

Current Sensor HCME 2500A-0-00-CPA-0

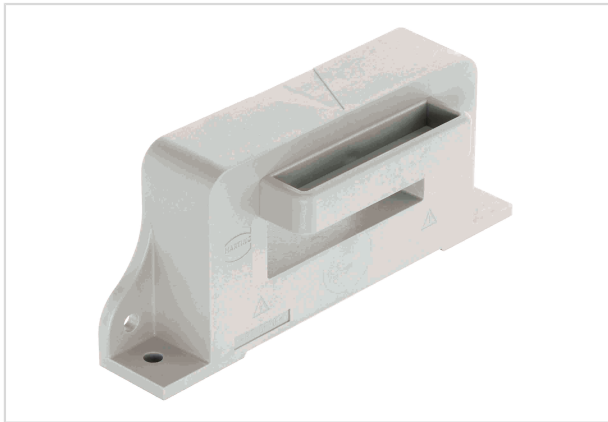


Image is for illustration purposes only. Please refer to product description.

Part number	20 32 250 0201
Specification	Current Sensor HCME 2500A-0-00-CPA-0
HARTING eCatalogue	https://b2b.harting.com/20322500201

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	2,500 A
I_{PM} Primary current, measuring range	0 ... $\pm 5,500$ A
U_C Power supply	± 15 V ± 5 %
U_{OUT} Output voltage @ I_{PN}	4 V
R_L Load resistance	>1 k Ω
I_C Current consumption @ $U_{C min}$	17 mA
R_{IN} Insulation resistance	>500,000 k Ω



Pushing Performance

Technical characteristics

X Overall accuracy @ I _{PN} , T _A = 25 °C	±1 %
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
U _{OT} maximum temperature drift of U _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
----------------	-----------------------