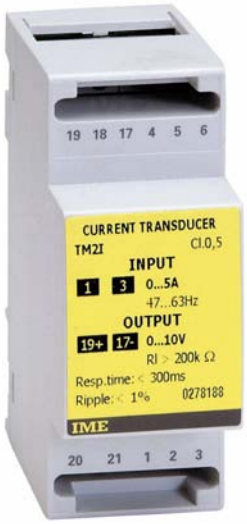
Trasduttore di corrente alternata 2 Moduli

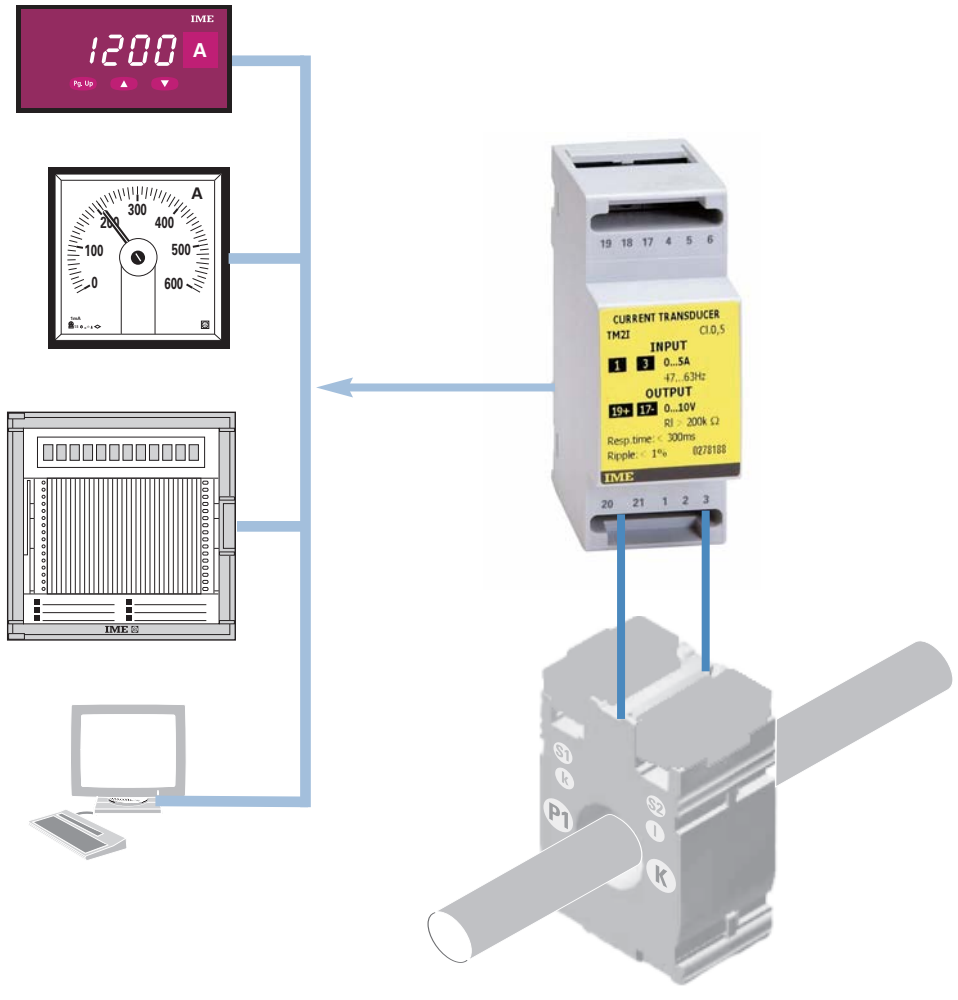
Alternating current transducer 2 Module

Tema I

Misura del valor medio, taratura rapportata al valore efficace
Ingresso su TA/1A - TA/5A

To measure average value, calibration according RMS value
Input on CT/1A - CT/5A





Inserzione su TA/1A o TA/5A
Connection up to CT/1A or CT/5A

CODICI DI ORDINAZIONE *ORDERING CODE*	INGRESSO *INPUT*	USCITA *OUTPUT*
TM2IA12	1A	0 - 5mA
TM2IA13	1A	0 - 10mA
TM2IA14	1A	0 - 20mA
TM2IA16	1A	0 - 5V
TM2IA18	1A	0 - 10V
TM2IA32	5A	0 - 5mA
TM2IA33	5A	0 - 10mA
TM2IA34	5A	0 - 20mA
TM2IA36	5A	0 - 5V
TM2IA38	5A	0 - 10V

