

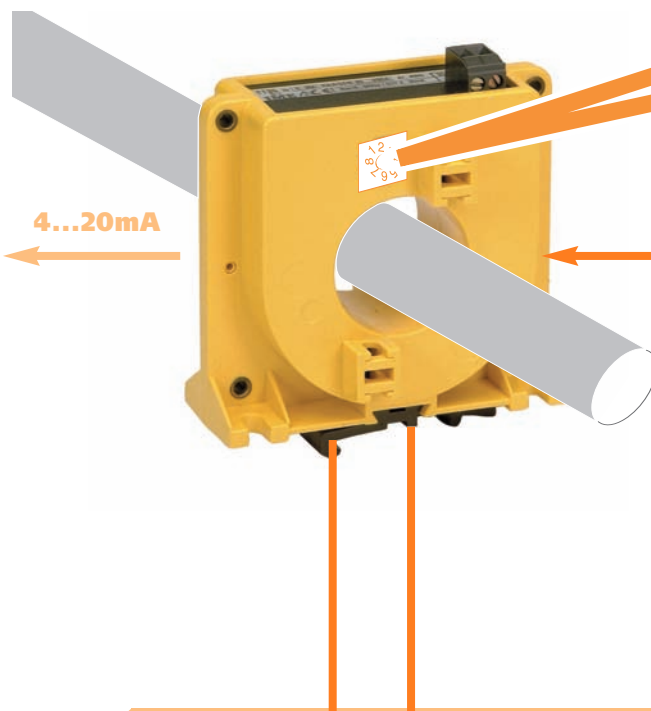
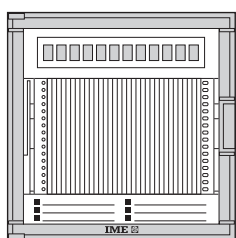
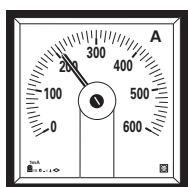
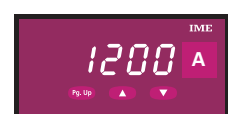
**Trasformatore
di corrente con
trasduttore integrato
Ø 35mm**

Corrente primaria selezionabile in campo
9 portate programmabili
Uscita 4...20mA c.c.
Tecnologia 2 fili, alimentazione c.c.

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

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

TT35



Portate Ranges



Ib

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

Inserzione diretta fino a 450A
Direct connection up to 450A

CODICI DI ORDINAZIONE ORDERING CODE	INGRESSO INPUT	USCITA OUTPUT	AL. AUSILIARIA AUX. AUSILIARY
TT1AA502A	5 - 45A	4...20mA	10...34V cc/dc
TT1AB152A	15 - 135A	4...20mA	10...34V cc/dc
TT1AB252A	25 - 225A	4...20mA	10...34V cc/dc
TT1AB502A	50 - 450A	4...20mA	10...34V cc/dc

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
Valore nominale: 4...20mA

Carico di uscita RI: $\leq \frac{U_{aux} - 9}{0,02}$

ALIMENTAZIONE AUSILIARIA

Tensione minima di alimentazione Uauxl: (RI ohm x 0,02) + 9
Tensione massima di alimentazione Uauxh: (RI ohm x 0,004) + 30
Valori tipici: vedere tabella
Protezione contro l'inversione di polarità

Carico di uscita / Outout load RI	50	100	250	500	750	1k
Tensione minima / Lowest voltage Uauxl	10V	11V	14V	19V	24V	29V
Tensione massima / Highest voltage Uauxh	30V	30V	31V	32V	33V	34V

ISOLAMENTO (EN60439-1, 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

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
Rated value: 4...20mA

RI output load: $\leq \frac{U_{aux} - 9}{0,02}$

AUXILIARY SUPPLY

Uauxl lowest supply voltage: (RI ohm x 0,02) + 9
Uauxh highest supply voltage: (RI ohm x 0,004) + 30
Typical values: see table
Protected against incorrect polarity

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 magazzinaggio: -25...70°C
Umidità relativa: fino a 75%
Adatto all'utilizzo in clima tropicale
Massima potenza dissipata ¹ : ≤ 0,6W
¹ 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: 200 grammi

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

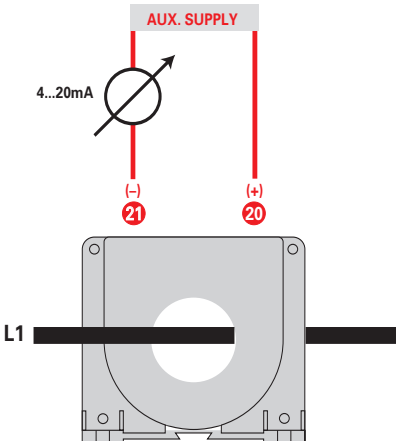
ENVIRONMENTAL CONDITIONS (EN 60688)

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 ¹ : ≤ 0,6W
¹ For switchboard thermal calculation

