

Current Sensor HCM 200A-0-20-CFA-T-S



Part number	20 31 020 0301
Specification	Current Sensor HCM 200A-0-20-CFA-T-S
HARTING eCatalogue	https://b2b.harting.com/20310200301

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

Identification

Category	Current measurement
Series	HCM
Element	Current sensor
Sensor technology	Hall-Effekt Closed loop
Features	Hall effect compensated current sensor Measurable currents: AC, DC, pulsed, mixed High accuracy over the entire measuring range 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, switched mode power suppplies, UPS

Version

Termination	14 12 031 5001 000, har-flexicon 3.81 MTV-3 TB100 BK
Field of application	Industrial version
Pack contents	Counter connector included

Technical characteristics

I _{PN} Nominal primary current	200 A
I _{PM} Primary current, measuring range	0 ±300 A
R _M Measuring resistance @ I _{PM max} , U _{C max} , T _{A max}	$5 \dots 52 \ \Omega$ For other primary currents see diagram.
I _{SN} Nominal secondary current	100 mA
K _N Turns ratio	1:2000



Technical characteristics

U _C Power supply	±12 ±15 V ±5 %
I _C Current consumption @ U _{C min}	17 mA + I _S
X Overall accuracy @ I _{PN} , T _A = 25 °C	±0.5 %
E _L Linearity	<0.1 %
I _O Offset current @ I _P = 0 A, T _A = 25 °C	±0.4 mA
$I_{\mbox{OT}}$ maximum temperature drift of $I_{\mbox{O}}$	±0.4 mA
t _r Response time @ I _{PN}	<1 µs
di/dt with optimal coupling	>100 A/μs
f Frequency	0 100 kHz
T _A Ambient temperature	-40 +85 °C
T _S Storage temperature	-45 +90 °C
R _S Secondary coil resistance @ T _{A max}	29 Ω
U _D Test voltage, effective (50 Hz, 1 min)	3 kV Primary - secondary
U_{St} Rated impulse voltage (1,2/50 μ s)	10 kV
U _B Rated voltage	600 V
Overvoltage category	III
Pollution degree	2
L _s Clearance distance	19.1 mm
K _s Creepage distance	26.5 mm
Tightening torque	3.2 Nm (2x steel screw M4 - Vertical) 3.2 Nm (4x 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	е
REACH Annex XVII substances	Not contained
REACH ANNEX XIV substances	Not contained



Material properties

REACH SVHC substances Not contained

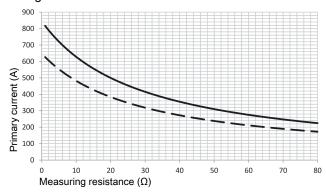
Specifications and approvals

Specifications	EN 50178 IEC 61373
Approvals	DNV GL
CE	Yes

Commercial data

Packaging size	1
Net weight	82 g
Country of origin	Romania
European customs tariff number	90303370
eCl@ss	27210902 Current transformer

Measuring resistance



--- U_C = ±15 V -5 %, T_A = 85 °C --- V_C = ±12 V -5 %, T_A = 85 °C

Primary currents higher than $I_{\mbox{\footnotesize{PM}}}$ only for peak!

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.