

K-No.: 24373

5 ... 80 A Current-Sensor-Module

 For the electronic measurement of currents:
 DC, AC, pulsed, mixed ..., with a galvanic
 isolation between the primary circuit
 (high power) and the secondary circuit

Date: 12.10.2006

Customer: Standard Type

Customers Part No.:
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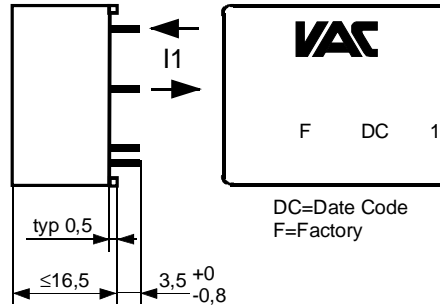
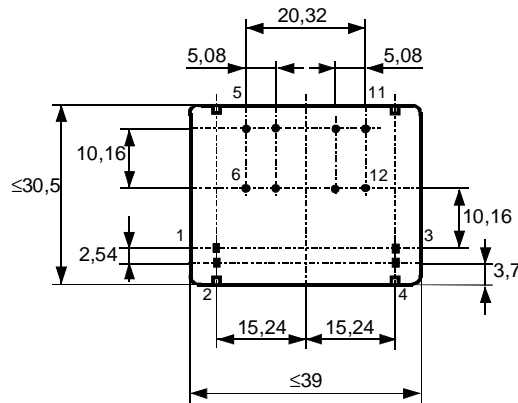
Mechanical outline (mm):

General tolerances DIN ISO 2768-c

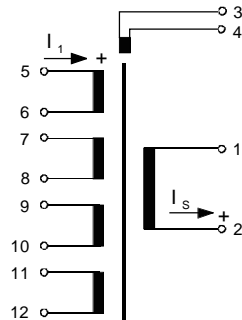
 Toleranz der Stiftabstände $\pm 0,25\text{mm}$
 Tolerances grid distance

 Ziffern 1 - 12 nicht aufgedruckt
 Numbers 1 - 12 not imprinted

Connections:

 Nr.: 1...4 = 0,88x0,6
 Nr.: 5...12 = $\varnothing 1,9$

Marking:

 DC=Date Code
 F=Factory

Schematic diagram

 Pin 1 : K1 } Kompensationswicklung
 Pin 2 : K2 } (compensation winding)

 Pin 3 : S1 } Sensorwicklung
 Pin 4 : S2 } (sensor winding)

 Pin 5.....12 } Primärstrom-Bügel
 (primary current turns)

Inspection (Measurements after temperature balance of the samples at room temperature.)

K_N (N1/N2)* (V)	M3011/6c:	Turns ratio ($I_1=40\text{A}$, 40...80 Hz)	4 : 1000 $\pm 0,5$	%
I_0^*	M3226:	Offset current	< 0.1	mA
$\Delta\Phi$ (K1-K2)* (V)	M3090:	Magnetic Flux compensation core	17...19.5	nVs
$\Delta\Phi$ (S1-S2)* (V)	M3090:	Magnetic Flux sensor	20...35	nVs
R_S (K1-K2)* (V)	M3011/5:	Winding resistance compensation coil	20...35	Ω
R (S1-S2)* (V)	M3011/5:	Winding resistance magnetic probe coil	2.5...3.5	Ω
V_d^* (V)	M3014:	Testing voltage, rms, 1s Pin 1 - 4 to Pin 5 - 12	3.5*	kV
V_e^* (AQL1/S4)	M3024:	Partial discharge voltage	>1240*	V

Applicable documents

Classification of environmental conditions according to EN 60721 5K3

 Current direction: A positive output current appears at point I_s , by primary current in direction of the arrow.

Constructed, manufactured and tested in accordance with EN 50178 and agrees with the standards.

Housing and bobbin material: UL-listed. Flammability class UL 94V-0.

Enclosures according to IEC 60529: IP50.

Additional data available on request.

This specification is no declaration of warranty acc. BGB §443.

 Hrsg.: KB-FB FT
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