 500 |
| CD-202 | 110 | 40 | 88 | 40 | ≒ 700 |
| CD-202A | 110 | 40 | 88 | 50 | ≒ 1000 |
| CD-203 | 125 | 60 | 106 | 40 | ≒ 800 |

※ 홀 100φ C.T는 주문제작합니다.

정 격 / Rating

| | |
|------------------------------|------------|
| 적용규격 / Standard | KSC-1706 |
| 최고전압 / Max Voltage | 1.15Kv |
| 정격과 전류 / Over Current Factor | 40In/ 1Sec |
| 주파수 / Frequency | 50 ~ 60Hz |

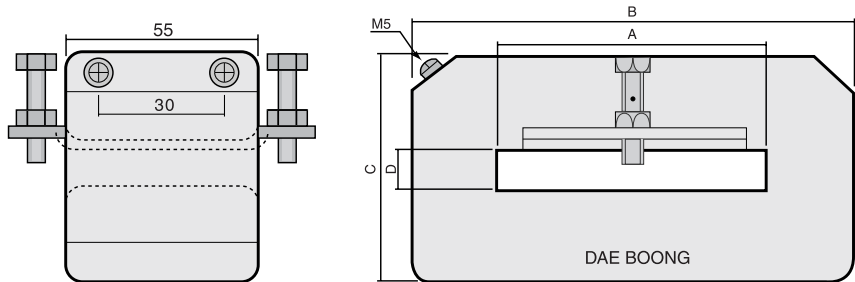
사 양 / Specification

| Primary | Model | CD-201, 20S | | | | | | CD-202 | | | | | | CD-202A | | | | CD-203 | | | | | |
|---------|----------|-------------|------|-----|------|------|------|--------|------|------|------|------|------|---------|------|------|------|--------|------|------|------|------|------|
| | Class(%) | 3.0 | | 1.0 | | | | 1.0 | | | | | | 1.0 | | | | 1.0 | | | | | |
| | Burden | 5VA | | 5VA | | 15VA | | 5VA | | 15VA | | 40VA | | 15VA | | 40VA | | 5VA | | 15VA | | 40VA | |
| | Sec. | AT | Tur. | AT | Tur. | AT | Tur. | AT | Tur. | AT | Tur. | AT | Tur. | AT | Tur. | AT | Tur. | AT | Tur. | AT | Tur. | AT | Tur. |
| 5 | 5 or 1 | 100 | 20 | | | | | 150 | 30 | 200 | 40 | 400 | 80 | 150 | 30 | 225 | 45 | | | | | | |
| 10 | | 100 | 10 | | | | | 150 | 15 | 200 | 20 | 400 | 40 | 150 | 15 | 230 | 23 | | | | | | |
| 15 | | 120 | 8 | | | | | 150 | 10 | 240 | 16 | 420 | 28 | 150 | 10 | 225 | 15 | | | | | | |
| 20 | | 100 | 5 | | | | | 160 | 8 | 240 | 12 | 400 | 20 | 160 | 8 | 240 | 12 | | | | | | |
| 25 | | 100 | 4 | | | | | 150 | 6 | 200 | 8 | 400 | 16 | 150 | 6 | 225 | 9 | | | | | | |
| 30 | | 120 | 4 | | | | | 150 | 5 | 240 | 8 | 420 | 14 | 150 | 5 | 240 | 8 | | | | | | |
| 40 | | 120 | 3 | | | | | 160 | 4 | 240 | 6 | 400 | 10 | 160 | 4 | 240 | 6 | | | | | | |
| 50 | | 100 | 2 | | | | | 150 | 3 | 200 | 4 | 400 | 8 | 150 | 3 | 250 | 5 | | | | | | |
| 60 | | 120 | 2 | | | | | 180 | 3 | 240 | 4 | 420 | 7 | 180 | 2 | 240 | 4 | | | | | | |
| 75 | | 150 | 2 | | | | | 150 | 2 | 225 | 3 | 450 | 6 | 150 | 2 | 225 | 3 | | | | | | |
| 100 | | 100 | 1 | | | | | 200 | 2 | 200 | 2 | 400 | 4 | 200 | 2 | 300 | 3 | | | | | | |
| 120 | | 120 | 1 | | | | | 240 | 2 | 240 | 2 | 480 | 4 | 240 | 2 | 240 | 2 | | | | | | |
| 150 | | 150 | 1 | | | | | 150 | 1 | 300 | 2 | 450 | 3 | 150 | 1 | 300 | 2 | | | | | | |
| 200 | | 200 | 1 | 200 | 1 | 200 | 1 | 200 | 1 | 200 | 1 | 400 | 2 | 200 | 1 | 400 | 2 | | | | | | |
| 240 | | 240 | 1 | 240 | 1 | 240 | 1 | 240 | 1 | 240 | 1 | 480 | 2 | 240 | 1 | 240 | 1 | | | | | | |
| 250 | | 250 | 1 | 250 | 1 | 250 | 1 | 250 | 1 | 250 | 1 | 500 | 2 | 250 | 1 | 250 | 1 | | | | | | |
| 300 | | 300 | 1 | 300 | 1 | 300 | 1 | 300 | 1 | 300 | 1 | 600 | 2 | 300 | 1 | 300 | 1 | | | | | | |
| 400 | | | | | | | | 400 | 1 | 400 | 1 | 400 | 1 | | | | | 400 | 1 | 400 | 1 | 400 | 1 |
| 500 | | | | | | | | 500 | 1 | 500 | 1 | 500 | 1 | | | | | 500 | 1 | 500 | 1 | 500 | 1 |
| 600 | | | | | | | | 600 | 1 | 600 | 1 | 600 | 1 | | | | | 600 | 1 | 600 | 1 | 600 | 1 |
| 750 | | | | | | | 750 | 1 | 50 | 1 | 750 | 1 | | | | | 750 | 1 | 750 | 1 | 750 | 1 | |
| 800 | | | | | | | 800 | 1 | 800 | 1 | 800 | 1 | | | | | 800 | 1 | 800 | 1 | 800 | 1 | |
| 1000 | | | | | | | | | | | | | | | | | 1000 | 1 | 1000 | 1 | 1000 | 1 | |
| 1200 | | | | | | | | | | | | | | | | | 1200 | 1 | 1200 | 1 | 1200 | 1 | |
| 1500 | | | | | | | | | | | | | | | | | 1500 | 1 | 1500 | 1 | 1500 | 1 | |

