

## CC3L round hole through-type current transformers

Primary current: 60 to 750A  
Secondary current: 5A or 1A

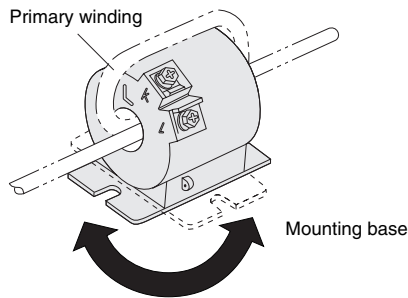
### ■ Description

The CC3L transformers are round-hole through-types. A double-mold structure gives CC3L transformers excellent moisture resistance and good insulation properties.

The CT ratio can be changed freely by changing the number of primary winding turns. Consequently, these CTs are highly adaptable and economical.

Select from a lineup of three types with rated burdens of 5VA, 15VA, and 40VA.

The mounting base can be rotated anywhere in a 90° range to facilitate installation.



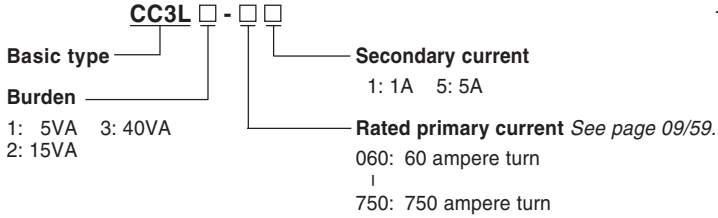
### ■ Types and ratings

Burden (VA)	Rated primary current (A)	Secondary current (A)	Accuracy class	Thermal limit current	Max voltage (kV rms.)	Dielectric strength (kV 1min)	Diameter of window (mm)	Mass (kg)	Type* (secondary current: □)		
5	60	5 or 1	1.0	40 times rated primary current, 1 second	1.15	4.0	26	1.9	CC3L1-060□ CC3L1-075□		
	100						23	0.5	CC3L1-100□ CC3L1-120□ CC3L1-150□ CC3L1-160□ CC3L1-180□		
	120							0.4	CC3L1-200□		
	150								32	0.6	CC3L1-250□ CC3L1-300□
	160									0.5	CC3L1-400□
	180										50
	200								0.6	CC3L1-600□ CC3L1-750□	
	250	5 or 1					50	0.7	CC3L1-500□		
	300							0.6	CC3L1-600□ CC3L1-750□		
	400										
15	100	5 or 1	1.0	40 times rated primary current, 1 second	1.15	4.0	26	2.0	CC3L2-100□ CC3L2-120□		
	120						25	1.0	CC3L2-150□ CC3L2-160□ CC3L2-180□ CC3L2-200□		
	150							32	0.6	CC3L2-240□ CC3L2-250□ CC3L2-300□ CC3L2-400□	
	160								50	0.8	CC3L2-500□ CC3L2-600□ CC3L2-700□
	180										
	200										
	240	5 or 1					50	0.8	CC3L2-500□ CC3L2-600□ CC3L2-700□		
	250										
	300										
	400										
40	150	5 or 1	1.0	40 times rated primary current, 1 second	1.15	4.0	26	2.0	CC3L3-150□ CC3L3-160□ CC3L3-180□ CC3L3-200□		
	160						32	1.2	CC3L3-240□ CC3L3-250□ CC3L3-300□ CC3L3-400□		
	180							50	0.8	CC3L3-5005 CC3L3-6005 CC3L3-7505	
	200										
	240										
	250										
	300	5					50	0.8	CC3L3-5005 CC3L3-6005 CC3L3-7505		
	400										
	500										
	600										
750											

Notes: \* Replace the □ mark by the secondary current code. 5: 5A 1: 1A

# Instrument Transformers Through-type CT/CC3L

## ■ Type number nomenclature



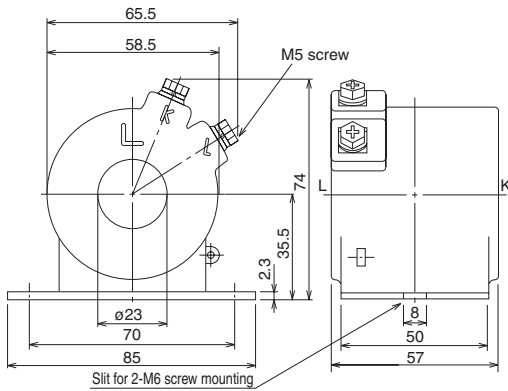
## ■ Ordering information

Specify the following:

