



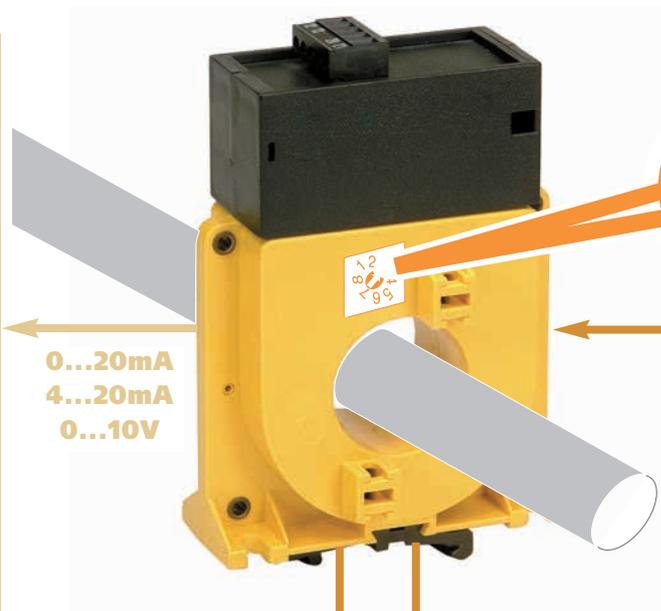
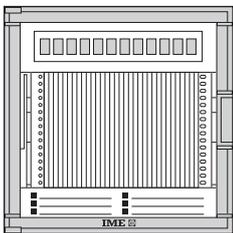
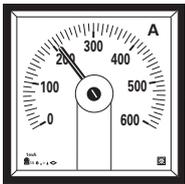
**Trasformatore di corrente con trasduttore integrato Ø 35mm**

**Current transformer with built-in transducers Ø 35mm**

**TT35A**

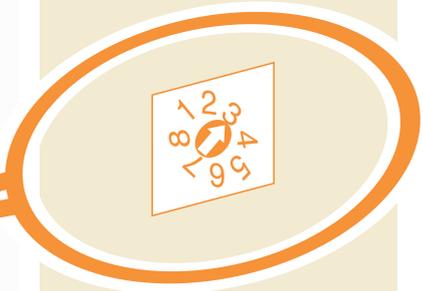
Corrente primaria selezionabile in campo  
9 portate programmabili  
Uscita 0...20mA - 4...20mA - 0...10V c.c.  
Tecnologia 4 fili, alimentazione c.a.

Primary current field-selectable  
9 programmable ranges  
Output 0...20mA - 4...20mA - 0...10V d.c.  
4-wire technology, a.c. auxiliary supply



0...20mA  
4...20mA  
0...10V

**Portate Ranges**



- Ib**
- x1
- x2
- x3
- x4
- x5
- x6
- x7
- x8
- x9

**Inserzione dirette fino a 225A**  
**Direct connection up to 225A**

| CODICI DI ORDINAZIONE<br>ORDERING CODE | INGRESSO<br>INPUT | USCITA<br>OUTPUT | AL. AUSILIARIA<br>AUX. AUXILIARY |
|--|-------------------|------------------|----------------------------------|
| TT1BA5012                              | 5 - 45A           | 0...20mA         | 115V ca/ac                       |
| TT1BA5013                              | 5 - 45A           | 0...20mA         | 230V ca/ac                       |
| TT1BA5014                              | 5 - 45A           | 0...20mA         | 240V ca/ac                       |
| TT1BA5022                              | 5 - 45A           | 4...20mA         | 115V ca/ac                       |
| TT1BA5023                              | 5 - 45A           | 4...20mA         | 230V ca/ac                       |
| TT1BA5024                              | 5 - 45A           | 4...20mA         | 240V ca/ac                       |
| TT1BA5032                              | 5 - 45A           | 0...10V          | 115V ca/ac                       |
| TT1BA5033                              | 5 - 45A           | 0...10V          | 230V ca/ac                       |
| TT1BA5034                              | 5 - 45A           | 0...10V          | 240V ca/ac                       |
| TT1BB2512                              | 25 - 225A         | 0...20mA         | 115V ca/ac                       |
| TT1BB2513                              | 25 - 225A         | 0...20mA         | 230V ca/ac                       |
| TT1BB2514                              | 25 - 225A         | 0...20mA         | 240V ca/ac                       |
| TT1BB2522                              | 25 - 225A         | 4...20mA         | 115V ca/ac                       |
| TT1BB2523                              | 25 - 225A         | 4...20mA         | 230V ca/ac                       |
| TT1BB2524                              | 25 - 225A         | 4...20mA         | 240V ca/ac                       |
| TT1BB2532                              | 25 - 225A         | 0...10V          | 115V ca/ac                       |
| TT1BB2533                              | 25 - 225A         | 0...10V          | 230V ca/ac                       |
| TT1BB2534                              | 25 - 225A         | 0...10V          | 240V ca/ac                       |



