



spare part SIPLUS HCS4300 POM4320 busbar mounting (UL) with 9 outputs each max. 6000 W (at 400 V AC)

General information	
Product type designation	POM4320
Installation type/mounting	
Mounting type	Busbar mounting
Mounting position	vertical
Type of ventilation	Self-ventilation
Supply voltage	
Type of supply voltage	AC
Rated value (AC)	400 V; Phase - phase
<ul style="list-style-type: none"> Relative negative tolerance Relative positive tolerance 	10 % 30 %
2nd rated value (AC)	480 V; Phase - phase
<ul style="list-style-type: none"> Relative negative tolerance Relative positive tolerance 	25 % 8 %
Line frequency	
<ul style="list-style-type: none"> Rated value 50 Hz Rated value 60 Hz Relative symmetrical tolerance 	Yes Yes 5 %
Mains buffering	
<ul style="list-style-type: none"> Recovery time after power failure, typ. 	1 s
Connection method	
<ul style="list-style-type: none"> Design of electrical connection for supply voltage 	Busbar mounting, 3-pole + PE
Input voltage	
device version of the power supply for electronics	Power supply via CIM
Power	
Active power input, max.	8 W
Power electronics	
Type of load	Ohmic load
Power capacity, max.	64.8 kW; At 480 V AC
<ul style="list-style-type: none"> For phase against phase with fan at 40 °C, max. 	64.8 kW; At 480 V AC
Switching capacity current per phase, max.	80 A
Short-time withstand current (SCCR) acc. to UL 508A	100 kA
Control of heating elements	
<ul style="list-style-type: none"> Half-wave control Soft start Phase control 	Yes Yes No
Load connection type	
<ul style="list-style-type: none"> Star connection with neutral conductor (single-phase) Open delta connection (single-phase) 	No Yes; Incoming fuse contained in the device

• closed delta connection (2-phase)	No
• Closed delta connection (3-phase)	No
• Star connection with neutral conductor (2-phase)	No
• star connection without neutral conductor (3-phase)	No
• 2-pole switching	No
Setpoint input	
• Percent	Yes
• Watts	No
Heating power	
• Number of digital outputs	9
• Number of heating elements per output, max.	1
• Output voltage for heating power	400 V
• 2nd output voltage for heating power	480 V
• Power carrying capacity per output, min.	240 W; At 480 V AC
• Power carrying capacity per output, max.	7 200 W; At 480 V AC
— for heating elements with high inrush current, max.	4 000 W; At 480 V AC
• Output current for heating power	15 A; max.
• Melting I2t value	400 A ² ·s
• Design of short-circuit protection per output	Melting fuse 20 A
• Design of overvoltage protection	Transil Diode
Connection method	
• Design of electrical connection at output for heating and fan	plug, 3-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, stranded	1x (24 ... 8)
Interfaces	
Interfaces/bus type	system interface
Interrupts/diagnostics/status information	
Number of status displays	12
LED status display	LED green = ready, LED yellow = heating on/off, LED red = error display, LED red = error for each channel
Diagnostics function	Voltage diagnostics
Diagnoses	
• Fuse blown	Yes
• Load failure	Yes
• Triac error	Yes
• Switch-off threshold for internal device temperature	Yes
• Parallel-connected heating elements	No
• Rotating field fault	Yes
• Communication error	Yes
• Supply voltage not connected	Yes
• Line voltage outside the permissible range	Yes
• Frequency outside the permissible range	Yes
• Fault current too high	No
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Type of temperature monitoring	NTC thermistor
Measuring functions	
• Voltage measurement	Yes
• Current measurement	No
• Fault current detection	No
Potential separation	
Design of electrical isolation between the outputs	Optocoupler and/or protective impedance between main circuit and PELV
	No
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 power supply lines, 2 kV load lines	
Conducted interference due to surge acc. to IEC 61000-4-5	on supply and load lines: 1 kV symmetric, 2 kV unsymmetric	
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)	Q	
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	104 mm	
Height	340 mm	
Depth	250 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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