INGRESSO

Corrente nominale In: 1 - 1,2 - 5 - 6A
Altri valori a richiesta
Frequenza nominale fn: 50Hz
Eccedenza di breve durata (EN 60688): 20In/1s
Eccedenza continua: 3In
Autoconsumo: ≤ 2,5VA

INPUT

Current rating In: *1 - 1,2 - 5 - 6A*
Other value on request
Frequency rating fn: *50 Hz*
Excessive input of short duration *(EN 60688): 20In/1s*
Continuous excessive input: *3In*
Rated burden: *≤ 2,5VA*

CAMPI NOMINALI DI UTILIZZO (EN 60688)

Frequenza: 47…63Hz (fn 50Hz)
Forma d'onda: sinusoidale, fattore di forma 1,11

NOMINAL RANGE OF USE (EN 60688)

Frequency: *47…63Hz (fn 50Hz)*
Waveform: *sinusoidal, form factor 1,11*

INTERVALLO DI MISURA

Campo nominale d'utilizzo: 20...120%In (precisione cl.0,5)
Campo limite d'utilizzo: 10...120% In (con precisione cl.1)

MEASURING RANGE

Nominal ranhe of use: *20...120%In (accuracy cl.0,5)*
Limit range of use: *10...120%In (with accuracy cl.1)*

USCITA

Tipo: unidirezionale a zero reale, per carico d'uscita variabile
Precisione (EN 60688): classe 0,5
Ondulazione (EN 60688): ≤ 1%
Tempo di risposta (EN 60688): ≤ 300ms
Valori nominali di corrente: 0…5 - 0…10 - 0…20mA
Tensione disponibile: 10V
Carico di uscita: ≤ 500 Ω (20mA) - ≤ 1 kΩ (10mA) - ≤ 2 kΩ (5mA)
Valori nominali di tensione: 0…5 - 0…10V
Carico di uscita: ≥ 100 kΩ (5V) - ≥ 200 kΩ (10V)

OUTPUT

Type: *unidirectional, real zero for variable output load*
Accuracy *(EN 60688): class 0,5*
Ripple content *(EN 60688): ≤ 1%*
Response time *(EN 60688): ≤ 300ms*
Current rated value: *0…5 - 0…10 - 0…20mA*
Compliance voltage: *10V*
Output load: *≤ 500 Ω (20mA) - ≤ 1 kΩ (10mA) - ≤ 2 kΩ (5mA)*
Voltage rated value: *0…5 - 0…10V*
Output load: *≥ 100 kΩ (5V) - ≥ 200 kΩ (10V)*

ALIMENTAZIONE AUSILIARIA

Derivata dalla misura (autoalimentato)

AUXILIARY SUPPLY

Taken from measurement *(selfsupplied)*

ISOLAMENTO (EN 60439-1, EN61010-1)

Categoria di installazione: III
Grado di inquinamento: 2
Tensione di riferimento per l'isolamento: 450V
Prova di tensione a impulso 5kV 1,2/50µs 0,5J
Circuiti considerati: ingresso, uscita
Prova a tensione alternata 2,5kV valore efficace 50Hz/1min
Circuiti considerati: ingresso, uscita
Prova a tensione alternata 4kV valore efficace 50Hz/1min
Circuiti considerati: tutti i circuiti e massa

INSULATION (EN 60439-1, EN61010-1)

Installation category: *III*
Pollution degree: *2*
Insulation reference voltage: *450V*
Impulse voltage test 5kV 1,2/50µs 0,5J
Considered circuits: *input, output*
A.C. voltage test 2,5kV r.m.s. 50Hz/1min
Considered circuits: *input, output*
A.C. voltage test 4kV r.m.s. 50Hz/1min
Considered circuits: *all circuits and earth*

COMPATIBILITA' ELETTROMAGNETICA

Prove di emissione in accordo con EN 50081-1, EN 55011
Prove di immunità in accordo con EN 50082-2

