



\*\*\*spare part\*\*\* SIPLUS HCS4200 POM4220 Highend with 8 outputs each max. 4600 W (at 230 V AC)

General information	
Product type designation	POM4220 High-end
Installation type/mounting	
Mounting type	Screw mounting to rack
Mounting position	vertical
Type of ventilation	Self ventilation or forced ventilation
Supply voltage	
Type of supply voltage	AC
Rated value (AC)	230 V; phase - neutral conductor
<ul style="list-style-type: none"> <li>Relative negative tolerance</li> <li>Relative positive tolerance</li> </ul>	10 % 30 %
2nd rated value (AC)	277 V; phase - neutral conductor
<ul style="list-style-type: none"> <li>Relative negative tolerance</li> <li>Relative positive tolerance</li> </ul>	25 % 8 %
3rd rated value (AC)	400 V; Phase - phase
<ul style="list-style-type: none"> <li>Relative negative tolerance</li> <li>Relative positive tolerance</li> </ul>	10 % 30 %
4th rated value (AC)	480 V; Phase - phase
<ul style="list-style-type: none"> <li>Relative negative tolerance</li> <li>Relative positive tolerance</li> </ul>	25 % 8 %
Line frequency	
<ul style="list-style-type: none"> <li>Rated value 50 Hz</li> <li>Rated value 60 Hz</li> <li>Relative symmetrical tolerance</li> </ul>	Yes Yes 5 %
Mains buffering	
<ul style="list-style-type: none"> <li>Recovery time after power failure, typ.</li> </ul>	1 s
Connection method	
<ul style="list-style-type: none"> <li>Design of electrical connection for supply voltage               <ul style="list-style-type: none"> <li>Connectable conductor cross-sections, solid</li> <li>Connectable conductor cross-sections, finely stranded with wire end processing</li> <li>Connectable conductor cross-sections for AWG cables</li> </ul> </li> </ul>	plug, 3-pole with spring-type terminal, push-in 1x (0.75 ... 16 mm <sup>2</sup> ) 1x (0.75 ... 16 mm <sup>2</sup> ) 1x (18 ... 4)
Input voltage	
device version of the power supply for electronics	Power supply via rack
Power	
Active power input, max.	1.5 W
Power electronics	
Type of load	Ohmic load

Power capacity, max.	51.2 kW; At 400 V AC
<ul style="list-style-type: none"> <li>• For phase against phase with fan at 40 °C, max.</li> <li>• For phase against phase without fan at 40 °C, max.</li> <li>• For phase against neutral with fan at 40 °C, max.</li> <li>• For phase against neutral without fan at 40 °C, max.</li> </ul>	51.2 kW; At 400 V AC 12.5 kW; At 400 V AC 29.4 kW; at 230 V AC 7.3 kW; at 230 V AC
Switching capacity current per phase, max.	64 A
Short-time withstand current (SCCR) acc. to UL 508A	100 kA
<b>Control of heating elements</b>	
<ul style="list-style-type: none"> <li>• Half-wave control</li> <li>• Soft start</li> <li>• Phase control</li> </ul>	Yes Yes Yes
<b>Load connection type</b>	
<ul style="list-style-type: none"> <li>• Star connection with neutral conductor (single-phase)</li> <li>• Open delta connection (single-phase)</li> <li>• closed delta connection (2-phase)</li> <li>• Closed delta connection (3-phase)</li> <li>• Star connection with neutral conductor (2-phase)</li> <li>• star connection without neutral conductor (3-phase)</li> <li>• 2-pole switching</li> </ul>	Yes Yes No No Yes; Economy circuit No Yes; Phase - neutral conductor, phase - phase
<b>Setpoint input</b>	
<ul style="list-style-type: none"> <li>• Percent</li> <li>• Watts</li> </ul>	Yes Yes
<b>Heating power</b>	
<ul style="list-style-type: none"> <li>• Number of digital outputs</li> <li>• Number of heating elements per output, max.</li> <li>• Output voltage for heating power</li> <li>• 2nd output voltage for heating power</li> <li>• 3rd output voltage for heating power</li> <li>• 4th output voltage for heating power</li> <li>• Power carrying capacity per output, min.</li> <li>• Power carrying capacity per output, max.               <ul style="list-style-type: none"> <li>— for heating elements with high inrush current, max.</li> </ul> </li> <li>• Output current for heating power</li> <li>• Melting I2t value</li> <li>• Design of short-circuit protection per output</li> <li>• Design of overvoltage protection</li> </ul>	8 5; Recommended, depends on tolerance of heating elements 230 V 277 V 400 V 480 V 400 W; at 230 V AC 4 600 W; at 230 V AC 2 700 W; at 230 V AC 20 A; max. 120 A <sup>2</sup> ·s Melting fuse 25 A Transil Diode
<b>Connection method</b>	
<ul style="list-style-type: none"> <li>• Design of electrical connection at output for heating and fan               <ul style="list-style-type: none"> <li>— Connectable conductor cross-sections, solid</li> <li>— Connectable conductor cross-sections, finely stranded with wire end processing</li> <li>— Connectable conductor cross-sections for AWG cables, stranded</li> </ul> </li> </ul>	plug, 4-pole with spring-type terminal, push-in  1x (0.2 ... 10 mm <sup>2</sup> ) 1x (0.25 ... 6 mm <sup>2</sup> )  1x (24 ... 8)
<b>Interfaces</b>	
Interfaces/bus type	system interface
<b>Interrupts/diagnostics/status information</b>	
Number of status displays	11
LED status display	LED green = ready, LED yellow = heating on/off, LED red = error display, LED red = error for each channel
Diagnostics function	Voltage and current diagnosis
<b>Diagnoses</b>	
<ul style="list-style-type: none"> <li>• Fuse blown</li> <li>• Load failure</li> <li>• Triac error</li> <li>• Switch-off threshold for internal device temperature</li> <li>• Parallel-connected heating elements</li> <li>• Rotating field fault</li> <li>• Communication error</li> <li>• Supply voltage not connected</li> </ul>	Yes Yes Yes Yes Yes Yes Yes Yes