※ Turn은 C.T홀을 관통 하는 전선의 가닥수(바깥쪽 가닥수보다 1턴 많음)



Window Type



제 원 / Dimensions

| Model | Rated (A) | A | B | C | D | Weight (Kg) |
|-------|-------------|-----|-----|-----|----|-------------|
| CD-20 | 100 ~ 500 | 55 | 110 | 60 | 10 | 0.75 |
| CD-21 | 600 ~ 1200 | 80 | 131 | 70 | 15 | 1.0 |
| CD-22 | 1500 ~ 2500 | 105 | 160 | 85 | 30 | 1.7 |
| CD-23 | 2000 ~ 4000 | 130 | 205 | 120 | 40 | 2.7 |
| CD-24 | 3000 ~ 6000 | 160 | 260 | 175 | 65 | 4.0 |

정 격 / Rating

| | |
|------------------------------|---------------|
| 적용규격 / Standard | KSC 1706 |
| 최고전압 / Max Voltage | 1.15Kv |
| 정격부담 / Rated Burden | 5 ~ 40VA |
| 정밀계급 / Accuracy Class | 1.0 ~ 3.0 |
| 정격과 전류 / Over Current Factor | 40 In / 1 Sec |
| 주파수 / Frequency | 50 ~ 60 Hz |
| 2차전류 / 2' nd Current(A) | 5 or 1 |

Single Ratio C.T

| Model | Rated Current (A) | Burden (VA) | Accuracy Class (%) | Hole Size (mm) |
|-------|---------------------|-------------|--------------------|----------------|
| | Primary / secondary | | | |
| CD-20 | 100 / 5 ~ 150 / 5 | 5VA ~ 15VA | 3.0 | 55 x 10 |
| CD-20 | 200 / 5 ~ 600 / 5 | 5VA ~ 15VA | 1.0 | 55 x 10 |
| CD-20 | 300 / 5 ~ 600 / 5 | 40VA | 1.0 | 55 x 10 |
| CD-21 | 600 / 5 ~ 1200 / 5 | 5VA ~ 40VA | 1.0 | 80 x 15 |
| CD-22 | 1500 / 5 ~ 2500 / 5 | 5VA ~ 40VA | 1.0 | 105 x 30 |
| CD-23 | 2000 / 5 ~ 3000 / 5 | 5VA ~ 40VA | 1.0 | 130 x 40 |
| CD-24 | 2000 / 5 ~ 6000 / 5 | 5VA ~ 40VA | 1.0 | 160 x 65 |