ELECTROMAGNETIC COMPATIBILITY

Emission tests according to EN 50081-1, EN 55011
Immunity tests according to EN 50082-2

Prova di disturbo ad alta frequenza, onda oscillatoria smorzata 1MHz (IEC255-4)

Tensione di prova: 2,5kV modo comune, 1kV modo serie

High frequency disturbance test, 1MHz damped oscillatory wave (IEC255-4)

Test voltage: *2,5kV common mode, 1kV series mode*

CONDIZIONI AMBIENTALI

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]: ≤ 2W

[1] Per il dimensionamento termico dei quadri

ENVIRONMENTAL CONDITIONS

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]: *≤ 2W*

[1] For switchboard thermal calculation

CUSTODIA

Dimensioni: 2 moduli DIN 43880

Connessioni: morsetti fissaggio a vite per conduttore fino a 4mm²

Montaggio: a incastro su profilato 35mm

Tipo profilato: a cappello TH35-15 (EN60715)

Materiale custodia: makrolon autoestinguente

Grado di protezione (EN 60529)**:** IP50 (frontale), IP20 (morsetti)

Peso: 200 grammi

HOUSING

Dimensions: *2 module DIN 43880*

Connections: *screw terminals for cable up to 4mm²*

Mounting: *snap-on 35mm rail*

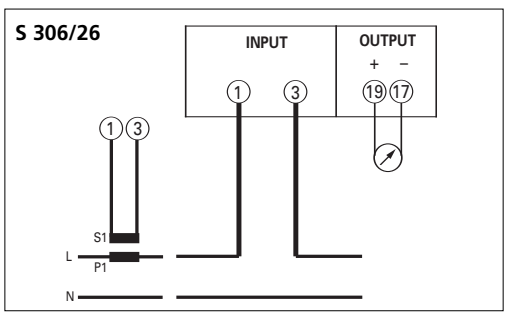
Rail type: *top hat TH35-15 (EN60715)*

Housing material: *self-extinguishing makrolon*

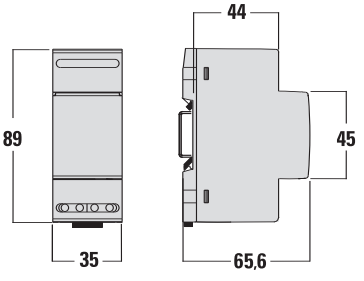
Protection degree *(EN 60529)****:*** *IP50 (front frame), IP20 (terminals)*

