

## Low Voltage Current Transformers

# MR(SR) Series

MR(SR) series current transformer is compact, smaller than other models with the current ratio of the transformer is small, clamshell-style terminal cover is well protected by the second terminal. With related accessories you can use Din rail mounting, a current from 5A to 30000A

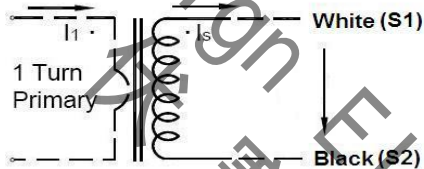
### ◆ Features

- Safe, easy to install, portable
- Wide inner window, allowing clamping of big cables or bus-bars
- Wide range of sizes to accommodate all the existing installations

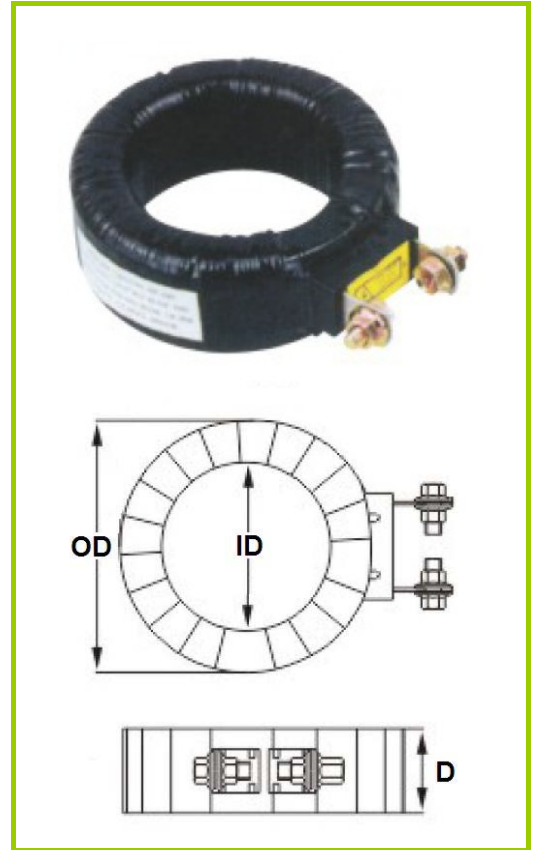
### ◆ Applications

- Current measurement, monitoring and protection for electrical wiring and equipment.
- Current and power measurement for electric motors, lighting, air compressor, heating and ventilation system, air-condition equipment and automation – control system.
- Current, power and energy monitoring device.
- Relay protection device.

### ◆ Circuit connection diagram



### ◆ Technique Index



Electrical Parameter	
Frequency	50-60Hz
Rated Input	5A-30000A
Measuring range	5%In-130%In
Rated Output	0-5A
Ratio	≤ ± 0.2%
Phase angle	≤ ±10min
Dielectric strength	3.0KV/1mA/1min
Insulation Resistance	DC500V/100MΩ min

Mechanical Parameter	
Case	PC /UL94-V0
Bobbin	PBT
Core	Silicon steel
Internal structure	Epoxy
Construction	Screw
Operating Temp	-25℃~+75℃
Operating Humidity	≤85%
Output Connection	Terminal

### ◆ Type Selection (Output: 1A/5A)

Mfg P/N	Ratio	Dimensions(mm)			Class(0.2)/Burden(VA)				Class(0.5)/Burden(VA)				Class(1.0)/Burden(VA)			
		ID	OD	D	2.5	5.0	10	15	5.0	10	15	30	10	15	30	40
MR-30	60/5	30	70	→	50	---	---	---	50	---	---	---	50	---	---	---
MR-30	100/5	30	70	→	40	50	---	---	40	50	---	---	40	50	---	---
MR-30	120/5	30	70	→	40	50	---	---	40	50	---	---	40	50	---	---
MR-30	150/5	30	70	→	40	40	---	---	40	40	---	---	40	40	---	---
MR-30	200/5	30	70	→	40	40	---	---	40	40	---	---	40	40	---	---
MR-30	250/5	30	70	→	35	40	50	---	35	40	50	---	35	40	50	---

