

# ELD, ELR, GFR TYPE ZERO PHASE SEQUENCE CURRENT TRANSFORMER

## Zero Phase Sequence Current Transformer (ZCT)



### ● 누전경보기, 지락검출계전기용(200mA/100mV)

### Model | WYZR-030~200 (Round type) WYZS-160~260 / 160A~260A (Square type)

\* WY: Manufacture mark Z: Zero current transformer(ZCT) R: Round type S: Square type 030: Inside dia(φ)



#### ● Features

- 투자율이 좋은 규소강판을 사용하여 출력특성을 정밀화 하였습니다.
- 부하의 종류 및 용량에 따라 다양한 구조로 되어있습니다
- ABS 난연성 수지로 자기 소화성이 있는 재질로 되어있습니다.
- ABS 및 PC 난연성 수지로 되어 있습니다.
- Standardized product by high precision using silicon steel with a good permeability
- Various structures by types of load and capacity
- Built-in materials with ABS flame proof resin for self-extinguish stability
- Built-in light weighted structure without using filler inside
- Terminal cover for safety

#### ● Specifications

ITEM	Zero Phase Sequence Current Transformer[ZCT]							
Type	WYZR-030-065	WYZR-080-100	WYZR-120-200	WYZS-160-260	WYZS-160A - 260A	WYZS-054A-104A	WYZS-223-224	WYZS-102-104
Certificate No.	누변 04-2-1	누변 04-3-1	누변 04-4-1	누변 04-5-2	누변 04-5-3			
Rated	1'st 200mA , 2'nd 100mV (connected by 2kΩ)							
ZCT Output conditio	Condition: 200mA / 100mV (connected by 2kΩ) 500mA / 100mV(connected by300Ω) 1000mA / 100mV (connected by120Ω)							
Class	less than 75 ~ 125% (1'st current)							
Operating temperature	-10 ~ +60 °C							
Insulation resistance	2'th - Earth DC500V Megger 100MΩ more							
Dielectric withstand	2'th - Earth AC1, 500V / 1min							
Impulse withstand voltage	2'th - Earth 6kV (1.2 / 50μs) +, - 1times							

#### ● Rating

ITEM	Model		Rated Current(A)	Cable(EV) mm <sup>2</sup>				Weight (kg)
	Type	Insidedia		1P2W	1P3W	3P3W	3P4W	
 환형 Cable through type	WYZR-030	Ø30	100	60	14		8	0.2
	WYZR-050	Ø50	250	150	80		38	0.3
	WYZR-065	Ø65	400	325	150		100	0.4
	WYZR-080	Ø80	600	400	250		200	0.5
	WYZR-100	Ø100	800	500	325		250	0.9
	WYZR-120	Ø120	1000	950	850		725	1.0
	WYZR-150	Ø150	1600	1200	1000		850	1.7
	WYZR-200	Ø200	2000	1500	1200		950	2.3
 각형 Busbar through type	WYZS-160	166 x 30mm	400	6t x 25mm	6t x 25mm		6t x 25mm	0.8
	WYZS-210	210 x 30mm	500	6t x 25mm	6t x 25mm		6t x 25mm	1.6
	WYZS-260	260 x 30mm	630	8t x 30mm	8t x 30mm		8t x 30mm	1.9
	WYZS-160A	166 x 30mm	630	6t x 25mm	6t x 25mm		6t x 25mm	0.8
 각형 Busbar type	WYZS-210A	210 x 30mm	1600	6t x 25mm	6t x 25mm		6t x 25mm	1.6
	WYZS-260A	260 x 30mm	1600	8t x 30mm	8t x 30mm		8t x 30mm	1.9
	WYZS-102(1P2W)	MCCB-BUS Size (30mm)	125	3t x 15mm				0.2
	WYZS-103(3P3W)	MCCB-BUS Size (30mm)	125	3t x 15mm	3t x 15mm			0.2
	WYZS-104(3P4W)	MCCB-BUS Size (30mm)	125	3t x 15mm	3t x 15mm		3t x 15mm	0.4
	WYZS-054A(3P4W)	MCCB-BUS Size (25mm)	50	3t x 15mm	3t x 15mm		3t x 15mm	0.4
	WYZS-104A(3P4W)	MCCB-BUS Size (25mm)	100	3t x 15mm	3t x 15mm		3t x 15mm	0.4
WYZS-223(3P3W)	MCCB-BUS Size (35mm)	250	5t x 20mm	5t x 20mm			0.5	
WYZS-224(3P4W)	MCCB-BUS Size (35mm)	250	5t x 20mm	5t x 20mm		5t x 20mm	0.6	