Weight: *200 grams*

SCHEMA D'INSERZIONE *WIRING DIAGRAM*



DIMENSIONI *DIMENSIONS*



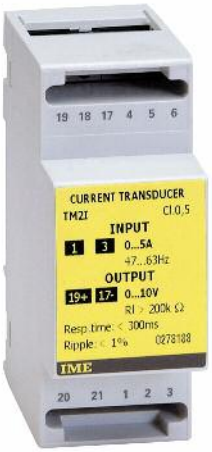
Tema TM2I

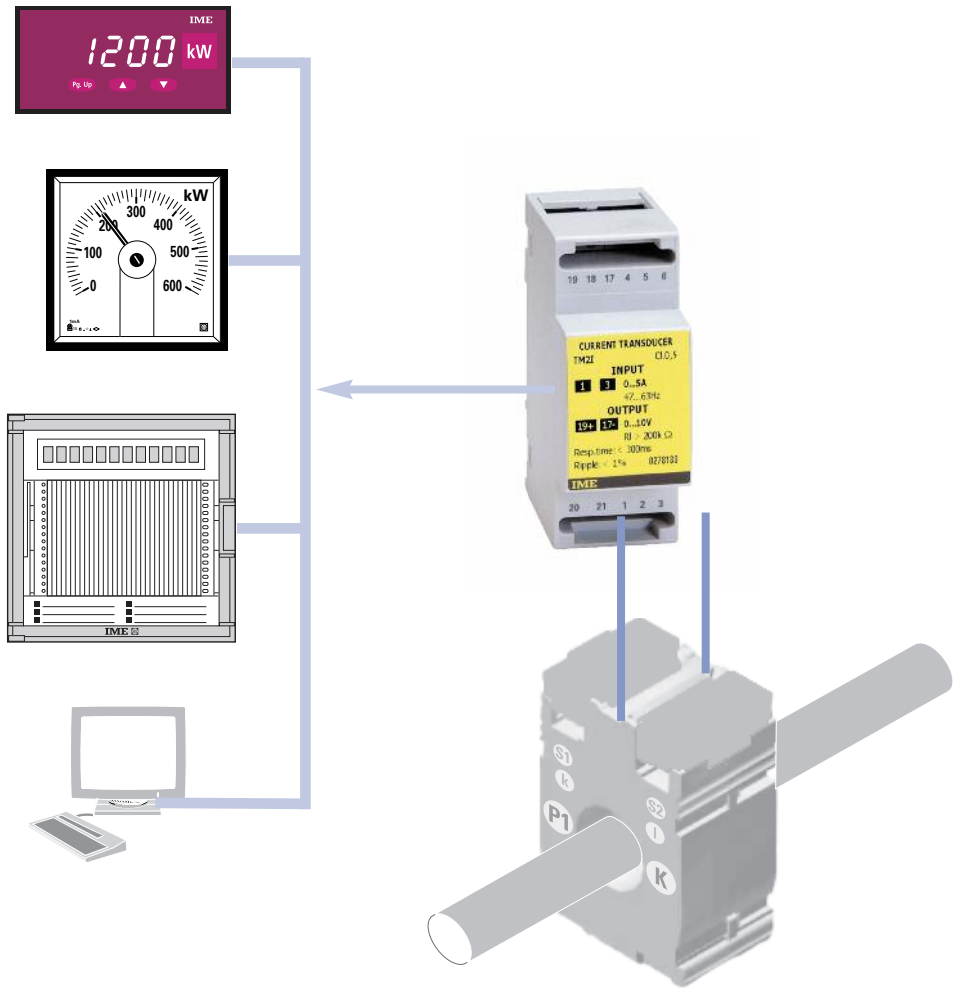
Transducteur de courant alternatif 2 Modules

Mesure de la valeur moyenne, étalonnée par rapport à la valeur efficace
Entrée sur TC/1A - TC/5A

Alternating current transducer 2 Module

To measure average value, calibration according RMS value
Input on CT/1A - CT/5A





Raccordement sur TC/1A ou TC/5A
Connection up to CT/1A or CT/5A

REFERENCE *ORDERING CODE*	ENTREE *INPUT*	SORTIE *OUTPUT*
5025 5230	1A	0 - 5mA
5025 5330	1A	0 - 10mA
5025 5030	1A	0 - 20mA
5025 5430	1A	0 - 5V
5025 5730	1A	0 - 10V
5025 5231	5A	0 - 5mA
5025 5331	5A	0 - 10mA
5025 5031	5A	0 - 20mA
5025 5431	5A	0 - 5V
5025 5009	5A	0 - 10V

ENTREE

Courant nominal In: 1 - 1,2 - 5 - 6A

Autres valeurs sur demande

Fréquence nominale fn: 50Hz

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

Surcharge continue: 3In

Autoconsommation: ≤ 2,5VA

DOMAINES D'UTILISATION (EN 60688)

Fréquence: 47…63Hz (fn 50Hz)

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

ETENDUE DE MESURE

Etendue nominale d'utilisation: 20...120%In (précision cl.0,5)

Etendue limite d'utilisation: 10...120% In (avec précision cl.1)

SORTE

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

Précision (EN 60688): classe 0,5

Ondulation (EN 60688): ≤ 1%

Temps de réponse (EN 60688): ≤ 300ms

Valeur nominale du courant: 0…5 - 0…10 - 0…20mA

Tension disponible: 10V

Charge de sortie: ≤ 500Ω (20mA) - ≤ 1 kΩ (10mA) - ≤ 2 kΩ (5mA)

Valeur nominale de la tension: 0…5 - 0…10V

Charge de sortie: ≥ 100 kΩ (5V) - ≥ 200 kΩ (10V)

ALIMENTATION AUXILIAIRE

Dérivée de la mesure (autoalimentée)

ISOLEMENT (EN 60439-1, EN61010-1)