3상 계기용 저압변압기

3Phase Potential Low Transformer

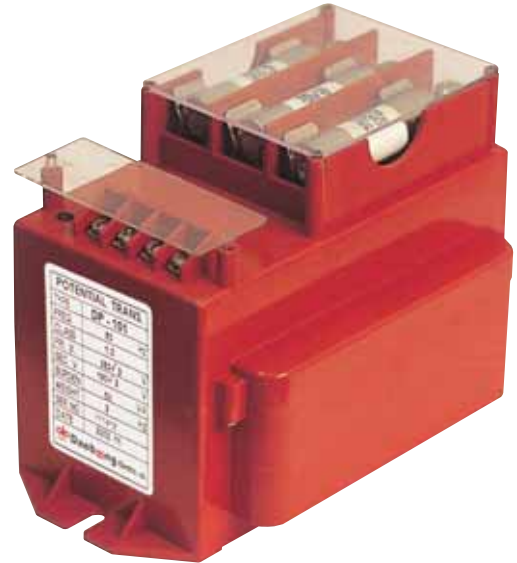
계기용 변압기 3대 용량을 1대로

가격이 저렴합니다.

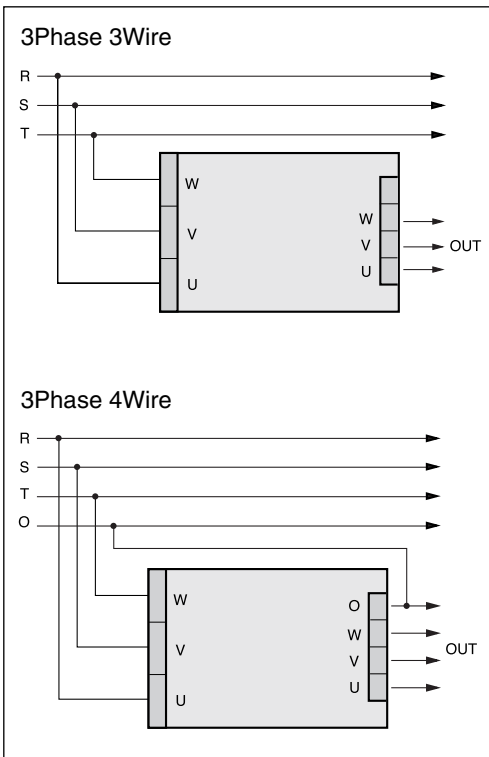
3대의 용량을 1대만 구입하면되므로 가격이 저렴하고 배전반을 줄여서 제작할 수 있으므로 경제적이다.

장착이 간편합니다.

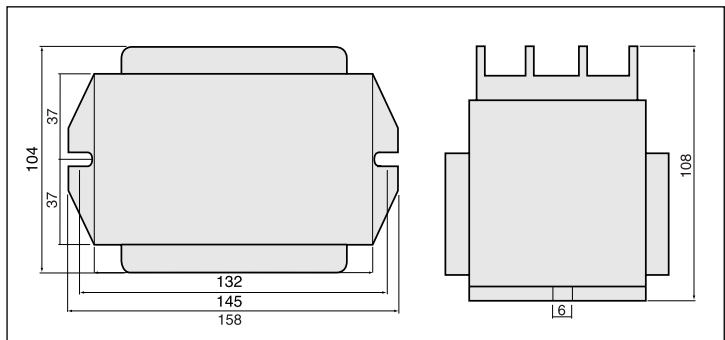
3대의 용량을 1대로 처리하므로 결선이 간단하고 설치면적이 줄어들어 장착이 용이하고 간편하다.