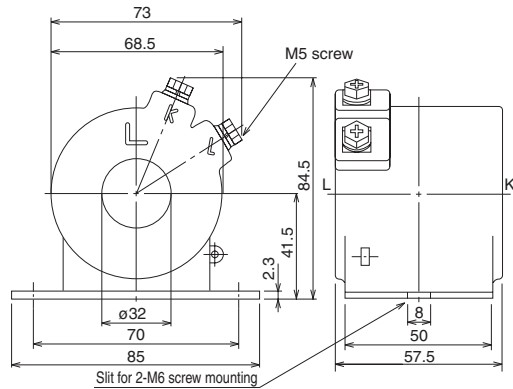
1. Type number

## ■ Dimensions, mm

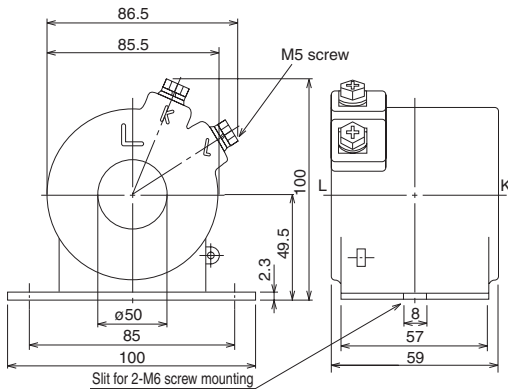
CC3L1: 100, 120, 150, 160, 180, 200A



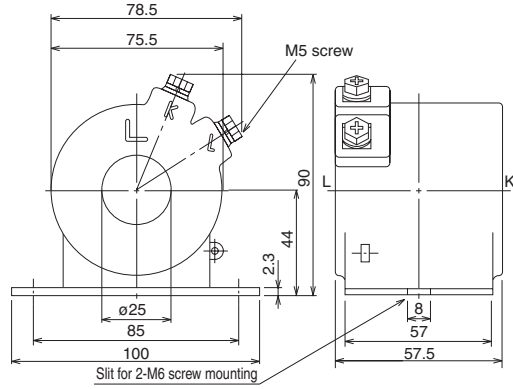
CC3L1: 250, 300, 400A  
CC3L2: 240, 250, 300, 400A



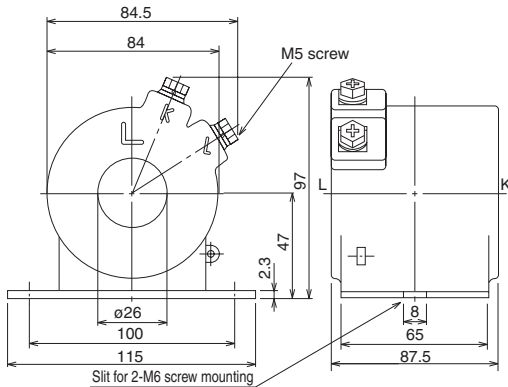
CC3L1, L2, L3: 500, 600, 750A



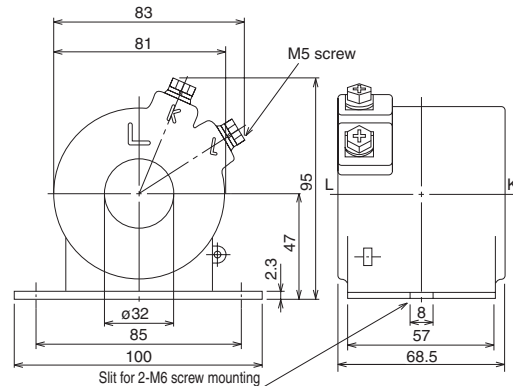
CC3L2: 150, 160, 180, 200A



CC3L1: 60, 75A CC3L2: 100, 120A  
CC3L3: 150, 160, 180, 200A



CC3L3: 240, 250, 300, 400A



### ■ Number of turns in the primary winding and CT ratio

The following table lists the rated primary current, number of turns of primary windings, and the maximum nominal cross-section area of the 600V IV cable that can pass through. (ø indicates the diameter of a single wire.) The table data satisfies allowable current for

a 600V IV cable at an ambient temperature of 40°C.