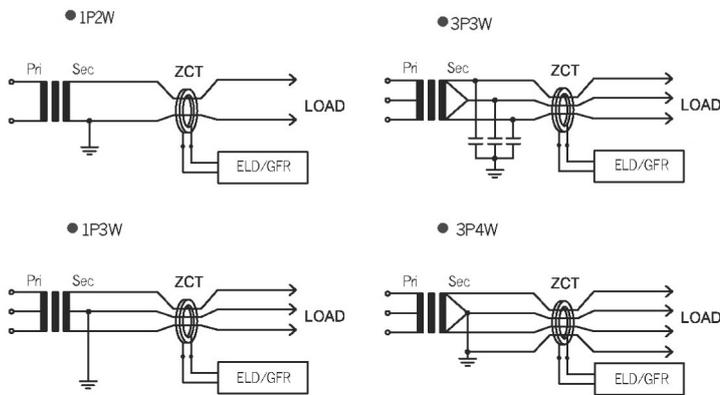
트랜스포머  
REACTOR  
리액터  
무정전압릴레이  
SSR  
전력조정기  
TPR  
스위칭파워  
SMP  
노이즈필터  
N/F  
하모닉필터  
H/F  
서지보호기  
SPD  
보호계전기  
RELAY  
누전경보기  
ELD=GFR  
영상변류기  
ZCT  
판넬메타  
METER  
계기용변성기  
CT=VT  
선트랜  
SHUNT=FA

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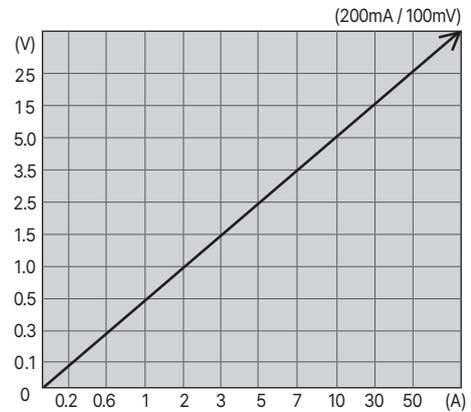
## Dimension

환형, 각형  

### External right connection diagram

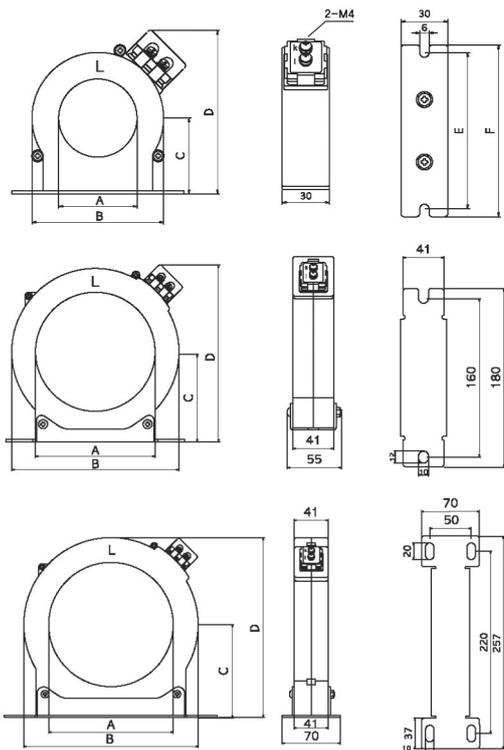


### The output curve of the feature in ZCT



• Condition : the output voltage measured in increased current by attaching the ZCT impedance (2kΩ) to secondary ZCT

### Dimension (Round type)

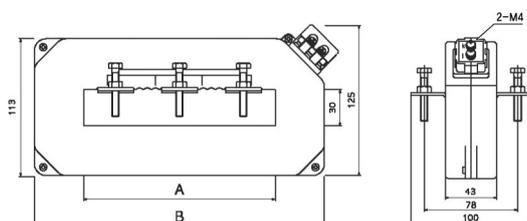


TYPE	A	B	C	D	E	F
WYZR-030	30	59	40	75	80	90
WYZR-050	50	84	48	105	100	110
WYZR-065	65	101	57	120	100	110
WYZR-080	80	120	66	136	120	130