Connection Diagram



Dimension



PT정격 / Rating

| | |
|---------------------------|-----------------|
| 적용규격 / Standard | KSC 1706 |
| 최고전압 / Max, Voltage | 0.46KV |
| 정밀계급 / Accuracy Class (%) | 1.0 |
| 1차전압 / P'ry Voltage(V) | 220~440, 380/√3 |
| 2차전압 / S'ry Voltage(V) | 110~220, 190/√3 |
| 주 파 수 / Frequency | 50/ 60Hz |

사 양 / Specification

| Model | 1차 전압 P'ry Voltage | 2차 전압 S'ry Voltage | 정격부담 Burden(VA) | Weight (Kg) |
|-------|-----------------------|-----------------------|--------------------|----------------|
| DP-30 | 220 ~ 440 | 110 ~ 220 | (25 x 2) 50 | 3.6 |
| DP-40 | 380/√3 | 190/√3 | (17 x 3) 50 | 4.0 |

일반용 및 표준용 분류기

Shunt



산트 정격 / Shunt Rating

| 적용규격 | 정격2차 전압 | 등급 | 온도상승시험 |
|----------|-------------------|--------------|-----------------|
| KSC 1705 | 50mV, 60mV, 100mV | 0.1 급, 0.2 급 | 정격전류 100% 80℃이내 |
| | | 0.5 급, 1.0 급 | 정격전류 80% 80℃이내 |

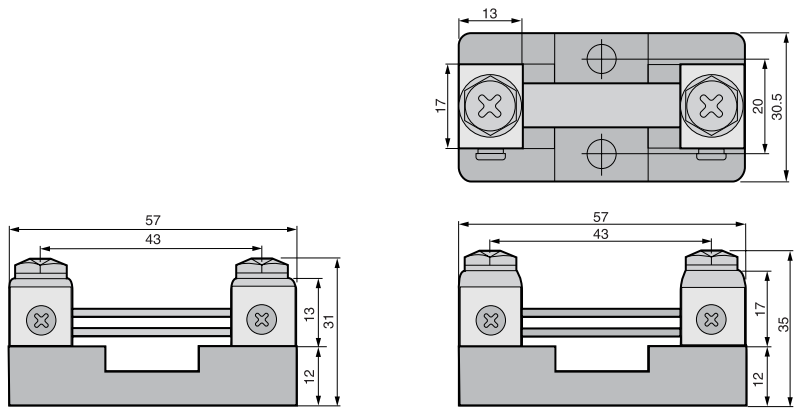
※ 2차 전압 100mV 이상은 주문제작.

ME-1



1~90A (50~60mV)

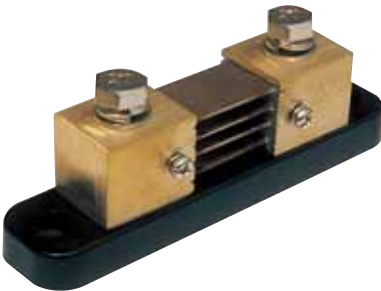
등급 ±0.5%, ±1.0%



1~50A (50~60mV)

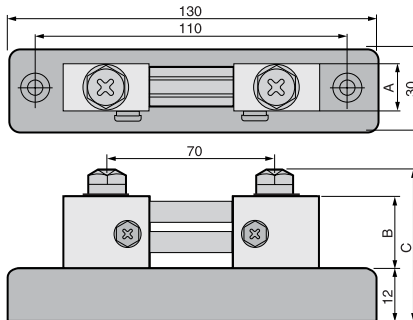
60~90A (50~60mV)

ME-2



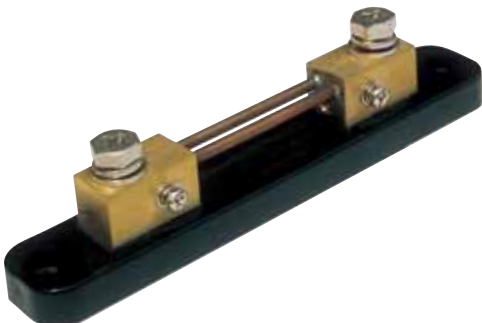
1~300A (50~60mV)

등급 ±0.5%, ±1.0%



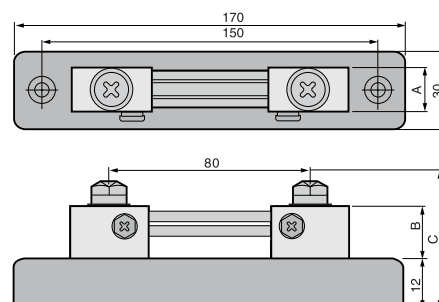
| 1차전류 (A) | A | B | C |
|----------|----|----|----|
| ~ 100 | 17 | 13 | 31 |
| ~ 150 | 17 | 17 | 35 |
| ~ 200 | 25 | 17 | 35 |
| ~ 250 | 25 | 20 | 38 |
| ~ 300 | 25 | 25 | 43 |