## INGRESSO

Corrente nominale In: 5...45 – 15...135 – 25...225 – 50...450A

Portate selezionabili: 9 (vedere tabella)

|     |      |      |      |      |      |      |      |      |
|-----|------|------|------|------|------|------|------|------|
| 5A  | 10A  | 15A  | 20A  | 25A  | 30A  | 35A  | 40A  | 45A  |
| 15A | 30A  | 45A  | 60A  | 75A  | 90A  | 105A | 120A | 135A |
| 25A | 50A  | 75A  | 100A | 125A | 150A | 175A | 200A | 225A |
| 50A | 100A | 150A | 200A | 250A | 300A | 350A | 400A | 450A |

Frequenza nominale fn: 50 oppure 400Hz

Eccedenza di breve durata (EN 60688): 20 In/1s

Autoconsumo: ≤ 0,1VA

Tipo misura: valor medio, taratura rapportata al valore efficace

## CAMPI NOMINALI DI UTILIZZO

(EN 60688)

Frequenza: 47...63Hz (fn 50Hz) oppure 380...420Hz (fn 400Hz)

Forma d'onda: sinusoidale, fattore di forma 1,11

## INTERVALLO DI MISURA

Corrente: 0...In

## USCITA

Tipo: unidirezionale a zero traslato, per carico d'uscita variabile

Precisione (EN 60688): cl.1

Ondulazione (EN 60688): ≤ 2%

Tempo di risposta: ≤ 500ms

Valori nominali di corrente: 0...20 – 4...20mA

Carico di uscita RI: ≤ 750Ω

Tensione disponibile: 15V

Valori nominali di tensione: 0...10V

Carico di uscita RI: ≥ 200kΩ

## INPUT

Rated current In: 5...45 – 15...135 – 25...225 – 50...450A

Selectable ranges: 9 (see table)

fn rated frequency: 50 or 400Hz

Short-duration excess (EN 60688): 20 In/1 second

Rated Burden: ≤ 0,1VA

Type of measurement: average value, calibration related to root-mean-square value

## NOMINAL RANGE OF VALUE

(EN 60688)

Frequency: 43...63Hz (fn 50Hz) or 380...420Hz (fn 400Hz)

Waveform: sinusoidal, form factor 1,11

## MEASURING RANGE

Current: 0...In

## OUTPUT

Type: unidirectional with live zero for variable output load

Accuracy (EN 60688): class 1

Ripple content (EN 60688): ≤ 2%

Response time: ≤ 500ms

Current rated value: 0...20 – 4...20mA

RI output load: ≤ 750Ω

Compliance voltage: 15V

Voltage rated value: 0...20 – 4...20mA

RI output load: ≥ 200kΩ

## ALIMENTAZIONE AUSILIARIA

Valore nominale (Uaux): 115 oppure 230V  
 Variazione ammessa: ± 10%  
 Frequenza nominale: 50Hz  
 Variazione ammessa: 47...63Hz  
 Autoconsumo: ≤ 3VA

## ISOLAMENTO

(EN 60439-1, EN61010-1)