#### ● 5VA CC3L1

Rated primary current (Ampere turn AT)	Primary current (A)	No. of turns	Primary conductor (mm <sup>2</sup> )
60	10	6	5.5
	15	4	14
	20	3	22
	30	2	22
75	60	1	150
	15	5	8
	25	3	22
	75	1	150
100	10	10	ø2
	20	5	8
	25	4	14
	50	2	22
120	100	1	150
	15	8	5.5
	20	6	8
	30	4	14
150	40	3	22
	60	2	22
	120	1	150
	15	10	ø2
160	25	6	8
	30	5	8
	50	3	22
	75	2	22
180	150	1	150
	20	8	5.5
	40	4	14
	80	2	22
200	160	1	150
	20	10	ø2
	25	8	5.5
	40	5	8
250	50	4	14
	200	1	150
	25	10	8
	50	5	22
300	125	2	60
	250	1	325
	30	10	8
	50	6	14
400	60	5	22
	75	4	38
	100	3	60
	150	2	60
500	300	1	325
	40	10	8
	50	8	14
	100	4	38
600	400	1	325
	50	10	22
	100	5	60
	125	4	100
750	250	2	200
	500	1	500
	60	10	22
	75	8	38
750	100	6	60
	150	4	100
	200	3	150
	300	2	200
750	600	1	500
	75	10	22
	150	5	60
	750	1	200 2 pcs.

#### ● 15VA CC3L2

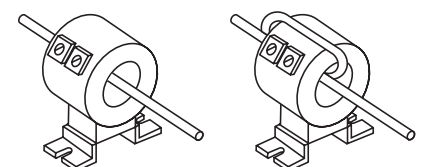
Rated primary current (Ampere turn AT)	Primary current (A)	No. of turns	Primary conductor (mm <sup>2</sup> )
100	10	10	5.5
	20	5	14
	25	4	22
	50	2	38
120	100	1	200
	15	8	8
	20	6	14
	30	4	22
150	40	3	22
	60	2	38
	120	1	200
	10	15	3.5
160	15	10	5.5
	25	6	8
	30	5	14
	50	3	22
180	75	2	38
	150	1	200
	20	8	8
	40	4	22
200	80	2	38
	100	1	200
	20	9	5.5
	30	6	8
240	60	3	22
	90	2	38
	180	1	200
	20	10	5.5
250	25	8	8
	40	5	14
	50	4	22
	100	2	38
300	200	1	200
	30	8	8
	40	6	14
	60	4	38
400	80	3	60
	120	2	60
	240	1	325
	25	10	8
500	50	5	22
	125	2	60
	250	1	325
	30	10	8
600	50	6	14
	60	5	22
	75	4	38
	100	3	60
750	150	2	60
	300	1	325
	40	10	8
	50	8	14
750	100	4	38
	400	1	325
	50	10	22
	100	5	60
750	125	4	100
	250	2	200
	500	1	500
	60	10	22
750	75	8	38
	100	6	60
	150	4	100
	200	3	150
750	300	2	200
	600	1	500
	75	10	22
	150	5	60
750	750	1	200 2 pcs.

#### ● 40VA CC3L3

Rated primary current (Ampere turn AT)	Primary current (A)	No. of turns	Primary conductor (mm <sup>2</sup> )
150	10	15	3.5
	15	10	5.5
	25	6	14
	30	5	14
160	50	3	22
	75	2	38
	150	1	200
	20	8	8
180	40	4	22
	80	2	38
	160	1	200
	20	9	5.5
200	30	6	14
	60	3	22
	90	2	38
	180	1	200
240	25	8	8
	40	5	14
	50	4	22
	100	2	38
250	200	1	200
	40	6	14
	60	4	22
	80	3	38
300	120	2	60
	240	1	325
	25	10	8
	50	5	22
400	125	2	60
	250	1	325
	30	10	8
	50	6	14
500	60	5	22
	75	4	38
	100	3	60
	150	2	60
600	300	1	325
	40	10	8
	50	8	14
	100	4	38
750	400	1	325
	50	10	22
	100	5	60
	125	4	100
750	250	2	200
	500	1	500
	60	10	22
	75	8	38
750	100	6	60
	150	4	100
	200	3	150
	300	2	200
750	600	1	500
	75	10	22
	150	5	60
	750	1	200 2 pcs.

Example: 100AT, secondary 5A

- 1-ampere turn 100/5A
- 2-ampere turn 50/5A



Note: The rated primary current is given for one turn of the primary winding.