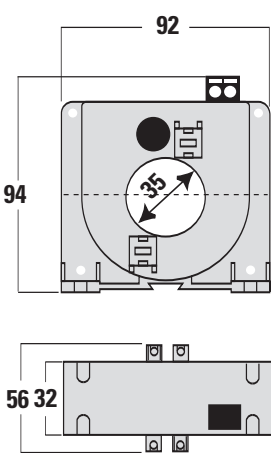
HOUSING

Housing material: self-extinguishing ABS
Connections: screw terminals
Mounting: screw type
Protection degree (EN 60529): IP20 (terminals)
Weight: 200 grams

SCHEMA D'INSERZIONE WIRING DIAGRAM



DIMENSIONI DIMENSIONS



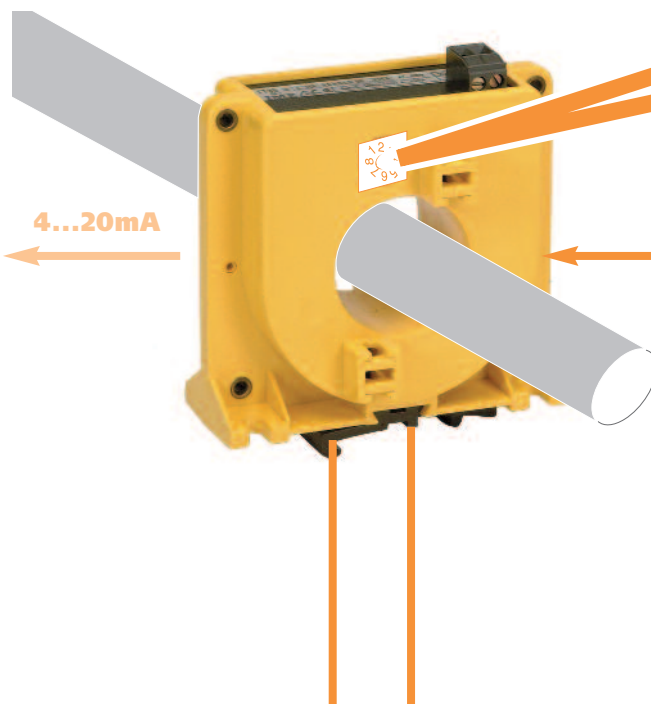
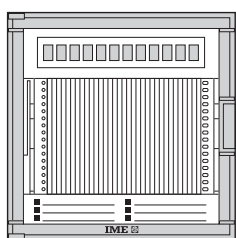
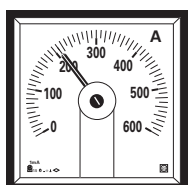
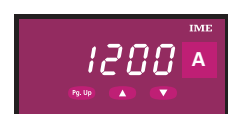
**Transformateur de
courant avec transducteur
intégré
Ø 35mm**

Courant primaire sélectionnable
9 calibres programmables
Sortie 4...20mA c.c.
Technologie 2 fils, alimentation auxiliaire c.c.

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

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

TT35



Calibres Ranges



Ib

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

**Raccordement direct jusqu'à 450A
Direct connection up to 450A**

REFERENCE ORDERING CODE	ENTREE INPUT	SORTIE OUTPUT	ALIM. AUX. AUX. AUSILIARY
5025 3501	5 - 45A	4...20mA	10...34V cc/dc
5025 3509	15 - 135A	4...20mA	10...34V cc/dc
5025 3502	25 - 225A	4...20mA	10...34V cc/dc
5025 3503	50 - 450A	4...20mA	10...34V cc/dc

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: ≤ 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): ≤ 2%

Temps de réponse: ≤ 500ms

Valeur nominale: 4...20mA

Charge de sortie RI: ≤ $\frac{U_{aux} - 9}{0,02}$

ALIMENTATION AUXILIAIRE

Tension minimum d'alimentation Uauxl: (RI ohm x 0,02) + 9

Tension maximum d'alimentation Uauxh: (RI ohm x 0,004) + 30

Valeurs types: voir tableau

Protection contre l'inversion de polarité

Charge de sortie / Outout load RI	50	100	250	500	750	1k
Tension minimum / Lowest voltage Uauxl	10V	11V	14V	19V	24V	29V
Tension maximum / Highest voltage Uauxh	30V	30V	31V	32V	33V	34V

ISOLEMENT (EN60439-1, EN61010-1)

Catégorie d'installation: III

Degré de polution: 2

Tension de référence pour l'isolement: 600V

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

Circuits considérés: entrée, sortie/alim.aux.

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

Rated value: 4...20mA

RI output load: ≤ $\frac{U_{aux} - 9}{0,02}$

AUXILIARY SUPPLY

Uauxl lowest supply voltage: (RI ohm x 0,02) + 9

Uauxh highest supply voltage: (RI ohm x 0,004) + 30

Typical values: see table

Protected against incorrect polarity

INSULATION (EN60439-1, 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

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 ¹ : ≤ 0,6W		
¹ 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: 200 grammes

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 ¹ : ≤ 0,6W	
¹ For switchboard thermal calculation	

HOUSING
Housing material: self-extinguishing ABS
Connections: screw terminals
Mounting: screw type
Protection degree (EN 60529): IP20 (terminals)
Weight: 200 grams