# MR(SR) Series

Mfg P/N	Ratio	Dimensions(mm)			Class(0.2)/Burden(VA)				Class(0.5)/Burden(VA)				Class(1.0)/Burden(VA)			
		ID	OD	D	2.5	5.0	10	15	5.0	10	15	30	10	15	30	40
MR-40	100/5	40	80	→	40	---	---	---	40	---	---	---	40	---	---	---
MR-40	150/5	40	80	→	40	---	---	---	40	---	---	---	40	---	---	---
MR-40	200/5	40	80	→	40	50	---	---	40	50	---	---	40	50	---	---
MR-40	300/5	40	80	→	35	40	---	---	35	40	---	---	35	40	---	---
MR-45	200/5	45	85	→	40	40	45	45	40	40	45	45	40	40	45	50
MR-45	250/5	45	85	→	40	40	45	45	40	40	45	45	40	40	45	50
MR-45	300/5	45	85	→	35	40	45	45	35	40	45	45	35	40	45	50
MR-45	400/5	45	85	→	35	40	45	45	35	40	45	45	35	40	45	50
MR-60	300/5	60	95	→	40	40	45	45	40	40	45	45	40	40	45	45
MR-60	400/5	60	95	→	40	40	45	45	40	40	45	45	40	40	45	45
MR-60	500/5	60	95	→	35	40	45	45	35	40	45	45	35	40	45	45
MR-60	800/5	60	95	→	30	40	45	45	35	40	45	45	35	40	45	45
MR-85	600/5	85	125	→	30	40	45	45	30	40	45	45	30	40	45	45
MR-85	800/5	85	125	→	30	40	45	45	30	40	45	45	30	40	45	45
MR-85	1000/5	85	125	→	30	40	40	40	30	40	40	40	30	40	40	40
MR-85	1600/5	85	125	→	30	30	40	40	30	30	40	40	30	30	40	40
MR-110	1500/5	110	150	→	30	30	30	40	30	30	30	40	30	30	30	40
MR-110	2000/5	110	150	→	30	30	30	30	30	30	30	30	30	30	30	30
MR-110	2500/5	110	150	→	30	30	30	30	30	30	30	30	30	30	30	30
MR-110	3000/5	110	150	→	30	30	30	30	30	30	30	30	30	30	30	30
MR-125	2000/5	125	165	→	30	30	30	30	30	30	30	30	30	30	30	30
MR-125	3000/5	125	165	→	30	30	30	30	30	30	30	30	30	30	30	30
MR-125	4000/5	125	165	→	30	30	30	30	30	30	30	30	30	30	30	30
MR-125	5000/5	125	165	→	30	30	30	30	30	30	30	30	30	30	30	30
MR-150	2000/5	150	190	→	30	30	30	30	30	30	30	30	30	30	30	30
MR-150	3000/5	150	190	→	30	30	30	30	30	30	30	30	30	30	30	30
MR-150	4000/5	150	190	→	30	30	30	30	30	30	30	30	30	30	30	30
MR-150	6000/5	150	190	→	30	30	30	30	30	30	30	30	30	30	30	30
MR-185	3000/5	185	225	→	30	30	30	30	30	30	30	30	30	30	30	30
MR-185	4000/5	185	225	→	30	30	30	30	30	30	30	30	30	30	30	30
MR-185	5000/5	185	225	→	30	30	30	30	30	30	30	30	30	30	30	30
MR-185	6000/5	185	225	→	30	30	30	30	30	30	30	30	30	30	30	30
MR-210	5000/5	210	250	→	30	30	30	30	30	30	30	30	30	30	30	30
MR-210	6000/5	210	250	→	30	30	30	30	30	30	30	30	30	30	30	30
MR-210	8000/5	210	265	→	30	30	30	30	30	30	30	30	30	30	30	30
MR-210	10000/5	210	265	→	30	30	30	30	30	30	30	30	30	30	30	30
MR-300	10000/5	300	380	→	30	30	30	30	30	30	30	30	30	30	30	30
MR-300	20000/5	300	380	→	30	30	30	30	30	30	30	30	30	30	30	30
MR-300	30000/5	300	380	→	30	30	30	30	30	30	30	30	30	30	30	30

