

Instrument Transformers Through-type CT/CC3L

CC3L round hole through-type current transformers

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

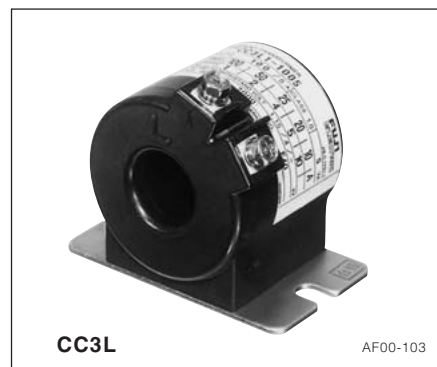
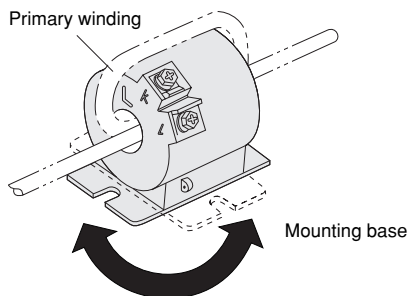
Description

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□
	75								CC3L1-075□
	100						23	0.5	CC3L1-100□
	120								CC3L1-120□
	150								CC3L1-150□
	160								CC3L1-160□
	180								CC3L1-180□
	200	0.4					CC3L1-200□		
	250	32					0.6	CC3L1-250□	
	300							CC3L1-300□	
400	0.5		CC3L1-400□						
500	50	0.7	CC3L1-500□						
600			0.6	CC3L1-600□					
750				CC3L1-750□					
15	100	5 or 1	1.0	40 times rated primary current, 1 second	1.15	4.0	26	2.0	CC3L2-100□
	120								CC3L2-120□
	150						25	1.0	CC3L2-150□
	160								CC3L2-160□
	180								CC3L2-180□
	200	CC3L2-200□							
	240	32					0.6	CC3L2-240□	
	250							CC3L2-250□	
	300							CC3L2-300□	
	400	CC3L2-400□							
500	50	0.8	CC3L2-500□						
600			CC3L2-600□						
750			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□
	160								CC3L3-160□
	180						32	1.2	CC3L3-180□
	200								CC3L3-200□
	240								CC3L3-240□
	250	50					0.8	CC3L3-250□	
	300							CC3L3-300□	
	400							CC3L3-400□	
	500	5					0.8	CC3L3-5005	
	600							CC3L3-6005	
750	CC3L3-7505								

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

5: 5A 1: 1A

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■ 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 ²)
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	8	5.5
	40	4	14
	80	2	22
300	180	1	150
	30	10	8
	50	6	14
	60	5	22
400	100	3	22
	150	2	22
	180	1	150
	40	10	8
500	50	8	14
	100	4	38
	400	1	325
	50	10	22
600	100	5	60
	125	4	100
	250	2	200
	500	1	500
750	60	10	22
	75	8	38
	100	6	60
	150	4	100
750	200	3	150
	300	2	200
	600	1	500
	75	10	22
750	150	5	60
	750	1	200 2 pcs.

● 15VA CC3L2

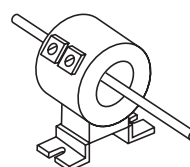
Rated primary current (Ampere turn AT)	Primary current (A)	No. of turns	Primary conductor (mm ²)
100	10	10	5.5
	20	5	14
	25	4	22
	50	2	38
120	100	1	200
	15	8	8
	20	6	14
	30	4	22
150	40	3	22
	60	2	38
	120	1	200
	10	15	3.5
160	15	10	5.5
	25	6	8
	30	5	14
	50	3	22
180	75	2	38
	150	1	200
	20	8	8
	40	4	22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

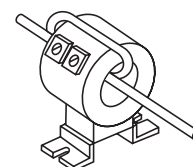
Rated primary current (Ampere turn AT)	Primary current (A)	No. of turns	Primary conductor (mm ²)
150	10	15	3.5
	15	10	5.5
	25	6	14
	30	5	14
160	50	3	22
	75	2	38
	150	1	200
	20	8	8
180	40	4	22
	80	2	38
	160	1	200
	20	9	5.5
200	30	6	14
	60	3	22
	90	2	38
	180	1	200
240	40	6	14
	60	4	22
	80	3	38
	120	2	60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