

## CC3L round hole through-type current transformers

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

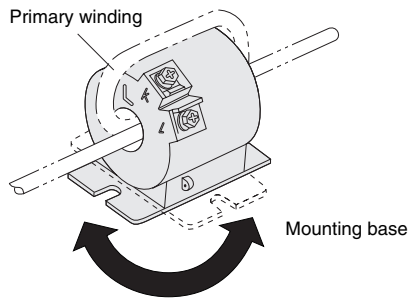
### Description

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.



CC3L

AF00-103

### 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	0.7
	200								0.6	CC3L1-600□ CC3L1-750□		
	250	5 or 1					50	0.7	CC3L1-500□			
	300							0.6	CC3L1-600□ CC3L1-750□			
	400							0.5	CC3L1-400□			
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									5 or 1	0.8	CC3L2-500□ CC3L2-600□ CC3L2-700□
	200										0.6	CC3L2-240□ CC3L2-250□ CC3L2-300□ CC3L2-400□
	240	5 or 1					50	0.8	CC3L2-500□ CC3L2-600□ CC3L2-700□			
	250							0.8	CC3L2-500□ CC3L2-600□ CC3L2-700□			
	300							0.8	CC3L2-500□ CC3L2-600□ CC3L2-700□			
	400							0.8	CC3L2-500□ CC3L2-600□ CC3L2-700□			
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								5	0.8	CC3L3-5005 CC3L3-6005 CC3L3-7505	
	240									5	0.8	CC3L3-5005 CC3L3-6005 CC3L3-7505
	250										0.8	CC3L3-5005 CC3L3-6005 CC3L3-7505
	300	5					0.8	CC3L3-5005 CC3L3-6005 CC3L3-7505				
	400						0.8	CC3L3-5005 CC3L3-6005 CC3L3-7505				
	500	5					0.8	CC3L3-5005 CC3L3-6005 CC3L3-7505				
	600						0.8	CC3L3-5005 CC3L3-6005 CC3L3-7505				
750	0.8		CC3L3-5005 CC3L3-6005 CC3L3-7505									

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

5: 5A 1: 1A



### ■ 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

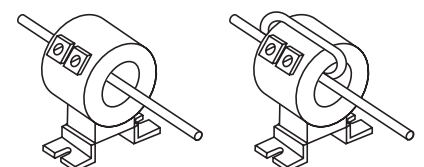
Rated primary current (Ampere turn AT)	Primary current (A)	No. of turns	Primary conductor (mm <sup>2</sup> )
100	10	10	5.5
	20	5	14
	25	4	22
	50	2	38
120	100	1	200
	15	8	8
	20	6	14
	30	4	22
150	40	3	22
	60	2	38
	120	1	200
	10	15	3.5
160	15	10	5.5
	25	6	8
	30	5	14
	50	3	22
180	75	2	38
	150	1	200
	20	8	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.