

# CTS SPLIT CORE POWER QUALITY CURRENT TRANSFORMER MINI SERIES

Split current transformers for the measurement of AC loads and Power Quality analysis



The split current transformers **CTS Split Core Current Transducer Mini Series** suitable for the measurement of AC loads, are equipped with a snap-on, screwless mounting system. The ideal solution for an easy and time saving installation of the Electrex instruments avoiding to disconnect the primary cables. The high accuracy, even at low currents / powers, makes possible to be used also for the management of the Power Quality. The **CTS DC Hall** series for the measurement of the DC current is also available.

- Product range from 100 to 500A with a 1A secondary
- Accuracy class 0,5, 1, 3%
- Snap-on, screwless mounting system
- Protection on the opening of the secondary circuit
- Comply with EN61010-1, IEC 60044-1
- Non flammable plastic case / shield

## Technical Specifications CTS 24-100

Nominal current.....	100A AC
Maximum applicable current .....	120A AC
Internal hole diameter .....	24 mm
Operating Frequency .....	10-5K Hz
Nominal load .....	0,2VA
External dimensions of the shell in mm	
..... width 45, height 76, depth 36	
Non flammable shell material .....	P.P. UL-94V-0
Insulation resistance.....	higher than 100MΩ at 500V
Insulation voltage .....	AC 2200V/1 minute
..... (between the output terminal and the shell)	
Accuracy Class .....	1

## Technical Specifications CTS 35-200

Nominal current.....	200A AC
Maximum applicable current .....	240A AC
Internal hole diameter .....	35 mm
Operating Frequency .....	10-5K Hz
Nominal load .....	0,2VA
External dimensions of the shell in mm	
..... width 63, height 94, depth 40	
Non flammable shell material .....	P.P. UL-94V-0
Insulation resistance.....	higher than 100MΩ at 500V
Insulation voltage .....	AC 2200V/1 minute
..... (between the output terminal and the shell)	
Accuracy Class .....	1

## Technical Specifications CTS 35-400

Nominal current.....	400A AC
Maximum applicable current .....	480A AC
Internal hole diameter .....	35 mm
Operating Frequency .....	10-5K Hz
Nominal load .....	0,2VA
External dimensions of the shell in mm	
..... width 63, height 94, depth 40	
Non flammable shell material .....	P.P. UL-94V-0
Insulation resistance.....	higher than 100MΩ at 500V
Insulation voltage .....	AC 2200V/1 minute
..... (between the output terminal and the shell)	
Accuracy Class .....	1

## Technical Specifications CTS 24-100 (PFC0411)

Nominal current.....	100A AC
Maximum applicable current .....	240A AC
Internal hole diameter .....	24 mm
Operating Frequency .....	10-5K Hz
Nominal load .....	0,5VA
External dimensions of the shell in mm	
..... width 45, height 75, depth 34	
Non flammable shell material .....	P.P. UL-94V-0
Insulation resistance.....	higher than 100MΩ at 500V
Insulation voltage .....	AC 3000V/1 minute
..... (between the output terminal and the shell)	
Accuracy Class .....	3

### Technical Specifications CTS 24-200

Nominal current..... 200A AC  
 Maximum applicable current ..... 240A AC  
 Internal hole diameter ..... 24 mm  
 Operating Frequency ..... 10-5K Hz  
 Nominal load ..... 0,5VA  
 External dimensions of the shell in mm  
 ..... width 45, height 75, depth 34  
 Non flammable shell material .....P.P. UL-94V-0  
 Insulation resistance..... higher than 100MΩ at 500V  
 Insulation voltage .....AC 3000V/1 minute  
 ..... (between the output terminal and the shell)  
 Accuracy Class ..... 1

### Technical Specifications CTS 24-250

Nominal current..... 250A AC  
 Maximum applicable current ..... 300A AC  
 Internal hole diameter ..... 24 mm  
 Operating Frequency ..... 10-5K Hz  
 Nominal load ..... 1,0VA  
 External dimensions of the shell in mm  
 ..... width 45, height 75, depth 34  
 Non flammable shell material .....P.P. UL-94V-0  
 Insulation resistance..... higher than 100MΩ at 500V  
 Insulation voltage .....AC 3000V/1 minute  
 ..... (between the output terminal and the shell)  
 Accuracy Class ..... 1

### Technical Specifications CTS 36-300

Nominal current..... 300A AC  
 Maximum applicable current ..... 360A AC  
 Internal hole diameter ..... 36 mm  
 Operating Frequency ..... 10-5K Hz  
  
 Nominal load ..... 1,5VA  
 External dimensions of the shell in mm  
 ..... width 57, height 92, depth 40  
 Non flammable shell material .....P.P. UL-94V-0  
 Insulation resistance..... higher than 100MΩ at 500V  
 Insulation voltage .....AC 3000V/1 minute  
 ..... (between the output terminal and the shell)  
 Accuracy Class ..... 1

