



**Trasformatore di
corrente per reti
bassa tensione
Misura**

Trasformatore monofase di corrente
Primario a sbarra passante
Corrente primaria 1500...5000A
Corrente secondaria 1 - 5A
Classe di precisione: cl.0,5
Prestazione nominale 20...60VA

**Current transformers
for low-voltage
network
Measure**

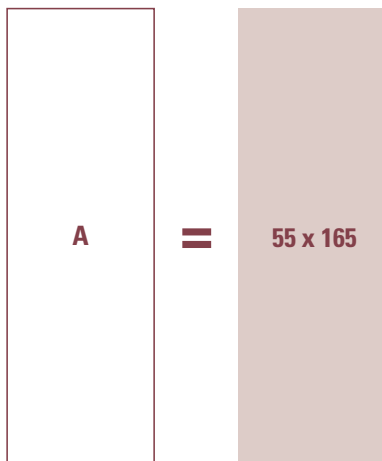
Single-phase current transformer
Passing bus bar primary
Primary current 1500...5000A
Secondary current 1 - 5A
Accuracy class: cl.0,5
Rated burden 20...60VA



TAU9



FINESTRA WINDOW



Coprimorsetto sigillabile

Sealable terminal cover
(Opzione Option)



| CODICE ORDINAZIONE / ORDER CODE | | Corrente primaria Primary current | CL. 0,5 |
|---------------------------------|--|--------------------------------------|---------|
| Secondario / Secondary | | A | VA |
| 5A | 1A | | |
| TAUB50D150 | TAUB10D150 | 1500 | 20 |
| TAUB50D200 | TAUB10D200 | 2000 | 30 |
| TAUB50D250 | TAUB10D250 | 2500 | 40 |
| TAUB50D300 | TAUB10D300 | 3000 | 40 |
| TAUB50D400 | TAUB10D400 | 4000 | 50 |
| TAUB50D500 | TAUB10D500 | 5000 | 60 |
| ATACOP05 | Accessorio coprimorsetto sigillabile / Accessory sealable terminal cover | | |

NORME DI RIFERIMENTO

EN/IEC 61869-1, 61869-2

CARATTERISTICHE TECNICHE

Corrente nominale primaria I_{pr} : 1500...5000A

Frequenza nominale: 50Hz

Frequenza di funzionamento: 47...63Hz

Opzione: frequenza nominale 400Hz (prestazioni da definire)

Corrente termica nominale permanente I_{cth} : 100% I_{pr}

Corrente termica nominale di cortocircuito I_{th} : < 60 I_{pr} (max. 90kA)

Corrente nominale dinamica I_{dyn} : 2,5 I_{th}

Fattore di sicurezza (FS): < 10

Corrente nominale secondaria I_{sr} : 5-1A

Prestazione nominale: 20...60VA

Classe di precisione: 0,5

Massima potenza dissipata 1 : ≤ 43W

¹Per il dimensionamento termico dei quadri

Funzionamento garantito a secondario aperto per 1 minuto

I trasformatori di corrente non dovrebbero funzionare con l'avvolgimento secondario aperto a causa delle sovratensioni potenzialmente pericolose e dei surriscaldamenti che possono verificarsi.

Per ovviare a questo problema è possibile utilizzare l'accessorio ATAP015 (NT710) da collegare direttamente al secondario del trasformatore, in grado di rilevare costantemente la tensione ai morsetti e qualora questa raggiunga il valore di soglia (18V) a causa di una interruzione dei collegamenti o alla rimozione delle apparecchiature, provvede automaticamente alla richiusura del circuito.

Al ripristino delle condizioni normali di funzionamento si esclude automaticamente.

Collegato permanentemente al secondario del trasformatore da proteggere, non influisce minimamente sulle caratteristiche e prestazioni del TA; non necessita di alcuna alimentazione esterna (autoalimentato).