• Line voltage outside the permissible range	Yes
• Frequency outside the permissible range	Yes
• Fault current too high	Yes
<b>Integrated Functions</b>	
<b>Monitoring functions</b>	
• Temperature monitoring	Yes
• Type of temperature monitoring	NTC thermistor
<b>Measuring functions</b>	
• Voltage measurement	Yes
• Current measurement	Yes
• Fault current detection	Yes; For 2-pole switching
<b>Potential separation</b>	
Design of electrical isolation between the outputs	Optocoupler and/or protective impedance between main circuit and PELV
	No
<b>Isolation</b>	
Overvoltage category	III
Degree of pollution	2
<b>EMC</b>	
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 power supply lines, 2 kV load lines
Conducted interference due to surge acc. to IEC 61000-4-5	Supply and load lines: 1 kV symmetrical, 2 kV asymmetrical
Conducted interference due to high-frequency radiation acc. to IEC 61000-4-6	10 V (0.15 ... 80 MHz)
<b>Degree and class of protection</b>	
IP degree of protection	IP20
<b>Standards, approvals, certificates</b>	
CE mark	Yes
UL approval	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
China RoHS compliance	Yes
<b>Ambient conditions</b>	
<b>Ambient temperature during operation</b>	
• min.	0 °C
• max.	55 °C
<b>Ambient temperature during storage/transportation</b>	
• Storage, min.	-25 °C
• Storage, max.	70 °C
• Transportation, min.	-25 °C
• Transportation, max.	70 °C
<b>Air pressure acc. to IEC 60068-2-13</b>	
• Operation, min.	860 hPa
• Operation, max.	1 080 hPa
• Storage, min.	660 hPa
• Storage, max.	1 080 hPa
<b>Altitude during operation relating to sea level</b>	
• Installation altitude above sea level, max.	2 000 m
<b>Relative humidity</b>	
• Operation at 25 °C, max.	95 %
• Operation at 50 °C, max.	50 %; 95 % at 25 °C, decreasing linearly to 50 % at 50 °C
<b>Vibrations</b>	
• 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
<b>Shock testing</b>	
• Shock resistance during operation acc. to IEC 60068-2-	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	36 mm
Height	285 mm
Depth	281 mm

**Classifications**

	Version	Classification
eClass	14	27-24-40-01
eClass	12	27-24-40-01
eClass	9.1	27-24-40-01
eClass	9	27-24-40-01
eClass	8	27-24-26-90
eClass	7.1	27-24-26-90
eClass	6	27-24-26-90
ETIM	10	EC002982
ETIM	9	EC002982
ETIM	8	EC002982
ETIM	7	EC002982
IDEA	4	3567
UNSPSC	15	32-15-17-05

**Approvals / Certificates**

General Product Approval	EMV
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