Categoria di installazione: III  
 Grado di inquinamento: 2  
 Tensione di riferimento per l'isolamento: 600V  
 Prova di tensione a impulso 6kV 1,2/50µs 0,5J  
 Circuiti considerati: ingresso, uscita, al. ausiliaria  
 Prova a tensione alternata 4kV valore efficace 50Hz/1min  
 Circuiti considerati: ingresso, uscita, al. ausiliaria  
 Prova a tensione alternata 4kV valore efficace 50Hz/1min  
 Circuiti considerati: tutti i circuiti e massa

## PROVE COMPATIBILITA' ELETTROMAGNETICA

Prove di emissione in accordo con EN50081-1, EN55011  
 Prove di immunità in accordo con EN50082-2

## CONDIZIONI AMBIENTALI

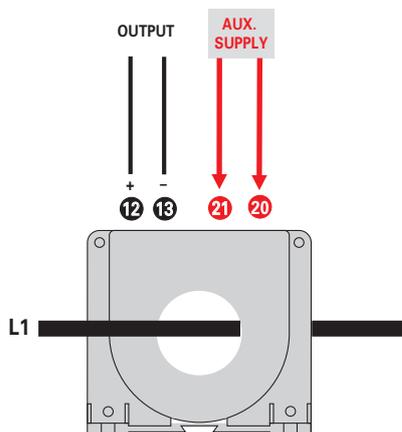
(EN 60688)

Gruppo di utilizzo: II  
 Temperatura di riferimento: 15...30°C  
 Temperatura di impiego: 0...45°C  
 Condizione limite di temperatura: -10...55°C  
 Temperatura di magazzino: -25...70°C  
 Umidità relativa: fino a 75%  
 Adatto all'utilizzo in clima tropicale  
 Massima potenza dissipata<sup>1</sup>: ≤ 2,5W  
<sup>1</sup>Per il dimensionamento termico dei quadri

## CUSTODIA

Materiale custodia: ABS autoestinguente  
 Conessioni: morsetti a vite  
 Fissaggio: a vite  
 Grado di protezione (EN 60529): IP20 (morsetti)  
 Peso: 350 grammi

## SCHEMA D'INSERZIONE WIRING DIAGRAM



## AUXILIARY SUPPLY

Rated value (Uaux): 115 or 230V  
 Tolerance: ± 10%  
 Rated frequency: 50Hz  
 Tolerance: 47...63Hz  
 Rated burden: ≤ 3VA

## INSULATION

(EN 60439-1, EN61010-1)

Installation category: III  
 Pollution degree: 2  
 Insulation reference voltage: 600V  
 Impulse voltage test 6kV 1,2/50µs 0,5J  
 Considered circuits: input, output, aux. supply  
 A.C. voltage test 4kV r.m.s. 50Hz/1min  
 Considered circuits: input, output, aux. supply  
 A.C. voltage test 4kV r.m.s. 50Hz/1min  
 Considered circuits: all circuits and earth

## ELECTROMAGNETIC COMPATIBILITY TESTS

Emission test according to EN50081-1, EN55011  
 Immunity test according to EN50082-2

## ENVIRONMENTAL CONDITIONS

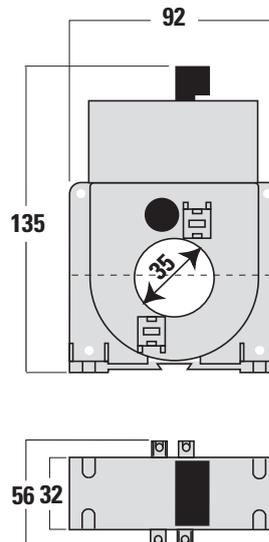
(EN 60688)

Usage group: II  
 Reference temperature: 15...30°C  
 Nominal temperature range: 0...45°C  
 Limit temperature range: -10...55°C  
 Limit temperature range for storage: -25...70°C  
 Relative humidity: up to 75%  
 Suitable for tropical climates  
 Max. power dissipation<sup>1</sup>: ≤ 2,5W  
<sup>1</sup>For switchboard thermal calculation

## HOUSING

Housing material: self-extinguishing ABS  
 Connections: screw terminals  
 Mounting: screw type  
 Protection degree (EN 60529): IP20 (terminals)  
 Weight: 350 grams