PRESCRIZIONI RELATIVE ALL'ISOLAMENTO

Trasformatore a secco, isolamento in aria

Tensione massima di riferimento per l'isolamento U_m : 0,72kV valore efficace

Livello di isolamento nominale: 3kV valore efficace 50Hz/1min

Classe di isolamento (EN/IEC 61869-1, 61869-2): B

LIMITI DELL'ERRORE DI CORRENTE E DELL'ERRORE D'ANGOLO

(EN/IEC 61869-1, 61869-2)

| Classe di precisione Accuracy class | Errore di corrente (rapporto) in percento (±) alla percentuale della corrente nominale sottoindicata | | | | | Errore d'angolo(±) alla percentuale della corrente nominale sottoindicata ± Phase displacement at percentage of rated current shown below | | | | | | | | | |
|--|--|------|----|-----|-----|--|----|----|-----|-----|-------------------------------|------|----|-----|-----|
| | ± Percentage current (ratio) error at percentage of rated current shown below | | | | | Minuti Minutes | | | | | Centiradianti Centiradians | | | | |
| | 5 | 20 | 50 | 100 | 120 | 5 | 20 | 50 | 100 | 120 | 5 | 20 | 50 | 100 | 120 |
| 0,5 | 1,5 | 0,75 | | 0,5 | 0,5 | 90 | 45 | | 30 | 30 | 2,7 | 1,35 | | 0,9 | 0,9 |

L'errore di corrente e l'errore d'angolo a frequenza nominale non devono superare i valori indicati in tabella, quando la prestazione è uguale a un qualsiasi valore compreso tra il 25% e il 100% della prestazione nominale.

REFERENCE STANDARDS

EN/IEC 61869-1, 61869-2

SPECIFICATIONS

Rated primary current I_{pr} : 1500...5000A

Rated frequency: 50Hz

Working frequency: 47...63Hz

Option: rated frequency 400Hz (burdens to be advised)

Rated continuous thermal current I_{cth} : 100% I_{pr}

Rated short-time thermal current I_{th} : < 60 I_{pr} (max. 90kA)

Rated dynamic current I_{dyn} : 2,5 I_{th}

Instrument security factor (FS): < 10

Rated secondary current I_{sr} : 5 - 1A

Rated burden: 20...60VA

Accuracy class: 0,5

Max. power dissipation 1 : ≤ 43W

¹For switchboard thermal calculation

Working time guaranteed with secondary winding open for 1 minute

Current transformers should not be operated with the secondary winding open-circuited because of the potentially dangerous over-voltages and overheating which can occur.

To obviate this problem, it is possible to use ATAP015 (NT710) accessory to be directly connected with the transformer secondary winding, which is able to continuously detect the terminal voltage and, if the voltage reaches the threshold value (18V) owing to a connection breakdown or disconnection of the devices, automatically closes again the circuit.

When the normal working conditions are restored, it automatically disconnects. Continuously connected with the secondary winding of the transformer to protect, it doesn't affect at all the current transformer features or performances. It doesn't need any external supply (self-supplied).

INSULATION REQUIREMENTS

Dry transformer, air insulation

Highest voltage for equipment U_m : 0,72kV r.m.s.

Rated insulation level: 3kV r.m.s. 50Hz/1min

Class of insulation (EN/IEC 61869-1, 61869-2): B

LIMITS OF CURRENTS ERROR AND PHASE DISPLACEMENT

(EN/IEC 61869-1, 61869-2)

The current error and phase displacement at rated frequency shall not exceed the values given in table when the secondary burden is any value from 25% to 100% of the rated burden.

CONDIZIONI AMBIENTALI

Installazione in situazione non esposta (EN/IEC 61869-1, 61869-2)

Temperatura di riferimento: 23°C ± 1°C

Temperatura di impiego: -25...40°C

Temperatura media giornaliera: ≤ 30°C

Temperatura di magazzinaggio: -40...85°C

Umidità relativa: ≤ 85%

Adatto all'utilizzo in clima tropicale

CUSTODIA

Materiale custodia: policarbonato autoestinguente

Grado di protezione (EN60529): IP20 custodia, IP00 morsetti (IP20 con coprimorsetto sigillabile)

Opzione: coprimorsetto sigillabile

Peso: 5000 grammi (Max.)

CONNESSIONI

Primario: a sbarra passante

Secondario: morsetti M5 con serraggio a dado

Opzione: morsetti laterali

Siglatura connessioni: primario P1(K) – P2(L)
secondario s1(k) – s2(l)

ENVIRONMENTAL CONDITIONS

Non-exposed installation (EN/IEC 61869-1, 61869-2)

Reference temperature: 23°C ± 1°C

Nominal temperature range: -25...40°C

Daily mean temperature: ≤ 30°C

Limit temperature range for storage: -40...85°C

Relative humidity: ≤ 85%

Suitable for tropical climates

HOUSING

Housing material: self extinguishing polycarbonate

Protection degree (EN60529): IP20 housing, IP00 terminals (IP20 with sealable terminal cover)

Option: sealable terminal cover

Weight: 5000 grams (Max.)

