## **SIEMENS**

## Data sheet

6BK1900-0CA00-0AA0

SIPLUS HCS4000 I/O MODUL U/I TO MEASURE THE VOLTAGE AND CURRENT FOR: - VOLTAGE COMPENSATION FOR SIPLUS HCS4200 - MONITORING OF PHASE CURRENT - MONITORING OF MAINS VOLTAGE



General information	
Product type designation	I/O4000 U/I
Installation type/mounting	
Mounting type	Screw mounting to CIM
Mounting position	vertical
Type of ventilation	Forced ventilation
Supply voltage	
Design of the power supply	Power supply via CIM
Power	
Active power input, max.	1 W
Interfaces	
Interfaces/bus type	system interface
Interrupts/diagnostics/status information	
Number of status displays	2
LED status display	LED green = Ready, LED red = Error display
Integrated Functions	

Measuring functions	
<ul> <li>Voltage measurement</li> </ul>	Yes
Current measurement	Yes
Operating mode for measured value acquisition	
<ul><li>— Operating frequency, min.</li></ul>	50 Hz
<ul><li>Operating frequency, max.</li></ul>	60 Hz
Measuring inputs for voltage	
<ul> <li>Voltage measurement range, min.</li> </ul>	230 V
<ul> <li>Voltage measuring range, max.</li> </ul>	480 V
<ul> <li>Relative measuring accuracy voltage</li> </ul>	0.5 %
<ul> <li>Design of electrical connection at the measuring inputs for voltage</li> </ul>	Connector, 6-pole with spring-loaded connection
<ul> <li>Connectable conductor cross-sections, solid</li> </ul>	1x (0.2 10 mm²)
<ul> <li>Connectable conductor cross-sections, finely stranded with wire end processing</li> </ul>	1x (0.25 6 mm²)
<ul> <li>Connectable conductor cross-sections for AWG cables</li> </ul>	1x (24 8)
Measuring inputs for current	
<ul> <li>Current measurement range, min.</li> </ul>	0 A
<ul> <li>Current measurement range, max.</li> </ul>	5 A
<ul> <li>Relative measuring accuracy current</li> </ul>	0.5 %
<ul> <li>Design of electrical connection at the measuring inputs for current</li> </ul>	1x 8 pole connector with spring-loaded connection
<ul> <li>Connectable conductor cross-sections, solid</li> </ul>	1x (0.2 1.5 mm²)
<ul> <li>Connectable conductor cross-sections, finely stranded with wire end processing</li> </ul>	1x (0.25 1.5 mm²)
<ul> <li>Connectable conductor cross-sections for AWG cables</li> </ul>	1x (24 16)
Isolation	
Overvoltage category	III
Degree of pollution	2
EMC	
EMC interference emission	Limit value in accordance with IEC 61000-6-4:2007 + A1:2011
Electrostatic discharge acc. to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge
Field-related interference acc. to IEC 61000-4-3	10 V/m (80 1 000 MHz), 3 V/m (1.4 2.0 GHz), 1 V/m (2.0 2.7 GHz)
Conducted interference due to burst acc. to IEC 61000-4-4	2 kV signal lines

61000-4-5

Conducted interference due to surge acc. to IEC

Voltage measurement inputs: 1 kV balanced, 2 kV unbalanced

Conducted interference due to high-frequency radiation acc. to IEC 61000-4-6	10 V (0.15 80 MHz)
Degree and class of protection	
IP degree of protection	IP20
Standards, approvals, certificates	
CE mark	Yes
UL approval	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
China RoHS compliance	Yes
Reference designation according to DIN EN 81346-2	К
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	55 °C
Ambient temperature during storage/transportation	
Storage, min.	-25 °C
Storage, max.	70 °C
Transportation, min.	-25 °C
Transportation, max.	70 °C
Air pressure acc. to IEC 60068-2-13	
Operation, min.	860 hPa
Operation, max.	1 080 hPa
Storage, min.	660 hPa
Storage, max.	1 080 hPa
Altitude during operation relating to sea level	
Installation altitude above sea level, max.	2 000 m
Relative humidity	
Operation at 25 °C, max.	95 %
• Operation at 50 °C, max.	50 %; 95 % at 25 °C, decreasing linearly to 50 % at 50 °C
Vibrations	
<ul> <li>Vibration resistance during operation acc. to IEC 60068-2-6</li> </ul>	10 58 Hz / 0.075 mm, 58 150 Hz / 1 g
<ul> <li>Vibration resistance during storage acc. to IEC 60068-2-6</li> </ul>	5 8.5 Hz / 3.5 mm, 8.5 500 Hz / 1 g
Shock testing	
<ul> <li>Shock resistance during operation acc. to IEC 60068-2-27</li> </ul>	15 g / 11 ms / 3 shocks/axis
Shock resistance during storage acc. to IEC	25 g / 6 ms / 1 000 shocks/axis

60068-2-29

Dimensions	
Width	27 mm
Height	141 mm
Depth	110 mm
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