6BK1900-0CA00-0AA0

Data sheet

SIPLUS HCS4000 I/O module U/I for measuring voltages and currents



General information		
Product type designation	For PM4000 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		
Voltage measurement	Yes	
Current measurement	Yes	
Operating mode for measured value acquisition		
— Operating frequency, min.	50 Hz	
— Operating frequency, max.	60 Hz	
Measuring inputs for voltage		
 Voltage measurement range, min. 	230 V	
 Voltage measuring range, max. 	480 V	
 Relative measuring accuracy voltage 	0.5 %	
 Design of electrical connection at the measuring inputs for voltage 	plug, 6-pole with spring-type terminal, push-in	
 Connectable conductor cross-sections, solid 	1x (0.2 10 mm²)	
 Connectable conductor cross-sections, finely stranded with wire end processing 	1x (0.25 6 mm²)	
 Connectable conductor cross-sections for AWG cables 	1x (24 8)	
Measuring inputs for current		
 Current measurement range, min. 	0 A	
 Current measurement range, max. 	5 A	
 Relative measuring accuracy current 	0.5 %	
 Design of electrical connection at the measuring inputs for current 	plug, 8-pole with spring-type terminal, push-in	
 Connectable conductor cross-sections, solid 	1x (0.2 1.5 mm²)	
 Connectable conductor cross-sections, finely 	1x (0.2 1.5 mm²)	

stranded with wire and processing		
stranded with wire end processing — Connectable conductor cross-sections for	1x (24 16)	
AWG cables	17 (24 10)	
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	
0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	GHz)	
Conducted interference due to burst acc. to IEC 61000-4-	2 kV signal lines	
Conducted interference due to surge acc. to IEC 61000-4-5	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 IEC 81346-2 (2009)	K	
Ambient conditions		
Ambient temperature during operation		
• min.	0 °C	
• max.	55 °C	
Ambient temperature during storage/transportation	05.00	
• Storage, min.	-25 °C 70 °C	
Storage, max.Transportation, min.	-25 °C	
Transportation, max. 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	0.507	
 Operation at 25 °C, max. 	95 %	
Operation at 50 °C, max.	50 %; 95 % at 25 °C, decreasing linearly to 50 % at 50 °C	
Vibrations • Vibration resistance during operation acc. to IEC	10 58 Hz / 0.075 mm, 58 150 Hz / 1 g	
60068-2-6 ■ Vibration resistance during storage acc. to IEC	5 8.5 Hz / 3.5 mm, 8.5 500 Hz / 1 g	
60068-2-6 Shock testing		
Shock resistance during operation acc. to IEC	15 g / 11 ms / 3 shocks/axis	
60068-2-27 • Shock resistance during storage acc. to IEC 60068-	25 g / 6 ms / 1 000 shocks/axis	
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Dimensions		
Width	27 mm	
Height	141 mm	
Depth	110 mm	
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