

# Current Sensor HCME 2000A-0-00-CPA-0



Part number	20 32 200 0201
Specification	Current Sensor HCME 2000A-0-00- CPA-0
HARTING eCatalogue	https://b2b.harting.com/20322000201

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	Molex 5045-04A
Field of application	Industrial version

#### **Technical characteristics**

I <sub>PN</sub> Nominal primary current	2,000 A
IPM Primary current, measuring range	0 ±5,500 A
U <sub>C</sub> Power supply	±15 V ±5 %
U <sub>OUT</sub> Output voltage @ I <sub>PN</sub>	4 V
R <sub>L</sub> Load resistance	>1 kΩ
I <sub>C</sub> Current consumption @ U <sub>C min</sub>	17 mA
R <sub>IN</sub> Insulation resistance	>500,000 kΩ

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## Technical characteristics

X Overall accuracy @ I <sub>PN</sub> , T <sub>A</sub> = 25 °C	±0.7 %
E <sub>L</sub> Linearity	<0.7 %
U <sub>O</sub> Offset voltage @ I <sub>P</sub> = 0 A, T <sub>A</sub> = 25 °C	±20 mV
U <sub>OOL</sub> Offset after I <sub>Pmax</sub>	±30 mV
${\rm U}_{\rm OT}$ maximum temperature drift of ${\rm U}_{\rm O}$	±1 mV/K
U <sub>outT</sub> thermal gain drift	± 0,1 %/K
t <sub>r</sub> Response time @ I <sub>PN</sub>	<3 µs
di/dt with optimal coupling	>50 A/µs
f Frequency	0 50 kHz
T <sub>A</sub> Ambient temperature	-40 +85 °C
T <sub>S</sub> Storage temperature	-45 +90 °C
U <sub>D</sub> Test voltage, effective (50 Hz, 1 min)	5 kV Primary - secondary
U <sub>B</sub> Rated voltage	690 V
L <sub>s</sub> Clearance distance	11.5 mm
K <sub>s</sub> Creepage distance	16.6 mm
Tightening torque	3.2 Nm (2x steel screw M4 - Vertical) 3.2 Nm (2x steel screw M4 - Horizontal)

# Material properties

Material (hood/housing)	Polycarbonate (PC)
Material flammability class acc. to UL 94	V-0
RoHS	compliant
ELV status	compliant
China RoHS	e
REACH Annex XVII substances	Not contained
REACH ANNEX XIV substances	Not contained
REACH SVHC substances	Not contained

# Specifications and approvals

Specifications	EN 50178
	IEC 61373

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