This product is not orderable anymore. Please contact your local distribution partner.



Current Sensor HCME 800A-0-00-CDA-T



| Part number | 20 32 080 0101 |
|--------------------|-------------------------------------|
| Specification | Current Sensor HCME 800A-0-00-CDA-T |
| HARTING eCatalogue | https://b2b.harting.com/20320800101 |

Image is for illustration purposes only. Please refer to product description.

Identification

| Category | Current measurement |
|-------------------|--|
| Series | HCME |
| Element | Current sensor |
| Sensor technology | Hall-Effekt Open loop |
| Features | Measurable currents: AC, DC, pulsed, mixed Galvanic insulation between primary and secondary current Switchboard mounting Housing material and potting mass have a flammability rating UL 94 V-0 Applications: frequency converters, electrical drives, auxiliary converters |

Version

| Termination | Metz Typ 320 (PT11504VBBN) |
|----------------------|----------------------------|
| Field of application | Industrial version |
| Pack contents | Counter connector included |

Technical characteristics

| I _{PN} Nominal primary current | 800 A |
|--|------------|
| I _{PM} Primary current, measuring range | 0 ±1,000 A |
| U _C Power supply | ±15 V ±5 % |
| U _{OUT} Output voltage @ I _{PN} | 4 V |
| R _L Load resistance | >1 kΩ |
| I _C Current consumption @ U _{C min} | 25 mA |

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Technical characteristics

| R _{IN} Insulation resistance | >500,000 kΩ |
|---|---------------------------------------|
| X Overall accuracy @ I _{PN} , T _A = 25 °C | ±1 % |
| E _L Linearity | <0.5 % |
| U _O Offset voltage @ I _P = 0 A, T _A = 25 °C | ±10 mV |
| U _{OOL} Offset after I _{Pmax} | ±10 mV |
| U_{OT} maximum temperature drift of U_{O} | ±1 mV/K |
| U _{outT} thermal gain drift | ± 0,05 %/K |
| t _r Response time @ I _{PN} | <3 µs |
| di/dt with optimal coupling | >50 A/µs |
| f Frequency | 0 50 kHz |
| T _A Ambient temperature | -25 +85 °C |
| T _S Storage temperature | -25 +90 °C |
| U _D Test voltage, effective (50 Hz, 1 min) | 3.5 kV Primary - secondary |
| U _B Rated voltage | 690 V |
| L _s Clearance distance | 22.7 mm |
| K _s Creepage distance | 36.6 mm |
| Tightening torque | 3.2 Nm (2x steel screw M4 - Vertical) |

Material properties

| Polycarbonate (PC) |
|--------------------|
| V-0 |
| compliant |
| compliant |
| е |
| Not contained |
| Not contained |
| Not contained |
| |

Specifications and approvals

| Specifications | EN 50178 |
|----------------|-----------|
| Specifications | IEC 61373 |

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Specifications and approvals

| Approvals | DNV GL |
|-----------|-----------------------------------|
| UL / CSA | UL 508 NMTR2.E359667 |
| | CSA-C22.2 No. 14-13 NMTR8.E359667 |

Commercial data

| Packaging size | 1 |
|--------------------------------|------------------------------|
| Net weight | 236 g |
| Country of origin | Germany |
| European customs tariff number | 90303370 |
| GTIN | 5713140134119 |
| eCl@ss | 27210902 Current transformer |

Remark

- If I_P flows in the direction of the arrow I_S is positive.
- Over currents (»I_{PN}) or the missing of the supply voltage can cause an additional permanent magnetic offset.
- The temperature of the primary conductor may not exceed 100 °C.

Safety note



These transformers may only be used in electrical or power electronic applications which fulfill the relevant regulations (standards, EMC requirements,...).

This transformer must be used in limited-energy secondary circuits according to IEC 61010-1.

Caution, risk of electric shock



- Pay attention to protect non-insulated high-power current carrying parts against direct contact (e.g. with a protective enclosure).
- When installing this sensor please make sure that the safe separation (between primary circuit and secondary circuit) is maintained over the whole circuits and their connections.
- The sensor may only be connected to a power supply respecting the SELV/PELV protective regulations according to EN 50 178. The installation of the power supply must be short-circuit-proof.
- Disconnecting the main power must be possible.
- The current sensors support a safe separation. The creepage and clearance distances are taken as a basis for the rated voltage. They are the shortest distance between the secondary connection and the sensor's window. The actual clearance and creepage distances depend on the position of the primary conductor respectively on the actual shortest distance between the primary conductor and the secondary connection.