## DIMENSIONI DIMENSIONS





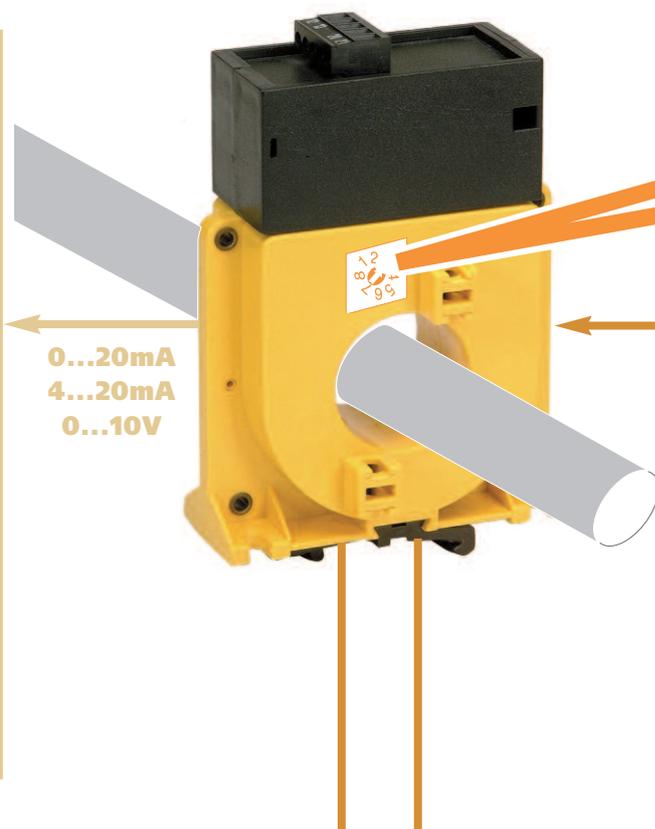
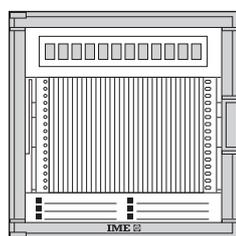
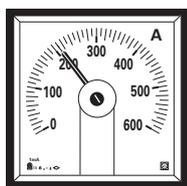
**Transformateur de courant avec transducteur intégré**  
**Ø 35mm**

Courant primaire sélectionnable  
9 calibres programmables  
Sortie 0...20mA - 4...20mA - 0...10V c.c.  
Technologie 4 fils, alimentation auxiliaire c.a.

**Current transformer with built-in transducers**  
**Ø 35mm**

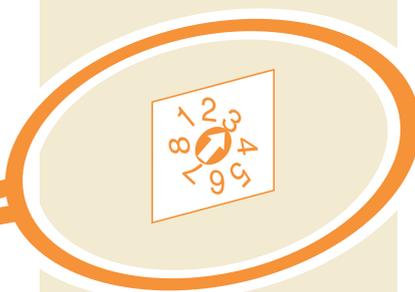
Primary current field-selectable  
9 programmable ranges  
Output 0...20mA - 4...20mA - 0...10V d.c.  
4-wire technology, a.c. auxiliary supply

