## Current Transducer LA 25-NP

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


Notes: ${ }^{1)}$ Pollution class 2
${ }^{2)}$ Measurement carried out after 15 mn functioning
${ }^{3)}$ The result of the coercive field of the magnetic circuit
${ }^{4)}$ With a di/dt of $100 \mathrm{~A} / \mu \mathrm{s}$.

## $I_{P N}=5-6-8-12-25 \mathrm{~A}$



## Features

- Closed loop (compensated) multirange 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.

Dimensions LA 25-NP (in mm. $1 \mathrm{~mm}=0.0394$ inch)


| Number of primary turns | Primary current |  | Nominal output current$\mathrm{I}_{\mathrm{SN}} \quad[\mathrm{~mA}]$ | Turns <br> ratio <br> $\mathbf{K}_{\mathrm{N}}$ | $\begin{aligned} & \text { Primary } \\ & \text { resistance } \\ & \mathbf{R}_{\mathrm{p}} \quad[\mathrm{~m} \Omega] \end{aligned}$ | Primary insertion inductance $L_{p}$ <br> [ $\mu \mathrm{H}$ ] | Recommended connections |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { nominal } \\ & \mathrm{I}_{\mathrm{PN}} \quad[\mathrm{~A}] \end{aligned}$ | maximum $I_{P} \quad[A]$ |  |  |  |  |  |  |  |
| 1 | 25 | 36 | 25 | 1/1000 | 0.3 | 0.023 |  |  | IN |
| 2 | 12 | 18 | 24 | 2/1000 | 1.1 | 0.09 |  | $\begin{array}{llllll} 5 & 4 & 3 & 2 & 1 & 1 \\ 0-9 & 0-0-0 & 1 \\ 0-0 & 0-0-0 \\ 6 & 7 & 8 & 9 & 10 \end{array}$ | in |
| 3 | 8 | 12 | 24 | 3/1000 | 2.5 | 0.21 |  | $5432111$ $0-0,0,0$ $0-\infty \quad 0 \quad 0-0$ <br> UT 678910 | in |
| 4 | 6 | 9 | 24 | 4/1000 | 4.4 | 0.37 |  | 5 4 3 2 1 1 <br> 0 0 -9 9 0  <br> 0 0 - 0 0  <br> 6 7 8 9 10  | IN |
| 5 | 5 | 7 | 25 | 5/1000 | 6.3 | 0.58 |  | 5 4 3 2 1 <br> 0 0 0 0 0 <br> 0 0 0 0 0 <br> 6 7 8 9 10 | IN |

## Mechanical characteristics

- General tolerance
- Fastening \& connection of primary
- Fastening \& connection of secondary
- Recommended PCB hole $\pm 0.2 \mathrm{~mm}$
10 pins $0.7 \times 0.6 \mathrm{~mm}$
3 pins $\varnothing 1 \mathrm{~mm}$
1.2 mm


## Remarks

- $\mathbf{I}_{\mathrm{S}}$ is positive when $\mathbf{I}_{\mathrm{p}}$ flows from terminals $1,2,3,4,5$ to terminals 10, 9, 8, 7, 6
- This is a standard model. For different versions (supply voltages, turns ratios, unidirectional measurements...), please contact us.