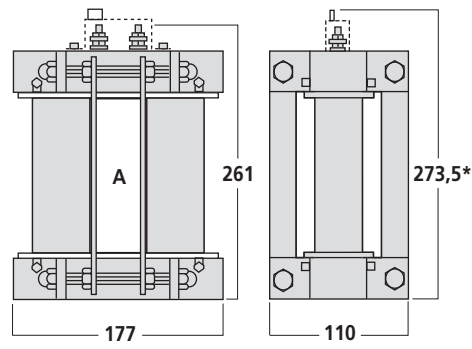
CONNECTIONS

Primary winding: passing bus bar

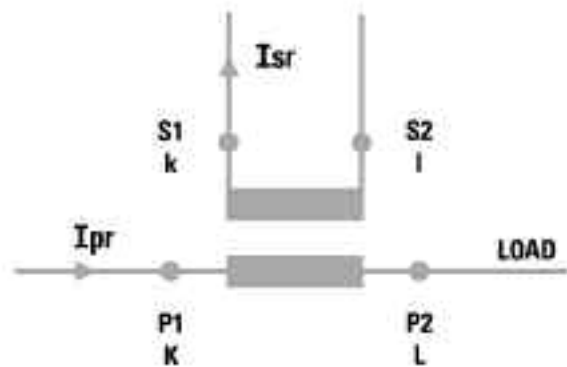
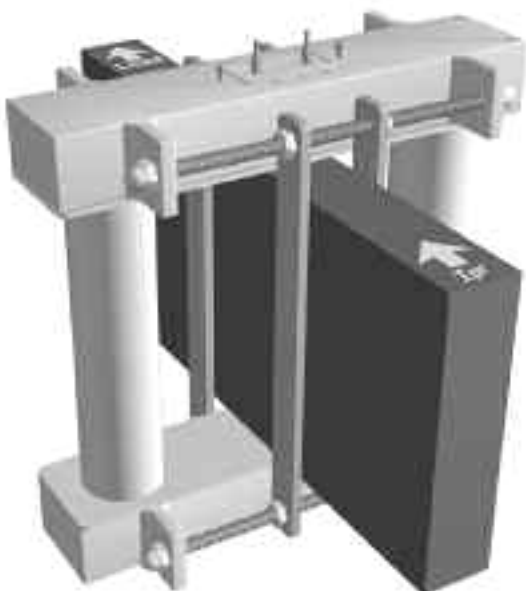
Secondary winding: tightening by nut M5

Option: side terminals

Connections label: primary winding P1(K) – P2(L)
secondary winding s1(k) – s2(l)



SCHEMA D'INSERIZIONE WIRING DIAGRAM





**Transformateur de
mesure pour réseau
basse tension**
Mesure

**Measuring transformers
for low-voltage
network**
Measure

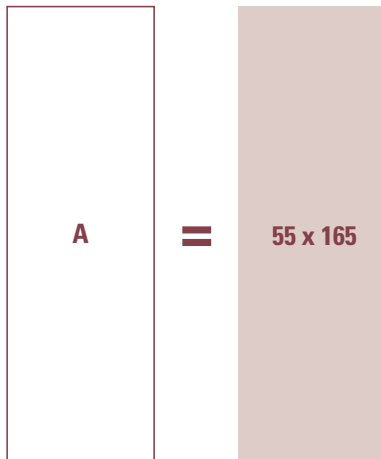
TAU9

Transformateur de courant monophasé
Primaire à barre passante
Courant primaire 1500...5000A
Courant secondaire 1 - 5A
Classe de précision : cl. 0,5
Prestation nominale 20...60VA

Single-phase current transformer
Passing bus bar primary
Primary current 1500...5000A
Secondary current 1 - 5A
Accuracy class : cl. 0,5
Rated burden 20...60VA



