



spare part 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
— 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 mm ²)
— Connectable conductor cross-sections, finely stranded with wire end processing	1x (0.25 ... 6 mm ²)
— 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
— 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 mm ²)
— Connectable conductor cross-sections, finely stranded with wire end processing	1x (0.2 ... 1.5 mm ²)

— Connectable conductor cross-sections for AWG cables	1x (24 ... 16)	
Accuracy		
— Relative measuring accuracy voltage	0.5 %	
— Relative measuring accuracy current	0.5 %	
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	
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		
• 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		
• Vibration resistance during operation acc. to IEC 60068-2-6	10 ... 58 Hz / 0.075 mm, 58 ... 150 Hz / 1 g	
• Vibration resistance during storage acc. to IEC 60068-2-6	5 ... 8.5 Hz / 3.5 mm, 8.5 ... 500 Hz / 1 g	
Shock testing		
• Shock resistance during operation acc. to IEC 60068-2-27	15 g / 11 ms / 3 shocks/axis	
• Shock resistance during storage acc. to IEC 60068-2-29	25 g / 6 ms / 1 000 shocks/axis	
Dimensions		
Width	27 mm	
Height	141 mm	
Depth	110 mm	
Classifications		
	Version	Classification

eClass	14	27-24-40-02
eClass	12	27-24-40-02
eClass	9.1	27-24-40-02
eClass	9	27-24-40-02
eClass	8	27-24-26-01
eClass	7.1	27-24-26-01
eClass	6	27-24-26-01
ETIM	10	EC002985
ETIM	9	EC002985
ETIM	8	EC002985
ETIM	7	EC002985
IDEA	4	3562
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval	EMV
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