

## Description

**NOVA** Current transformers are special transformers for the proportional transformation of high currents into direct measurable values. Their construction and physical operating principle enable an electrolytic separation of the primary circuit from the measured circuit, thereby providing a safety mechanism when switching on the measuring appliance in the event of a fault.

## Specification

The products complied with VDE 0414, BS7262 and IEC 185 standard.	
Primary current	30A-5000A
Secondary current	5A or 1A
Standard approval	VDE0414, BS7626, IEC185
Maximum voltage	0.72kV
Frequency	50 - 60Hz
Rated load	5VA - 30VA
Dielectric strength	2kV (1 minute)
Class	0.5, 1.0
Short-time thermal current	50kA
Rated security coefficient	FS5
Ambient temperature	-5 ~ 55°C
Operating humidity	up to 95%

NOVA® measuring current transformer is an encapsulated type which intended to supply to indicative devices, integrated meter and similar apparatus.

They are characterized by their accuracy and for saturating at moderate over current. This effect protects the measuring instruments from possible over current.

## Technical Data

Burden is the impedance of the secondary circuit in ohms and power factor. For the measurement or protection relay operating via a current transformer, in order to operate them, the primary current has to induce the power required in the secondary current of the instrument or relay.

This induced power must be equal or higher than the losses in the power line + consumption of the measurement instrument or protection relays.

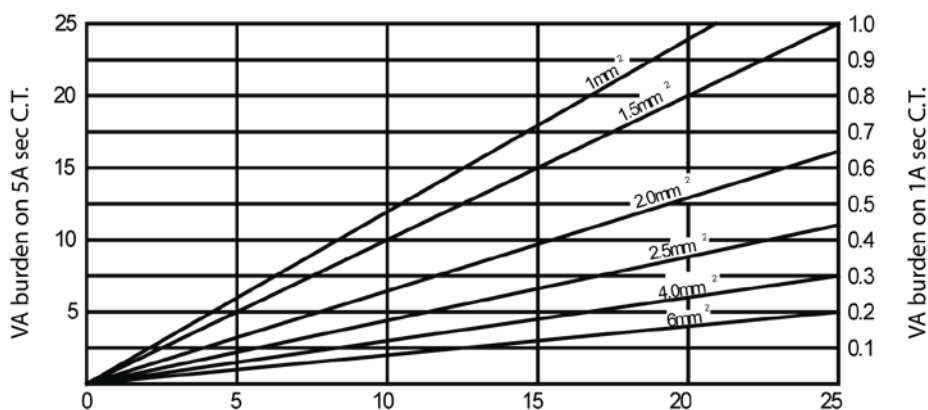
The burden imposed on a current transformer consist mainly of:

- The impedance of wiring cable between current transformer and instruments/relay
- The impedance of the instrument/relay
- The sum of the above constitute the external burden required

Table illustrating some typical instruments and its typical consumption

Instrument	Burden consumed
Moving iron instruments	0.3 – 15VA
Moving coil instruments	0.5VA
Analogue power meter	0.2 – 2.5VA
Maximum demand meter	2.5 – 5.0VA
Digital meter	0.5 – 1.0VA
Energy meter	1.0 – 1.5VA
Recording instruments	2.0 – 5.0VA

Table guide for wiring cable burden



Distance (double wire run) in meters from C.T. to the instrument or relay

## Selection Guide

WINDOWS TYPE				Bar : 30 x 10 mm.
Type	Rated current (A)	Rated power (VA)		Weight (kg)
		Class : 1.0	Class : 1.5	
NCT-30	30/5	-	1	0.38
NCT-30	50/5	-	1	0.38
NCT-30	60/5	-	1	0.38
NCT-30	80/5	1.5	2.5	0.38
NCT-30	100/5	2.5	5	0.38

WINDOWS TYPE				Bar : 40 x 10 mm.
Type	Rated current (A)	Rated power (VA)		Weight (kg)
		Class : 0.5	Class : 1.0	
NCT-40	150/5	5	10	0.40
NCT-40	200/5	5	10	0.40
NCT-40	250/5	5	10	0.40
NCT-40	300/5	5	10	0.40
NCT-40	400/5	5	10	0.40

WINDOWS TYPE				Bar : 60 x 20 mm.
Type	Rated current (A)	Rated power (VA)		Weight (kg)
		Class : 0.5	Class : 1.0	
NCT-60	500/5	10	15	0.60
NCT-60	600/5	10	15	0.60
NCT-60	750/5	10	15	0.60
NCT-60	800/5	10	15	0.60
NCT-60	1000/5	10	15	0.60

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WINDOWS TYPE				Bar : 100 x 10 mm. or : 80 x 30 mm.
Type	Rated current (A)	Rated power (VA)		Weight (kg)
		Class : 0.5	Class : 1.0	
NCT-100	1000/5	15	15	0.80
NCT-100	1200/5	15	15	0.94
NCT-100	1500/5	15	15	1.10
NCT-100	2000/5	15	15	1.20
NCT-100	2500/5	15	15	1.40
NCT-100	3000/5	15	15	1.60

WINDOWS TYPE				Bar : 130 x 12 mm. or : 125 x 57 mm
Type	Rated current (A)	Rated power (VA)		Weight (kg)
		Class : 0.5	Class : 1.0	
NCT-125	1500/5	15	30	1.00
NCT-125	2000/5	15	30	1.15
NCT-125	2500/5	15	30	1.45
NCT-125	3000/5	15	30	1.60
NCT-125	4000/5	15	30	1.90
NCT-125	5000/5	15	30	2.20