ME-3



1~300A (50~200mV)

등급 ±0.2%, ±0.5%, ±1.0%



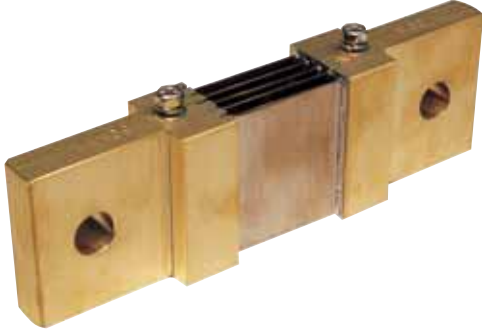
| 1차전류 (A) | A | B | C |
|----------|----|----|----|
| ~ 100 | 17 | 13 | 35 |
| ~ 150 | 17 | 17 | 35 |
| ~ 200 | 25 | 17 | 35 |
| ~ 250 | 25 | 20 | 38 |
| ~ 300 | 25 | 25 | 43 |

※ 경납가공은 1~1000A까지 주문 생산 합니다.
 ※ 0.2급 제품은 경납가공 합니다.

일반용 및 표준용 분류기

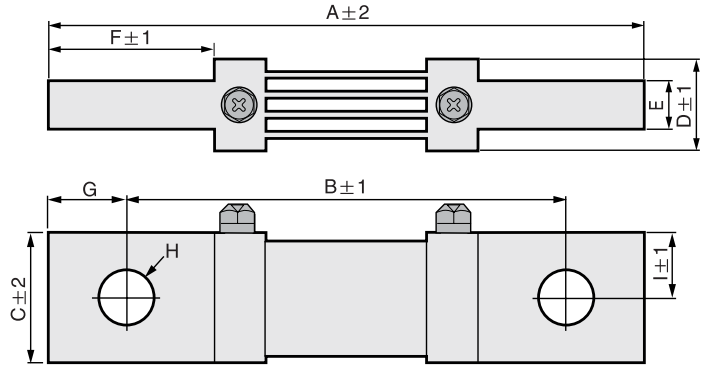
Shunt

ME-4



350~800A (50~100mV)

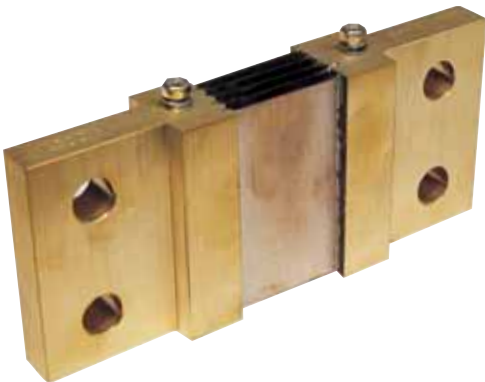
등급 $\pm 0.2\%$, $\pm 0.5\%$, $\pm 1.0\%$



50mV

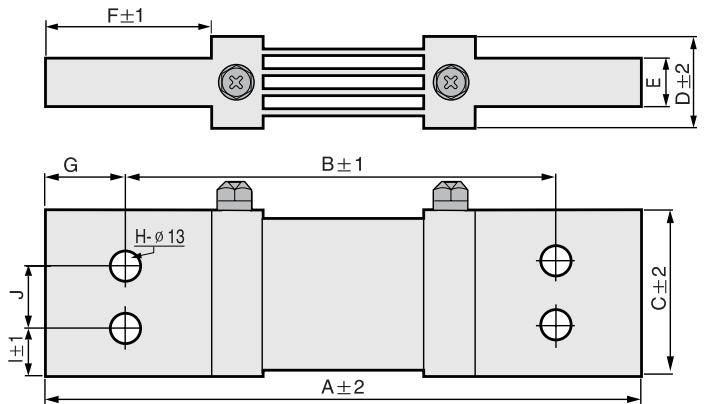
| 1차전류 (A) | A | B | C | D | E | F | G | H | I |
|----------|-----|-----|----|----|----|----|----|---------------|----|
| 350 | 160 | 120 | 32 | 25 | 13 | 45 | 20 | 13 ϕ x 2 | 16 |
| 400 | 160 | 120 | 36 | 25 | 13 | 45 | 20 | 13 ϕ x 2 | 18 |
| 500 | 160 | 120 | 42 | 25 | 13 | 45 | 20 | 13 ϕ x 2 | 20 |
| 600 | 160 | 120 | 46 | 25 | 13 | 45 | 20 | 13 ϕ x 2 | 23 |
| 750 | 170 | 130 | 54 | 30 | 15 | 45 | 20 | 13 ϕ x 2 | 27 |
| 800 | 170 | 130 | 58 | 30 | 15 | 45 | 20 | 13 ϕ x 2 | 29 |
| Option | | | | | | | | | |