# TT35A



0...20mA  
4...20mA  
0...10V

**Calibres Ranges**



- Ib**  
x1  
x2  
x3  
x4  
x5  
x6  
x7  
x8  
x9

**Raccordement direct jusqu'à 225A**  
**Direct connection up to 225A**

| REFERENCE<br>ORDERING CODE | ENTREE<br>INPUT | SORTIE<br>OUTPUT | ALIM. AUX.<br>AUX. AUSILIARY |
|----------------------------|-----------------|------------------|------------------------------|
| 5025 2206                  | 5 - 45A         | 0...20mA         | 115V ca/ac                   |
| 5025 2506                  | 5 - 45A         | 0...20mA         | 230V ca/ac                   |
| 5025 2406                  | 5 - 45A         | 0...20mA         | 240V ca/ac                   |
| 5025 3206                  | 5 - 45A         | 4...20mA         | 115V ca/ac                   |
| 5025 3506                  | 5 - 45A         | 4...20mA         | 230V ca/ac                   |
| 5025 3406                  | 5 - 45A         | 4...20mA         | 240V ca/ac                   |
| 5025 6206                  | 5 - 45A         | 0...10V          | 115V ca/ac                   |
| 5025 6506                  | 5 - 45A         | 0...10V          | 230V ca/ac                   |
| 5025 6406                  | 5 - 45A         | 0...10V          | 240V ca/ac                   |
| 5025 2204                  | 25 - 225A       | 0...20mA         | 115V ca/ac                   |
| 5025 3505                  | 25 - 225A       | 0...20mA         | 230V ca/ac                   |
| 5025 2404                  | 25 - 225A       | 0...20mA         | 240V ca/ac                   |
| 5025 3204                  | 25 - 225A       | 4...20mA         | 115V ca/ac                   |
| 5025 3504                  | 25 - 225A       | 4...20mA         | 230V ca/ac                   |
| 5025 3404                  | 25 - 225A       | 4...20mA         | 240V ca/ac                   |
| 5025 6204                  | 25 - 225A       | 0...10V          | 115V ca/ac                   |
| 5025 6504                  | 25 - 225A       | 0...10V          | 230V ca/ac                   |
| 5025 6404                  | 25 - 225A       | 0...10V          | 240V ca/ac                   |

#### Autres exécutions Other executions

| Entrée Input |
|--------------|
| 15 - 135A    |
| 50 - 450A    |

#### ENTREE

Courant nominal In: 5...45 - 15...135 - 25...225 - 50...450A

Calibres sélectionnables: 9 (voir tableau)

|     |      |      |      |      |      |      |      |      |
|-----|------|------|------|------|------|------|------|------|
| 5A  | 10A  | 15A  | 20A  | 25A  | 30A  | 35A  | 40A  | 45A  |
| 15A | 30A  | 45A  | 60A  | 75A  | 90A  | 105A | 120A | 135A |
| 25A | 50A  | 75A  | 100A | 125A | 150A | 175A | 200A | 225A |
| 50A | 100A | 150A | 200A | 250A | 300A | 350A | 400A | 450A |

Fréquence nominale fn: 50 ou 400Hz

Surcharge de brève durée (EN 60688): 20 In/1s

Autoconsommation:  $\leq 0,1VA$

Type de mesure: valeur moyenne, tarage par rapport à la valeur efficace

#### ETENDUE DE MESURE

(EN 60688)

Fréquence: 47...63Hz (fn 50Hz) ou 380...420Hz (fn 400Hz)

Forme d'onde: sinusoïdale, facteur de forme 1,11

#### INTERVALLE DE MESURE

Courant: 0...In

#### SORTIE

Type: unidirectionnel à zéro décalé, pour charge de sortie variable

Précision (EN 60688): cl.1

Ondulation (EN 60688):  $\leq 2\%$

Temps de réponse:  $\leq 500ms$

Valeur nominale: 0...20 - 4...20mA

Charge de sortie:  $\leq 750\Omega$

Tension disponible: 15V

Valeur nominale de tension: 0...10V

Charge de sortie RI:  $\geq 200k\Omega$

#### INPUT

Rated current In: 5...45 - 15...135 - 25...225 - 50...450A

Selectable ranges: 9 (see table)

fn rated frequency: 50 or 400Hz

Short-duration excess (EN 60688): 20 In/1 second

Rated Burden:  $\leq 0,1VA$

Type of measurement: average value, calibration related to root-mean-square value

#### NOMINAL RANGE OF VALUE

(EN 60688)

Frequency: 43...63Hz (fn 50Hz) or 380...420Hz (fn 400Hz)