OUVERTURE WINDOW



Cache bornes plombable
Sealable terminal cover
(Option)



| REFERENCE / ORDER CODE | | Courant primaire Primary current | CL. 0,5 |
|------------------------|-----------|---|---------|
| Secondaire / Secondary | | | |
| 5A | 1A | A | VA |
| 3020 9215 | 3020 9203 | 1500 | 20 |
| 3020 9220 | 3020 9204 | 2000 | 30 |
| 3020 9225 | 3020 9205 | 2500 | 40 |
| 3020 9230 | 3020 9206 | 3000 | 40 |
| 3020 9240 | 3020 9207 | 4000 | 50 |
| 3020 9250 | 3020 9208 | 5000 | 60 |
| 3020 0008 | | Accessoire cache bornes plombable / Accessory sealable terminal cover | |

NORME DE REFERENCE

EN/IEC 61869-1, 61869-2

CARACTERISTIQUES TECHNIQUES

Courant nominal primaire I_{pr} : 1500...5000A

Fréquence nominale: 50Hz

Fréquence de fonctionnement: 47...63Hz

Option: fréquence nominale 400Hz (prestation à préciser)

Courant thermique nominal continu I_{cth} : < 100% I_{pr}

Courant thermique nominal de court-circuit I_{th} : < 60 I_{pr} (Max. 90KA)

Courant nominal dynamique I_{dyn} : 2,5 I_{th}

Facteur de sécurité (FS): ≤ 10

Courant nominal secondaire I_{gr} : 5-1A

Prestation nominale: 20...60VA

Classe de précision: 0,5

Puissance max. dissipée²: ≤ 43W

²Pour le dimensionnement thermique du coffret

La température max. admissible sur câble à barre primaire est : 125°C

Fonctionnement avec secondaire ouvert 1 minute

Les transformateurs de courant ne doivent pas fonctionner avec l'enroulement secondaire en circuit ouvert en raison du danger potentiel de surtension et la surchauffe qui peut se produire.

Pour remédier à ce problème, il est possible d'utiliser l'accessoire ATAP015 (NT710) pour être directement raccordé à l'enroulement secondaire du transformateur. Cet accessoire est en mesure de détecter en continu la tension aux bornes et, si la tension atteint la valeur seuil (18V) à cause d'une rupture de raccordement ou de déconnexion des dispositifs, l'accessoire referme automatiquement le circuit. Lorsque les conditions de travail normales sont rétablies, il se déconnecte automatiquement. Connecté en permanence avec l'enroulement secondaire du transformateur à protéger, il ne porte pas atteinte aux fonctionnalités ni aux performances du transformateur de courant. Il ne nécessite aucune alimentation externe (auto-alimenté).

CARACTERISTIQUES D'ISOLEMENT

Transformateur sec, isolé dans l'air

Tension maximum pour l'isolement U_m : 0,72kV valeur efficace

Niveau de tension nominale pour l'isolement: 3kV valeur efficace 50Hz/1min

Classe de l'isolement (EN/IEC 61869-1, 61869-2): B

LIMITE DES ERREURS DE COURANT ET DEPLACEMENT DE PHASE

(EN/IEC 61869-1, 61869-2)

| Classe de précision Accuracy class | % d'erreur de courant (rapport) (±) en pourcentage du courant nominal indiqué ci-après ± Percentage current (ratio) error at percentage of rated current shown below | | | | | Déplacement de phase (±) en pourcentage du courant nominal indiqué ci-après ± Phase displacement at percentage of rated current shown below | | | | | | | | | |
|---------------------------------------|---|------|----|-----|-----|--|----|----|-----|-----|-----------------------------|------|----|-----|-----|
| | | | | | | Minutes / Minutes | | | | | Centiradians / Centiradians | | | | |
| | 5 | 20 | 50 | 100 | 120 | 5 | 20 | 50 | 100 | 120 | 5 | 20 | 50 | 100 | 120 |
| 0,5 | 1,5 | 0,75 | | 0,5 | 0,5 | 90 | 45 | | 30 | 30 | 2,7 | 1,35 | | 0,9 | 0,9 |

L'erreur du courant et le déplacement de phase à la fréquence nominale ne doit pas excéder la valeur indiquée dans le tableau lorsque l'enroulement du secondaire représente une valeur de **25% à 100% de la prestation nominale.**