## Low Voltage Current Transformers

# PR(BR) Series

PR(BR) series current transformer is compact, smaller than other models with the current ratio of the transformer is small, clamshell-style terminal cover is well protected by the second terminal. With related accessories you can use Din rail mounting, a current from 5A to 5000A

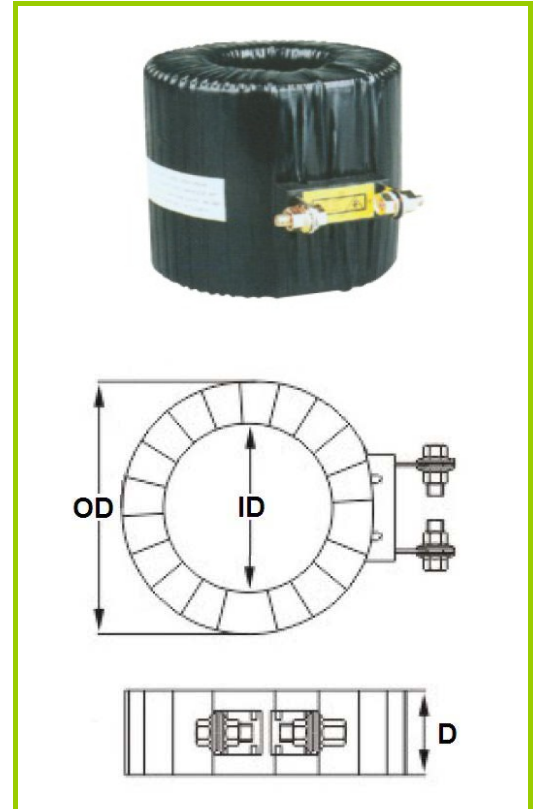
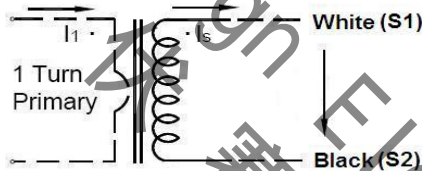
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- Current, power and energy monitoring device.
- Relay protection device.

### ◆ Circuit connection diagram



### ◆ Technique Index

Electrical Parameter	
Frequency	50-60Hz
Rated Input	5A-5000A
Measuring range	10P15
Rated Output	0-5A
Ratio	≤ ± 10%
Phase angle	≤ ±90min
Dielectric strength	3.0KV/1mA/1min
Insulation Resistance	DC500V/100MΩ min

Mechanical Parameter	
Case	PC /UL94-V0
Bobbin	PBT
Core	Silicon steel
Internal structure	Epoxy
Construction	Screw
Operating Temp	-25°C ~ +75°C
Operating Humidity	≤85%
Output Connection	Terminal

### ◆ Type Selection (Output: 1A/5A)

Mfg P/N	Ratio	Dimensions(mm)			5P10				10P10				10P15			
		ID	OD	D	2.5	5.0	10	15	5.0	10	15	30	10	15	30	40
PR-30	100/5	30	70	→	50	60	75	100	85	---	---	---	---	---	---	---
PR-30	120/5	30	70	→	50	60	75	100	80	---	---	---	---	---	---	---
PR-30	150/5	30	70	→	50	60	75	100	80	100	110	---	---	---	---	---
PR-30	200/5	30	70	→	50	60	75	100	60	65	110	---	---	---	---	---
PR-30	250/5	30	70	→	40	50	65	95	60	65	85	---	---	---	---	---
PR-30	300/5	30	70	→	40	40	40	55	60	70	80	---	---	---	---	---