ME-5



1000~2000A (50~100mV)

등급 $\pm 0.5\%$, $\pm 1.0\%$

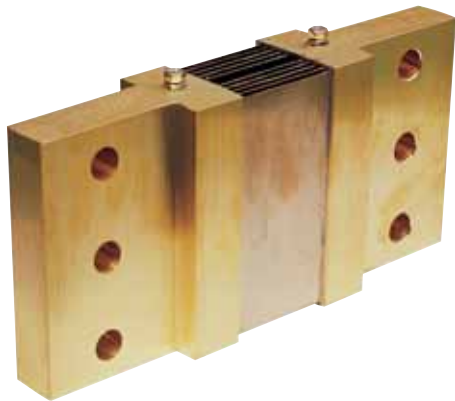


50mV

| 1차전류 (A) | A | B | C | D | E | F | G | H | I | J |
|----------|-----|-----|-----|----|----|----|----|---------------|----|----|
| 1000 | 170 | 130 | 72 | 30 | 15 | 45 | 20 | 13 ϕ x 4 | 11 | 40 |
| 1200 | 170 | 130 | 86 | 30 | 15 | 45 | 20 | 13 ϕ x 4 | 18 | 50 |
| 1500 | 220 | 160 | 78 | 40 | 20 | 65 | 30 | 13 ϕ x 4 | 14 | 40 |
| 2000 | 220 | 160 | 102 | 40 | 20 | 65 | 30 | 13 ϕ x 4 | 22 | 60 |
| Option | | | | | | | | | | |

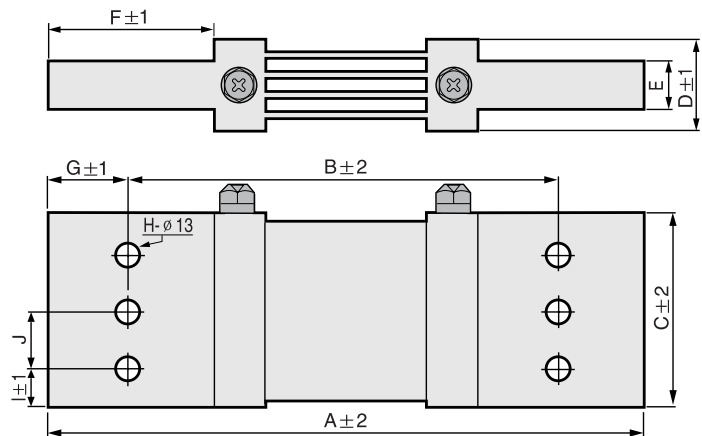


ME-6



2500~3000A (50~100mV)

