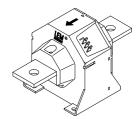
For the electronic measurement of currents : DC, AC, pulsed..., with a galvanic isolation between the primary circuit (high power) and the secondary circuit (electronic circuit).

YEARS CE

| | ectrical data | | | | | | | | |
|------------------------------|--|--|---------------------|------------------------------|--|---|----------------------------|---------------------------------------|--|
| PN | Primary nominal r.m.s. current | | | | 500 | | | | |
| P | Primary current, measuring range | | | | 0 ± 1200 | | | / | |
| R ^M | Measuring resistance @ | | | T _A | = 70°C | T | = 85° | С | |
| | | | | R _M | min R _{M ma} | R _{M mir} | , R _{M ma} | x | |
| | with ± 15 V | @ ± 5 | 500 A _{ma} | , O | 65 | 0 | 60 | ſ | |
| | | @±8 | 300 A _{ma} | , O | 15 | 0 | 12 | S | |
| | with ± 24 V | @ ± 5 | 500 A _{ma} | , O | 145 | 15 | 140 | S | |
| | | @ ± 12 | 200 A _{ma} | , 0 | 22 | 15 | 18 | 2 | |
| SN | Secondary nominal r.m.s. current | | | | | 100 m | | | |
| K _N | Conversion ratio | | | | 1 : | 1:5000 | | | |
| 'c | Supply voltage (± 5 %) | | | | ± ′ | ± 15 24 | | | |
| ; | Current consumption | | | | 30 | $30(@\pm 24V) + I_{s} mA$ | | | |
| d | R.m.s. voltage for AC isolation test, 50 Hz, 1 mn | | | | | 6 | | | |
| , b | R.m.s. rated voltage ¹⁾ , safe separation | | | | 17 | 1750 | | , | |
| - | basic isolation | | | | | 00 | | , | |
| Ac | ccuracy - Dynamic | perform | nance | data | | | | | |
| (_G | Overall accuracy @ I _{PN} | , T _A = 25°C |) | | ± (| D.6 | | % | |
|) | Linearity | | | | < (| D.1 | | % | |
| | | | | | ΙT | yp ľ | Max | | |
| | | | | | | | | | |
| ` | Offset current @ $I_{p} = 0$ | $\mathbf{T}_{A} = 25^{\circ}\mathrm{C}$ | | | | ± | - 0.4 | m/ | |
| - | Offset current @ $\mathbf{I}_{P} = 0$ Thermal drift of \mathbf{I}_{O} | , T _A = 25°C | | C + 85°C |) ± | | ± 0.4 ± 0.5 | | |
| т | Thermal drift of \mathbf{I}_{o} | | - 10°0 | C + 85°0 | 2 ± | 0.3 ± | | mA | |
| - DT | | % of I _{P max} | - 10°0 | C + 85°0 | - 1 | 0.3 = ± | | m/ µ: | |
| o ot r li/dt | Thermal drift of I _o Response time ²⁾ @ 90 | % of I _{P max} | - 10°0 | C + 85℃ | < ' | 0.3 = ± | ± 0.5 | m A بی A/µs | |
| סד li/dt | Thermal drift of I _o Response time ²⁾ @ 90 di/dt accurately followe | % of I _{P max} | - 10°0 | C + 85°C | < ' | 0.3 ± 1 50 | ± 0.5 | m A بی A/µ: | |
| ा fi/dt G | Thermal drift of I _o Response time ²⁾ @ 90 di/dt accurately followe Frequency bandwidth |) % of I _{P max} ed (- 1 dB) | - 10°C | C + 85°C | < ' > { D(| 0.3 ± 1 50 | ± 0.5 | m/ μ: Α/μ: kH | |
| fi/dt | Thermal drift of I _o Response time ²⁾ @ 90 di/dt accurately followe Frequency bandwidth |) % of I _{P max} ed (- 1 dB) nperature | - 10°C | C + 85°C | < 7 > 5 DC | 0.3 ± 1 50 C 150 | ± 0.5 0 85 | m/ µ: A/µ: kH | |
| li/dt G | Thermal drift of I _o Response time ²⁾ @ 90 di/dt accurately followe Frequency bandwidth eneral data Ambient operating ten |) % of I _{P max} ed (- 1 dB) nperature erature | - 10°C | C + 85°C | < 7 > 1 - 1 - 2 | 0.3 ± 1 50 C 150 0 + 8 5 + 7 | ± 0.5 0 85 | m/ باء A/باء kH °(| |
| от r li/dt | Thermal drift of I _o Response time ²⁾ @ 90 di/dt accurately followe Frequency bandwidth eneral data Ambient operating ten Ambient storage temp |) % of I _{P max} ed (- 1 dB) nperature erature | - 10°C | | < 1 - 1 - 2 - 65 | 0.3 ± 1 50 C 150 0 + 8 5 + 7 | ± 0.5 0 85 | ۳۸ باء ۸/باء kH °(°(| |
| fi/dt | Thermal drift of I _o Response time ²⁾ @ 90 di/dt accurately followe Frequency bandwidth eneral data Ambient operating ten Ambient storage temp |) % of I _{P max} ed (- 1 dB) nperature erature | - 10°C | T _A = 70°C | < 1 - 1 - 2 - 65 | 0.3 ± 1 50 C 150 0 + 8 5 + 7 | ± 0.5 0 85 | m / m / A/به kH: °(°(| |