REFERENCE STANDARDS

EN/IEC 61869-1, 61869-2

SPECIFICATIONS

Rated primary current I_{pr} : 1500...5000A

Rated frequency: 50Hz

Working frequency: 47...63Hz

Option: rated frequency 400Hz (burdens to the advised)

Rated continuous thermal current I_{cth} : < 100% I_{pr}

Rated short-time thermal current I_{th} : < 60 I_{pr} (Max. 90KA)

Rated dynamic current I_{dyn} : 2,5 I_{th}

Instrument security factor (FS): ≤ 10

Rated secondary current I_{gr} : 5-1A

Rated burden: 20...60VA

Accuracy class: 0,5

Max. power dissipation²: ≤ 43W

²For switchboard thermal calculation

The allowed max. cable for busbar temp is : 125°C

Working time guaranteed with secondary winding open for 1 minute

Current transformers should not be operated with the secondary winding open-circuited because of the potentially dangerous over-voltages and overheating which can occur.

To obviate this problem, it is possible to use ATAP015 (NT710) accessory to be directly connected with the transformer secondary winding, which is able to continuously detect the terminal voltage and, if the voltage reaches the threshold value (18V) owing to a connection breakdown or disconnection of the devices, automatically closes again the circuit.

When the normal working conditions are restored, it automatically disconnects. Continuously connected with the secondary winding of the transformer to protect, it doesn't affect at all the current transformer features or performances. It doesn't need any external supply (self-supplied).

INSULATION REQUIREMENTS

Dry transformer, air insulation

Highest voltage for equipment U_m : 0,72kV r.m.s.

Rated insulation level: 3kV r.m.s. 50Hz/1min

Class of insulation (EN/IEC 61869-1, 61869-2): B

LIMITS OF CURRENTS ERROR AND PHASE DISPLACEMENT

(EN/IEC 61869-1, 61869-2)

The current error and phase displacement at rated frequency shall not exceed the values given in table when the secondary burden is any value **from 25% to 100% of the rated burden.**

CONDITIONS D'UTILISATION

Installation non exposée (EN/IEC 61869-1, 61869-2)

Température de référence: 23°C ± 1°C

Temperatura d'utilisation: -25...50°C

Température moyenne journalière: ≤ 30°C

Température de stockage: -40...85°C

Humidité relative: ≤ 85%

Adapté pour l'utilisation en climat tropical

BOITIER

Matériau du boîtier: polycarbonate autoextinguible

Indice de protection (EN60529): IP20 boîtier, IP00 bornes (IP20 avec cache borne plombable)

Option: cache bornes plombable

Poids: 5000 grammes (Max.)

RACCORDEMENT

Primaire: barre passante

Secondaire : par cosse, serrage par écrou M5

Option: bornier latéral

Repérage: primaire P1(K) – P2(L)
secondaire s1(k) – s2(l)

ENVIRONMENTAL CONDITIONS

Non-exposed installation (EN/IEC 61869-1, 61869-2)

Reference temperature: 23°C ± 1°C

Nominal temperature range: -25...40°C

Daily mean temperature: ≤ 30°C

Limit temperature range for storage: -40...85°C

Relative humidity: ≤ 85%

Suitable for tropical climates

HOUSING

Housing material: self extinguishing polycarbonate

Protection degree (EN60529): IP20 housing, IP00 terminals (IP20 with sealable terminal cover)

Option: sealable terminal cover

Weight: 5000 grams (Max.)

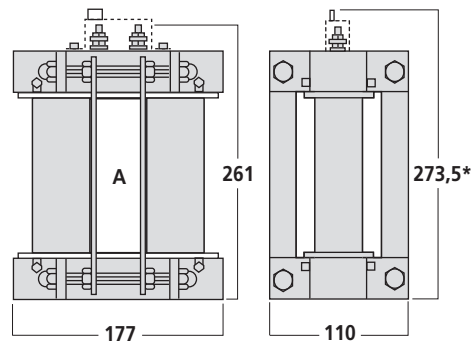
CONNECTIONS

Primary winding: passing bus bar

Secondary winding: tightening by nut M5

Option: side terminals

Connections label: primary winding P1(K) – P2(L)
secondary winding s1(k) – s2(l)



SCHEMAS DE RACCORDEMENT WIRING DIAGRAM