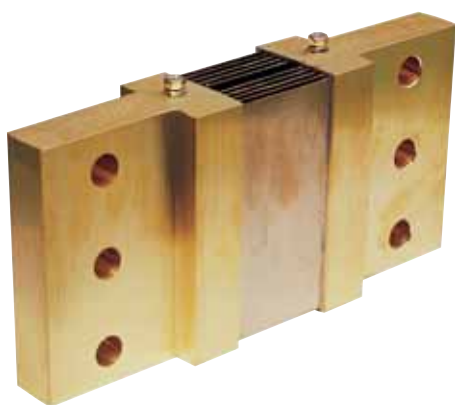
등급 ±1.0%



50mV

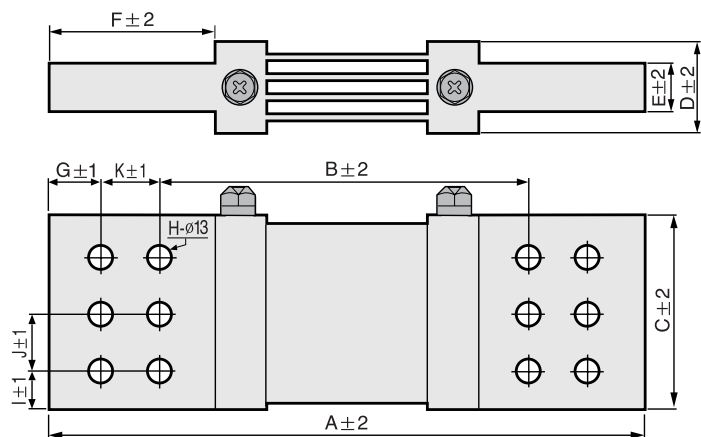
| 1차전류 (A) | A | B | C | D | E | F | G | H | I | J |
|----------|-----|-----|-----|----|----|----|----|-------|----|----|
| 2500 | 230 | 170 | 100 | 40 | 25 | 65 | 30 | 13φx6 | 20 | 30 |
| 3000 | 230 | 170 | 120 | 40 | 25 | 65 | 30 | 13φx6 | 20 | 40 |
| Option | | | | | | | | | | |

ME-7 주문형 산트



2500~5000A (50mV)

등급 ±1.0%



50mV

| 1차전류 (A) | A | B | C | D | E | F | G | H | I | J | K |
|----------|-----|-----|-----|-----|----|----|----|--------|----|----|----|
| 4000 | 280 | 160 | 102 | 80 | 30 | 90 | 30 | 13φx12 | 21 | 30 | 30 |
| 5000 | 290 | 170 | 102 | 100 | 35 | 90 | 30 | 13φx12 | 21 | 30 | 30 |
| Option | | | | | | | | | | | |

용접기용 산트

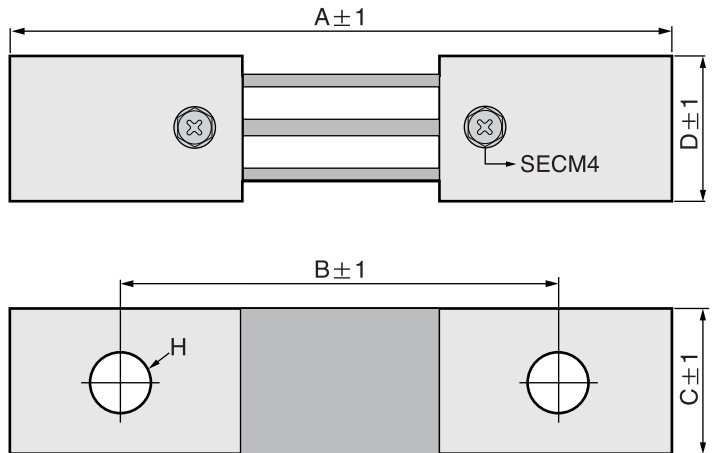
Shunt

ME-10



200~2000A (50~60mV)

등급 ±0.5%, ±1.0%



사 양 / Specification

| 1차전류 (A) | A | | B | C | D | H |
|-------------|------|------|----|----|----|-----------|
| | 50mV | 60mV | | | | |
| 200 | 65 | 68 | 45 | 17 | 12 | 8TAP x 2 |
| 300 | 65 | 68 | 45 | 20 | 12 | 8TAP x 2 |
| 400 | 65 | 68 | 45 | 20 | 20 | 8TAP x 2 |
| 500 | 75 | 78 | 50 | 25 | 20 | 8TAP x 2 |
| 600 | 75 | 78 | 50 | 30 | 20 | 8TAP x 2 |
| 800 | 75 | 78 | 50 | 30 | 28 | 8TAP x 2 |
| 1000 | 85 | 88 | 55 | 35 | 30 | 10TAP x 2 |
| 1200 | 95 | 98 | 55 | 40 | 30 | 10TAP x 2 |
| 1500 | 95 | 98 | 55 | 40 | 38 | 10TAP x 2 |
| 2000 | 115 | 118 | 60 | 50 | 40 | 10TAP x 2 |
| Option | | | | | | |