Catégorie de l'installation: III

Degré de pollution: 2

Tension de référence pour l'isolement: 450V

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

Circuits considérés: entrée, sortie

Tension d'essai 2,5kV valeur efficace 50Hz/1min

Circuits considérés: entrée, sortie

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

Circuits considérés: tous les circuits et la masse

COMPATIBILITE ELECTROMAGNETIQUE

Essai d'émission selon la norme EN 50081-1, EN 55011

Essai d'immunité selon la norme EN 50082-2

Test de distorsion à haute fréquence, 1MHz onde sinusoïdale (IEC255-4)

Tension d'essai: 2,5kV mode commun, 1kV mode série

INPUT

Current rating In: *1 - 1,2 - 5 - 6A*

Other value on request

Frequency rating fn: *50 Hz*

Excessive input of short duration *(EN 60688): 20In/1s*

Continuous excessive input: *3In*

Rated burden: *≤ 2,5VA*

NOMINAL RANGE OF USE *(EN 60688)*

Frequency: *47…63Hz (fn 50Hz)*

Waveform: *sinusoidal, form factor 1,11*

MEASURING RANGE

Nominal ranhe of use: *20...120%In (accuracy cl.0,5)*

Limit range of use: *10...120%In (with accuracy cl.1)*

OUTPUT

Type: *unidirectional, real zero for variable output load*

Accuracy *(EN 60688): class 0,5*

Ripple content *(EN 60688): ≤ 1%*

Response time *(EN 60688): ≤ 300ms*

Current rated value: *0…5 - 0…10 - 0…20mA*

Compliance voltage: *10V*

Output load: *≤ 500 Ω (20mA) - ≤ 1 kΩ (10mA) - ≤ 2 kΩ (5mA)*

Voltage rated value: *0…5 - 0…10V*

Output load: *≥ 100 kΩ (5V) - ≥ 200 kΩ (10V)*

AUXILIARY SUPPLY

Taken from measurement *(selfsupplied)*

INSULATION *(EN 60439-1, EN61010-1)*

Installation category: *III*

Pollution degree: *2*

Insulation reference voltage: *450V*

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

Considered circuits: *input, output*

A.C. voltage test 2,5kV r.m.s. 50Hz/1min

Considered circuits: *input, output*

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

Considered circuits: *all circuits and earth*

ELECTROMAGNETIC COMPATIBILITY

Emission tests according to EN 50081-1, EN 55011

Immunity tests according to EN 50082-2

High frequency disturbance test, 1MHz damped oscillatory wave (IEC255-4)

Test voltage: *2,5kV common mode, 1kV series mode*

CONDITION D'UTILISATION

Groupe d'utilisation: II

Température de référence: 15…30°C

Température limite 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'utilisatin en climat tropical

Puissance maximum dissipée[1]**:** ≤ 2W

[1] Pour le dimensionnement thermique de coffret

ENVIRONMENTAL CONDITIONS

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]***:*** *≤ 2W*

[1] *For switchboard thermal calculation*

BOITIER

Dimensions: 2 modules DIN 43880

Raccordement: par vis capacité maxi. fil rigide 4mm²

Montage: rail 35mm

Type de profil: TH35-15 (EN60715)

Matériaux du boîtier: makrolon autoextinguible

Degré de protection:(EN 60529)**:** IP50 (face avant), IP20 (bornes)

Poids: 200 grammes

HOUSING

Dimensions: *2 module DIN 43880*

Connections: *screw terminals for cable up to 4mm²*

Mounting: *snap-on 35mm rail*

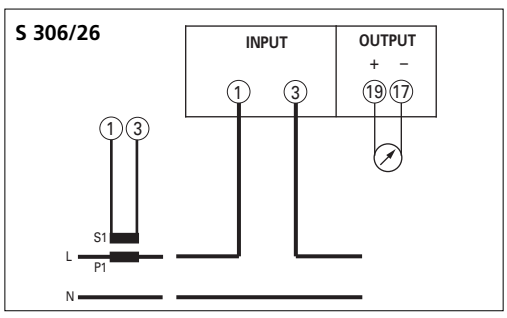
Rail type: *top hat TH35-15 (EN60715)*

Housing material: *self-extinguishing makrolon*

Protection degree *(EN 60529)**: IP50 (front frame), IP20 (terminals)*

Weight: *200 grams*

SCHEMA DE RACCORDEMENT *WIRING DIAGRAM*



DIMENSIONS *DIMENSIONS*