$I_{_{PN}} = 500 \text{ A}$



Features

- Closed loop (compensated) current transducer using the Hall effect
- Insulated plastic case recognized according to UL 94-V0.

Advantages

- Excellent accuracy
- Very good linearity
- Low temperature drift
- Optimized response time
- Wide frequency bandwidth
- No insertion losses
- High immunity to external interference
- Current overload capability.

Applications

- AC variable speed drives and servo motor drives
- Static converters for DC motor drives
- Battery supplied applications
- Uninterruptible Power Supplies (UPS)
- Switched Mode Power Supplies (SMPS)
- Power supplies for welding applications.

Notes : ¹⁾ Pollution class 2. With a non insulated primary bar which fills the through-hole

- ²⁾ With a di/dt of 100 A/µs
- ³⁾ A list of corresponding tests is available

Tel: (02) 8228-0658

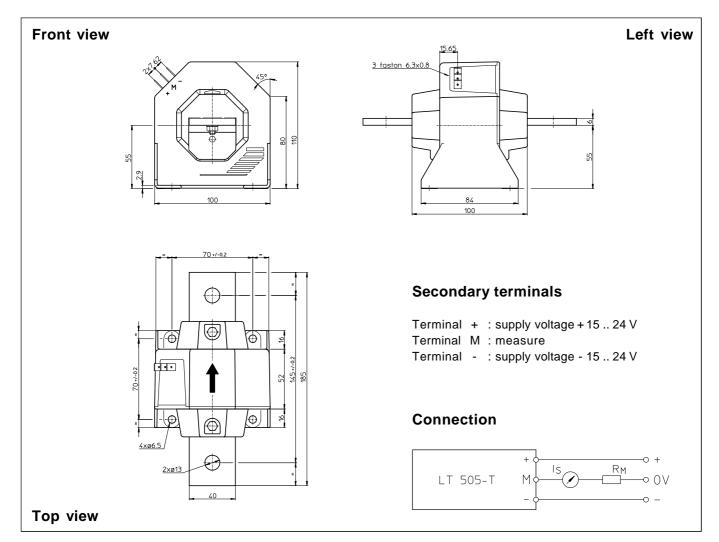
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Tope Co., Ltd.

Fax: (02) 8228-0659 http://www.sensor.com.tw

or.com.tw e-mail: tope@ms1.hinet.net

Dimensions LT 505-T (in mm. 1 mm = 0.0394 inch)



Mechanical characteristics

- General tolerance
- Fastening
- Connection of primary
- Connection of secondary

 \pm 0.5 mm 4 holes \varnothing 6.5 mm or by the primary bar 2 holes \varnothing 13 mm Faston 6.3 x 0.8 mm

Remarks

- I_s is positive when I_p flows in the direction of the arrow.
- Temperature of the primary conductor should not exceed 100°C.
- This is a standard model. For different versions (supply voltages, turns ratios, unidirectional measurements...), please contact us.