

Current Sensor HCME 600A-0-00-CPA-0



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

Part number	20 32 060 0201
Specification	Current Sensor HCME 600A-0-00-CPA-0
HARTING eCatalogue	https://b2b.harting.com/20320600201

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	600 A
I_{PM} Primary current, measuring range	0 ... $\pm 1,800$ 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



Technical characteristics

X Overall accuracy @ I_{PN} , $T_A = 25\text{ °C}$	$\pm 0.5\%$
E_L Linearity	$< 0.7\%$
U_O Offset voltage @ $I_P = 0\text{ A}$, $T_A = 25\text{ °C}$	$\pm 20\text{ mV}$
U_{OOL} Offset after I_{Pmax}	$\pm 30\text{ mV}$
U_{OT} maximum temperature drift of U_O	$\pm 1\text{ mV/K}$
U_{outT} thermal gain drift	$\pm 0,1\%/K$
t_r Response time @ I_{PN}	$< 3\text{ }\mu\text{s}$
di/dt with optimal coupling	$> 50\text{ A}/\mu\text{s}$
f Frequency	0 ... 50 kHz
T_A Ambient temperature	$-40 \dots +85\text{ °C}$
T_S Storage temperature	$-45 \dots +90\text{ °C}$
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
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Commercial data

Packaging size	1
Net weight	451.9 g
Country of origin	Germany
European customs tariff number	90303370
eCl@ss	27210902 Current transformer

Remark

- If I_P flows in the direction of the arrow I_S is positive.
- Over currents ($\gg I_{PN}$) 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.