TYPE	A	B	C	D
WYZR-100	100	140	77	155
WYZR-120	120	168	91	179

TYPE	A	B	C	D
WYZR-150	150	210	122	217
WYZR-200	200	270	142	277

### Dimension (Square type)



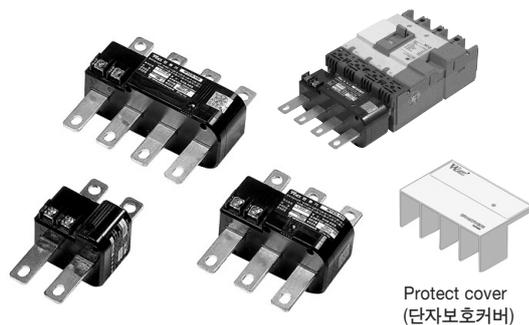
TYPE	A	B
WYZR-160	160	242
WYZR-210	210	292
WYZR-260	260	342

TRANS=NCCT 트랜스포머  
 REACTOR 리액터  
 SSR 무정전압레일  
 TPR 전력조정기  
 SMPSS 스위칭파워  
 NF 노이즈필터  
 H/F 하모닉필터  
 SPD 서지보호기  
 RELAY 보호계전기  
 ELD=GFRL 누전경보기  
 ZCT 영상변류기  
 METER 판넬메타  
 CT=VT 계기용변성기  
 SHUNT=FAAN 션트팬

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## Dimension

Bus-bar 일체형  

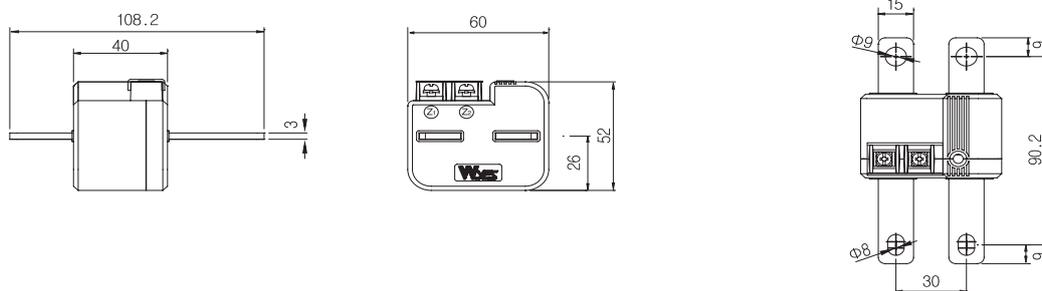


### ● Features

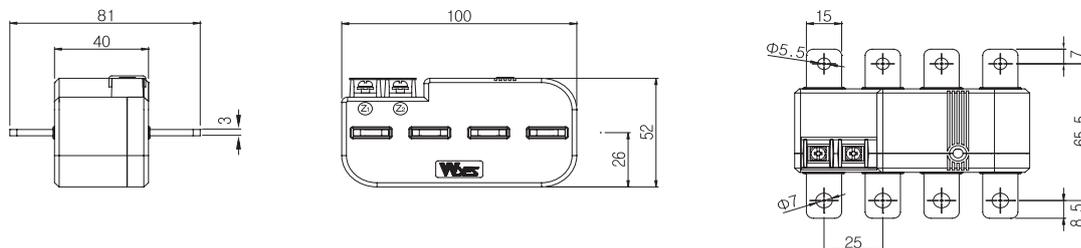
- MCCB 차단기에 직접 탈부착하여 사용할 수 있는 구조
- 1P2W, 3P3W 및 3P4W MCCB에 적용 가능
- 취부가 간편하여 작업 시간 단축
- PC 재질의 구조이며 자기 소화성이 있는 난연 재질임
  - 단자보호커버 부착으로 안전성 확보
- The structure can be used connection directly at the circuit breaker
- It is possible to apply 3P3W and 3P4W MCCB.
- The reduction of working hours because it is installed convenient.
- It is the flame proof material that has the structure of PC material and self-extinguishing.
- The formal approval products of korea institute of fire industry & technology