# PR(BR) Series

Mfg P/N	Ratio	Dimensions(mm)			5P10				10P10				10P15			
		ID	OD	D	2.5	5.0	10	15	5.0	7.5	10	15	7.5	10	15	20
PR-40	100/5	40	80	→	50	60	75	110	50	---	---	---	50	60	---	---
PR-40	150/5	40	80	→	50	50	65	105	50	50	---	---	50	50	---	---
PR-40	200/5	40	80	→	50	50	65	100	50	60	---	---	50	60	---	---
PR-40	300/5	40	80	→	50	60	75	100	50	60	---	---	50	60	---	---
PR-45	200/5	45	85	→	50	60	75	110	50	60	80	110	50	60	80	110
PR-45	250/5	45	85	→	50	50	65	105	50	50	75	105	50	60	75	105
PR-45	300/5	45	85	→	50	50	65	100	50	40	40	100	50	60	65	100
PR-45	400/5	45	85	→	50	60	75	100	50	60	75	100	50	60	65	100
PR-60	300/5	60	95	→	50	60	75	110	50	60	80	110	50	60	80	110
PR-60	400/5	60	95	→	50	50	65	105	50	50	75	105	50	60	75	105
PR-60	500/5	60	95	→	50	50	65	100	50	40	40	100	50	60	65	100
PR-60	800/5	60	95	→	50	60	75	100	50	60	75	100	50	60	65	100
PR-85	600/5	85	125	→	40	50	65	95	40	50	65	95	40	50	65	95
PR-85	800/5	85	125	→	40	50	65	95	40	50	65	95	40	50	65	95
PR-85	1000/5	85	125	→	40	50	50	90	40	50	50	90	40	50	50	90
PR-85	1600/5	85	125	→	40	50	50	85	40	50	50	85	40	50	50	85
PR-110	1500/5	110	150	→	40	50	65	95	40	50	65	95	40	50	65	95
PR-110	2000/5	110	150	→	40	50	65	95	40	50	65	95	40	50	65	95
PR-110	2200/5	110	150	→	40	50	50	90	40	50	50	90	40	50	50	90
PR-110	2500/5	110	150	→	35	50	50	85	40	50	50	85	40	50	50	85
PR-125	2000/5	125	165	→	40	50	65	95	40	50	65	95	40	50	65	95
PR-125	2500/5	125	165	→	40	50	65	95	40	50	65	95	40	50	65	95
PR-125	3000/5	125	165	→	35	50	50	90	35	50	50	90	40	50	50	90
PR-125	4000/5	125	165	→	30	50	50	85	30	50	50	85	40	50	50	85
PR-150	2000/5	150	190	→	40	50	65	95	40	50	65	95	40	50	65	95
PR-150	2500/5	150	190	→	40	50	65	95	40	50	65	95	40	50	65	95
PR-150	3000/5	150	190	→	35	50	50	90	35	50	50	90	40	50	50	90
PR-150	4000/5	150	190	→	30	50	50	85	30	50	50	85	40	50	50	85
PR-185	2000/5	185	225	→	30	50	65	95	30	30	30	30	30	30	30	30
PR-185	2500/5	185	225	→	30	50	65	95	30	30	30	30	30	30	30	30
PR-185	3000/5	185	225	→	30	45	50	90	30	30	30	30	30	30	30	30
PR-185	4000/5	185	225	→	30	40	50	85	30	30	30	30	30	30	30	30
PR-210	2000/5	210	250	→	30	50	65	95	30	30	30	30	30	30	30	30
PR-210	2500/5	210	250	→	30	50	65	95	30	30	30	30	30	30	30	30
PR-210	3000/5	210	265	→	30	45	50	90	30	30	30	30	30	30	30	30
PR-210	4000/5	210	265	→	30	40	50	85	30	30	30	30	30	30	30	30
PR-300	2000/5	300	380	→	30	50	65	95	30	30	30	30	30	30	30	30
PR-300	3000/5	300	380	→	30	50	65	95	30	30	30	30	30	30	30	30
PR-300	5000/5	300	380	→	30	45	50	90	30	30	30	30	30	30	30	30