Waveform: sinusoidal, form factor 1,11

#### MEASURING RANGE

Current: 0...In

#### OUTPUT

Type: unidirectional with live zero for variable output load

Accuracy (EN 60688): class 1

Ripple content (EN 60688):  $\leq 2\%$

Response time:  $\leq 500ms$

Current rated value: 0...20 - 4...20mA

RI output load:  $\leq 750\Omega$

Compliance voltage: 15V

Voltage rated value: 0...20 - 4...20mA

RI output load:  $\geq 200k\Omega$

## ALIMENTATION AUXILIAIRE

Valeur nominale (Uaux): 115 ou 230V

Variation admissible: ± 10%

Fréquence nominale: 50Hz

Variation admissible: 47...63Hz

Autoconsommation: ≤ 3VA

## ISOLEMENT

(EN 60439-1, EN61010-1)

Catégorie de l'installation: III

Degré de pollution: 2

Tension de référence pour l'isolement: 600V

Tension d'essai 6kV impulsion normalisée 1,2/50µs 0,5J

Circuits considérés: entrée, sortie, alimentation auxiliaire

Tension d'essai 4kV valeur efficace 50Hz/1 min

Circuits considérés: entrée, sortie, alimentation auxiliaire

Tension d'essai 4kV valeur efficace 50Hz/1 min

Circuits considérés: tous les circuits et la masse

## COMPATIBILITE ELECTROMAGNETIQUE

Essai d'émission selon norme EN50081-1, EN55011

Essai d'immunité selon norme EN50082-2

## CONDITIONS D'UTILISATION

(EN 60688)

Groupe d'utilisation: II

Température de référence: 15...30°C

Température d'utilisation: 0...45°C

Température limite de fonctionnement: -10...55°C

Température de stockage: -25...70°C

Humidité relative: jusqu'à 75%

Adapté pour l'utilisation en climat tropical

Puissance max. dissipée<sup>1</sup>: ≤ 2,5W

<sup>1</sup>Pour le dimensionnement thermique du coffret

## BOITIER

Matériaux du boîtier: ABS autoextinguible

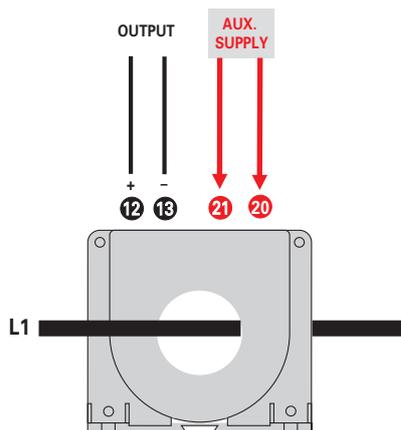
Raccordements: à vis

Fixation: à vis

Indice de protection (EN 60529): IP20 (bornes)

Poids: 350 grammes

## SCHEMA DE RACCORDEMENT WIRING DIAGRAM



## AUXILIARY SUPPLY

Rated value (Uaux): 115 or 230V

Tolerance: ± 10%

Rated frequency: 50Hz

Tolerance: 47...63Hz

Rated burden: ≤ 3VA

## INSULATION

(EN 60439-1, EN61010-1)

Installation category: III

Pollution degree: 2

Insulation reference voltage: 600V

Impulse voltage test 6kV 1,2/50µs 0,5J

Considered circuits: input, output, aux. supply

A.C. voltage test 4kV r.m.s. 50Hz/1min

Considered circuits: input, output, aux. supply

A.C. voltage test 4kV r.m.s. 50Hz/1min

Considered circuits: all circuits and earth

## ELECTROMAGNETIC COMPATIBILITY TESTS

Emission test according to EN50081-1, EN55011

Immunity test according to EN50082-2

## ENVIRONMENTAL CONDITIONS

(EN 60688)

Usage group: II

Reference temperature: 15...30°C

Nominal temperature range: 0...45°C

Limit temperature range: -10...55°C

Limit temperature range for storage: -25...70°C

Relative humidity: up to 75%

Suitable for tropical climates

Max. power dissipation<sup>1</sup>: ≤ 2,5W

<sup>1</sup>For switchboard thermal calculation

## HOUSING

Housing material: self-extinguishing ABS

Connections: screw terminals

Mounting: screw type

Protection degree (EN 60529): IP20 (terminals)

Weight: 350 grams

## DIMENSIONS DIMENSIONS

