

Questionnaire

Industry current sensor selection

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Company: Name:

Address:

Tel: Fax: Email:

Application

- 1. Application :
 - Variable speed drive
 - UPS
 - Wind generator
 - Active harmonic filter
 - Welding machines
 - Solar
 - Other (description)
- 2. Quantity per year:

Mechanical characteristics

- 1. Sensor fixing:
 - By soldering to the PCB
 - By the enclosure
 - By the primary conductor
- 2. Primary conductor:
 - Cable diameter (mm)
 - Cable connection size (mm)
 - Bar size (mm)
- 3. Secondary connection:
 - By connector
 - By cable without connector
 - Other

Sensor environmental conditions

- 1. Minimum operating temperature (°C)
- 2. Maximum operating temperature (°C)
- 3. Presence of strong electromagnetic fields
- 4. Max. continuous primary conductor voltage (V)
- 5. Main reference standards

Other requirements (description)

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Electrical characteristics

- 1. Nominal current (I_{PN}) (A r.m.s.)
- 2. Current type (if possible, show current profile on graph):
 - Direct
 - Alternating
- 3. Bandwidth to be measured (Hz)
- 4. Current measuring range:
 - Minimum current (A)
 - Maximum current (A)
 - Duration (of max. current) (sec)
 - Repetition (of max. current)
 - Measuring voltage (on R_M) at max current (V)
- 5. Overload current (not measurable):
 - Not measurable overload current (A)
 - Duration (sec)
 - Repetition.....
- 6. Sensor supply voltage:
 - Bipolar supply voltage ($\pm V$)
 - Unipolar supply voltage (0 +V or 0 -V)
- 7. Output current
 - Secondary current at nominal current I_{PN} (mA)
- 8. Current output (NCS range only)
 - Secondary current at maximum current $I_{P_{MAX}}$ (mA)
- 9. Voltage output
 - Secondary voltage at nominal current I_{PN} (V)
- 10. Voltage output (NCS range only)
 - Secondary voltage at maximum current $I_{P_{MAX}}$ (V)

This document is used for selecting sensors according to the application and the clients requirements.

Questionnaire

Railway current sensor selection

Company: Name:

Address:

Tel: Fax: Email:

Application

- 1. Project name
- 2. Application:
 - Rolling stock:
 - Power converter
 - Auxiliary converter
 - Other
 - Short or long distance train:
 - Power converter
 - Auxiliary converter
 - Metro or tramway:
 - Power converter
 - Auxiliary converter
- Fixed installation (e.g. substtion)
- 3. Quantity per year:
- 4. Total quantity for the projet

Mechanical characteristics

- 1. Sensor fixing:
 - By the enclosure
 - By the primary conductor
- 2. Primary conductor:
 - Cable diameter (mm)
 - Bar size (mm)
- 3. Secondary connection:
 - Screw or Faston
 - By connector
 - By shielded cable
 - Other

Electrical characteristics

- 1. Nominal current (I_{PN}) (A r.m.s.)
- 2. Current type (if possible, show current profile on graph):
 - Direct
 - Alternating
- 3. Bandwidth to be measured..... (Hz)
- 4. Current measuring range:
 - Minimum current(A)
 - Maximum current(A)
 - Duration (of max. current) (sec)
 - Repetition (of max. current)
 - Measuring voltage (on RM) at max current (V)
- 5. Overload current (not measurable):
 - Not measurable overload current(A)
 - Duration (sec)
 - Repetition
- 6. Sensor supply voltage:
 - Bipolar supply voltage(±V)
 - Unipolar supply voltage (0 +V or 0 -V)
- 7. Output current
 - Secondary current at nominal current I_{PN} (mA)
- 8. Current output (NCS125 & NCS165 only for fixed installations)
 - Secondary current at maximum current $I_{P_{MAX}}$ (mA)
- 9. Voltage output (NCS125 & NCS165 only for fixed installations)
 - Secondary voltage at nominal current I_{PN} (V)
- 10. Voltage output (NCS125 & NCS165 only for fixed installations)
 - Secondary voltage at maximum current $I_{P_{MAX}}$ (V)

Sensor environmental conditions

- 1. Minimum operating temperature (°C)
- 2. Maximum operating temperature (°C)
- 3. Average nominal operating temperature (°C)
- 4. Maximum continuous primary conductor voltage (V)
- 5. Main reference standards

Other requirements (description)

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