### ● Dimension (Square type)

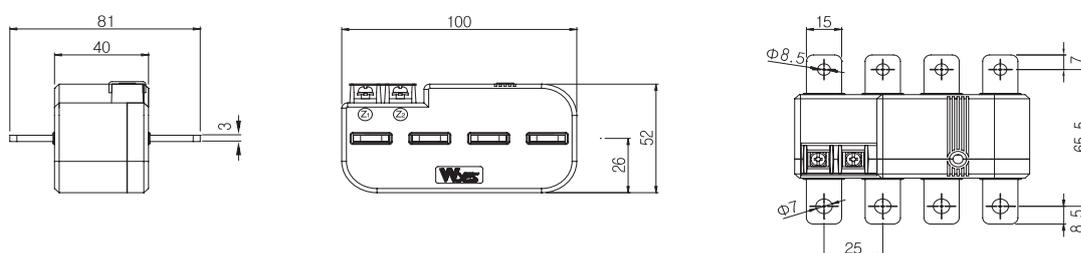
WYZS-102(30mm)



WYZS-054A



WYZS-104A

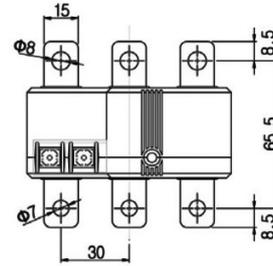
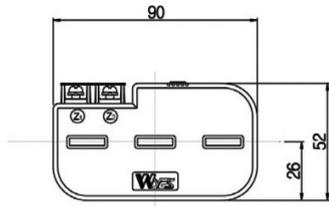
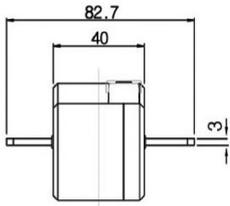


# ZERO PHASE CURRENT TRANSFORMER

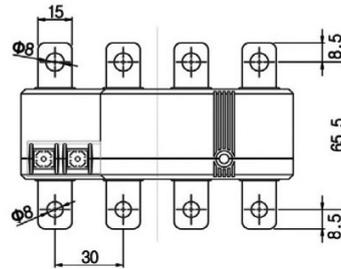
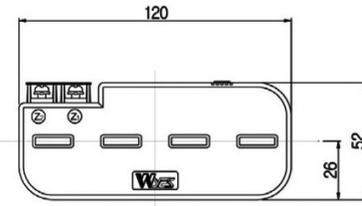
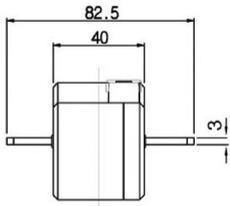
## Dimension

Bus-bar 일체형  

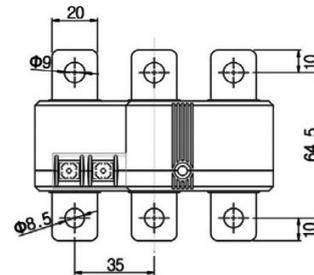
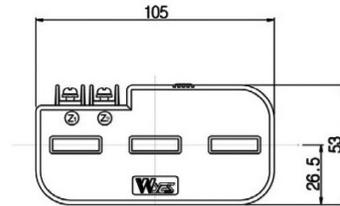
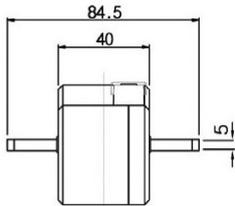
WYZS-103



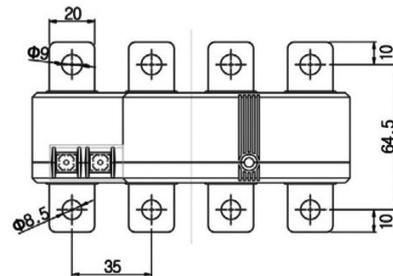
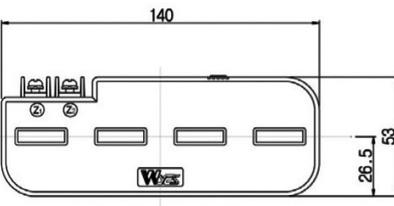
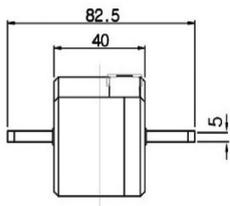
WYZS-104



WYZS-223



WYZS-224



트랜스포머  
TRANS = NCT  
리액터  
REACTOR  
무정전압클래이  
SSR  
전력조정기  
TPR  
스위칭파워  
SMP S  
노이즈필터  
N / F  
하모닉필터  
H / F  
서지보호기  
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RELAY  
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ELD = GFR  
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CT = VT  
선트랜  
SHUNT = FAN