

SIPLUS HCS3200 Compact heating control in Degree of protection IP65 and UL Recognized certification. 9 power outputs max.4000 W each. Notice: Mating connector are in not included in scope of delivery



Figure similar

General information	
Product type designation	HCS3200
Installation type/mounting	
Mounting type	screw fixing
Mounting position	vertical
Type of ventilation	Self-ventilation
Supply voltage	
Type of supply voltage	AC
Rated value (AC)	400 V
• Relative negative tolerance	10 %
• Relative positive tolerance	10 %
Line frequency	
• Rated value 50 Hz	Yes
• Rated value 60 Hz	Yes
• Relative symmetrical tolerance	5 %
Connection method	

- Design of electrical connection for supply voltage
 - Connectable conductor cross-sections, finely stranded with wire end processing
 - Connectable conductor cross-sections for AWG cables

Connector, 2-pole + PE
 2x (6 ... 25 mm²) and 1x PE (6 ... 16 mm²)
 2x (8 ... 4)

Input voltage

Design of the power supply	external
Supply voltage for electronics	24 V
Relative symmetrical tolerance of the input voltage	20 %

Input current

Current consumption for the electronics, max.	0.25 A
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Power electronics

Type of load	Ohmic load
Power capacity, max.	25.2 kW
Switching capacity current per phase, max.	63 A
Breaking capacity maximum short-circuit current (I _{cu}) at 400 V	25 kA
Rated conditional short-circuit current (I _q)	25 kA

Control of heating elements

• Type of control of the heating elements	Half-wave control
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Heating power

• Number of digital outputs	9
• Number of heating elements per output, max.	1
• Output voltage for heating power	400 V
• Power carrying capacity per output, min.	200 W
• Power carrying capacity per output, max.	4 000 W
• Output current for heating power	10 A
• Design of short-circuit protection per output	Fuse 15 A

Fan control

• Number of digital outputs	0
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Connection method

• Design of electrical connection for main circuit	Connector, 5-pole
• Design of electrical connection at output for heating and fan <ul style="list-style-type: none"> — Connectable conductor cross-sections, finely stranded with wire end processing — Connectable conductor cross-sections for AWG cables, stranded 	Connector, 20-pole + PE 18x (1.5 ... 4 mm ²), 1x PE (1.5 ... 16 mm ²) 18x (18 ... 12)

Interfaces

Interfaces/bus type	PROFIBUS DP
PROFIBUS DP	

- Transmission rate, max. 12 Mbit/s
- Design of electrical connection ECOFAST

Protocols

PROFIBUS DP	Yes
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Interrupts/diagnostics/status information

Number of status displays	2
LED status display	LED green = status indicator, LED red = fault indicator
Diagnostics function	Voltage diagnostics

Diagnostic messages

- | | |
|----------------|-----|
| • Wire-break | Yes |
| • Fuse blown | Yes |
| • Load failure | Yes |

Integrated Functions

Monitoring functions	
• Temperature monitoring	Yes
• Type of temperature monitoring	NTC thermistor

Measuring functions	
• Voltage measurement	Yes

Potential separation

Design of electrical isolation between the outputs	Optocoupler between main circuit and PELV
	No

Isolation

Overvoltage category	III
Degree of pollution	2

EMC

EMC interference emission	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 power supply lines / 1 kV signal lines
Conducted interference due to surge acc. to IEC 61000-4-5	On supply lines: 1 kV symmetrical, 2 kV asymmetrical, (24 V DC supply only with external protective measure) for PROFIBUS cable : asymmetrical 1 kV
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	IP65
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Standards, approvals, certificates

CE mark	Yes
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UL approval	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
China RoHS compliance	Yes
Reference designation according to DIN EN 81346-2	Q

Ambient conditions

Ambient temperature during operation	
• min.	0 °C
• max.	50 °C
Ambient temperature during storage/transportation	
• Storage, min.	-40 °C
• Storage, max.	70 °C
• Transportation, min.	-40 °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 %
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	10 ... 58 Hz / 0.15 mm, 58 ... 150 Hz / 1 g
• Vibration resistance during storage acc. to IEC 60068-2-6	5 ... 9 Hz / 3.5 mm, 9 ... 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	300 mm
Height	380 mm
Depth	200 mm
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