### Technical Specifications CTS 36-500

Nominal current..... 500A AC  
 Maximum applicable current ..... 600A AC  
 Internal hole diameter ..... 36 mm  
 Operating Frequency ..... 10-5K Hz  
 Nominal load ..... 0,5VA  
 External dimensions of the shell in mm  
 ..... width 57, height 92, depth 40  
 Non flammable shell material .....P.P. UL-94V-0  
 Insulation resistance..... higher than 100MΩ at 500V  
 Insulation voltage .....AC 3000V/1 minute  
 ..... (between the output terminal and the shell)  
 Accuracy Class ..... 0,5

### How to order

Type	Code
CTS 24-100 SPLIT CORE CURRENT TRANSFORMER MINI SERIES.....	PFC0300
CTS 35-200 SPLIT CORE CURRENT TRANSFORMER MINI SERIES.....	PFC0310
CTS 35-400 SPLIT CORE CURRENT TRANSFORMER MINI SERIES.....	PFC0320
CTS 24-100 SPLIT CORE CURRENT TRANSFORMER MINI SERIES.....	PFC0411
CTS 24-200 SPLIT CORE CURRENT TRANSFORMER MINI SERIES.....	PFC0415
CTS 24-250 SPLIT CORE CURRENT TRANSFORMER MINI SERIES.....	PFC0420
CTS 36-300 SPLIT CORE CURRENT TRANSFORMER MINI SERIES.....	PFC0425
CTS 36-500 SPLIT CORE CURRENT TRANSFORMER MINI SERIES.....	PFC0430

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# CTS DC HALL SPLIT CORE CURRENT TRANSDUCER MINI SERIES

## Split current transformers for the measurement of DC loads



The split current transformers **CTS DC Hall Split Core Current Transducer Mini Series** for the measurement of AC loads, can be used with the Electrex instruments of the DC Hall series paired with DC Channel Split Core Current Converter. Equipped with a snap-on, screwless mounting system. The ideal solution for an easy and time saving installation of the Electrex instruments of the DC Hall series in situations where it is not possible to disconnect the power supply.

- Product range from 50 to 500A (other versions available)
- Accuracy class 1%
- Snap-on, screwless mounting system
- Reduced size and low costs of installation
- Comply with EN61010-1, IEC 60044-1
- Insulated current measurement

### Technical Specifications CTS DC 10-50

Nominal current ..... 50A  
 Internal hole diameter..... 10 mm  
 Saturation current ..... 75A  
 Nominal output voltage..... ±4V  
 Power supply voltage..... ±15V 25mA  
 Insulation voltage ..... AC 1500V/1 minute  
 .....(between the output terminal and the shell)  
 Insulation resistance ..... max 500MΩ at DC 500V  
 Linearity ..... ±1.0% In  
 External dimensions of the shell.....  
 ..... width 24 mm, height 41 mm, depth 27 mm  
 Cable length ..... 30 cm  
 Working temperature ..... -15/+65 °C

### Technical Specifications CTS DC 16-100

Nominal current ..... 100A  
 Internal hole diameter..... 16 mm  
 Saturation current ..... 150A  
 Nominal output voltage..... ±4V  
 Power supply voltage..... ±15V 25mA  
 Insulation voltage ..... AC 1500V/1 minute  
 .....(between the output terminal and the shell)  
 Insulation resistance ..... max 500MΩ at DC 500V  
 Linearity ..... ±1.0% In  
 External dimensions of the shell.....  
 ..... width 30 mm, height 45 mm, depth 32 mm  
 Cable length ..... 30 cm  
 Working temperature ..... -15/+65 °C

### Technical Specifications CTS DC 24-250

Nominal current ..... 250A  
 Internal hole diameter..... 24 mm  
 Saturation current ..... 625A  
 Nominal output voltage..... ±4V  
 Power supply voltage..... ±15V 25mA

Insulation voltage ..... AC 1500V/1 minute  
 .....(between the output terminal and the shell)  
 Insulation resistance ..... max 500MΩ at DC 500V  
 Linearity ..... ±1.0% In  
 External dimensions of the shell.....  
 ..... width 45 mm, height 65 mm, depth 34 mm  
 Cable length ..... 30 cm  
 Working temperature ..... -15/+65 °C

### Technical Specifications CTS DC 36-500

Nominal current ..... 500A  
 Internal hole diameter..... 36 mm  
 Saturation current ..... 750A  
 Nominal output voltage..... ±4V  
 Power supply voltage..... ±15V 25mA  
 Insulation voltage ..... AC 1500V/1 minute  
 .....(between the output terminal and the shell)  
 Insulation resistance ..... max 500MΩ at DC 500V  
 Linearity ..... ±1.0% In  
 External dimensions of the shell.....  
 ..... width 57 mm, height 82 mm, depth 40 mm  
 Cable length ..... 30 cm  
 Working temperature ..... -15/+65 °C

### How to order

Type	Code
CTS DC HALL 10-50 SPLIT CORE CURRENT TRANSDUCER MINI SERIES	PFC0500
CTS DC HALL 16-100 SPLIT CORE CURRENT TRANSDUCER MINI SERIES	PFC0501
CTS DC HALL 24-250 SPLIT CORE CURRENT TRANSDUCER MINI SERIES	PFC0502
CTS DC HALL 36-500 SPLIT CORE CURRENT TRANSDUCER MINI SERIES	PFC0503

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