

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 _{PN} Nominal primary current	2,000 A
IPM Primary current, measuring range	0 ±5,500 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}	17 mA
R _{IN} Insulation resistance	>500,000 kΩ

Page 1 / 3 | Creation date 2022-01-19 | Please note that the data specified here were taken as extracts from the online catalogue. Please refer to the user documentation for the complete and up-to-date information and data. Please also note that the user is responsible for validating functionality, conformity with applicable laws and directives, as well as for the electrical safety in the particular application. HARTING Electric Stiftung & Co. KG | Wilhelm-Harting-Straße 1 | 32339 Espelkamp | Germany Phone +49 5772 47-97100 | electric@HARTING.com | www.HARTING.com



Technical characteristics

X Overall accuracy @ I _{PN} , T _A = 25 °C	±0.7 %
E _L Linearity	<0.7 %
U _O Offset voltage @ I _P = 0 A, T _A = 25 °C	±20 mV
U _{OOL} Offset after I _{Pmax}	±30 mV
${\rm U}_{\rm OT}$ maximum temperature drift of ${\rm U}_{\rm O}$	±1 mV/K
U _{outT} thermal gain drift	± 0,1 %/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	-40 +85 °C
T _S Storage temperature	-45 +90 °C
U _D Test voltage, effective (50 Hz, 1 min)	5 kV Primary - secondary
U _B Rated voltage	690 V
L _s Clearance distance	11.5 mm
K _s 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

Page 2 / 3 | Creation date 2022-01-19 | Please note that the data specified here were taken as extracts from the online catalogue. Please refer to the user documentation for the complete and up-to-date information and data. Please also note that the user is responsible for validating functionality, conformity with applicable laws and directives, as well as for the electrical safety in the particular application. HARTING Electric Stiftung & Co. KG | Wilhelm-Harting-Straße 1 | 32339 Espelkamp | Germany Phone +49 5772 47-97100 | electric@HARTING.com | www.HARTING.com