## 6BK1943-2AA00-0AA1

Data sheet



SIPLUS HCS4300 POM4320 busbar mounting (IEC) with 9 outputs each max. 6400 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> <li>Relative negative tolerance</li> </ul>	10 %	
Relative positive tolerance	30 %	
2nd rated value (AC)	480 V; Phase - phase	
<ul> <li>Relative negative tolerance</li> </ul>	25 %	
Relative positive tolerance	8 %	
Line frequency		
<ul> <li>Rated value 50 Hz</li> </ul>	Yes	
<ul> <li>Rated value 60 Hz</li> </ul>	Yes	
Relative symmetrical tolerance	5 %	
Mains buffering		
<ul> <li>Recovery time after power failure, typ.</li> </ul>	1 s	
Connection method		
<ul> <li>Design of electrical connection for supply voltage</li> </ul>	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.	57.6 kW; At 400 V AC	
<ul> <li>For phase against phase with fan at 40 °C, max.</li> </ul>	57.6 kW; At 400 V AC	
Switching capacity current per phase, max.	83 A	
Control of heating elements		
Half-wave control	Yes	
Soft start	Yes	
Phase control	No	
Load connection type		
<ul> <li>Star connection with neutral conductor (single- phase)</li> </ul>	No	
<ul> <li>Open delta connection (single-phase)</li> </ul>	Yes; Incoming fuse contained in the device	

<ul> <li>closed delta connection (2-phase)</li> </ul>	No
<ul> <li>Closed delta connection (3-phase)</li> </ul>	No
<ul> <li>Star connection with neutral conductor (2-phase)</li> </ul>	No
• star connection without neutral conductor (3-phase)	No 
2-pole switching	No
Setpoint input	V
• Percent	Yes
Watts	No
Heating power	9
<ul><li>Number of digital outputs</li><li>Number of heating elements per output, max.</li></ul>	1
Output voltage for heating power	400 V
2nd output voltage for heating power	480 V
Power carrying capacity per output, min.	200 W; At 400 V AC
Power carrying capacity per output, min.     Power carrying capacity per output, max.	6 400 W; At 400 V AC
Fower carrying capacity per output, max.  — for heating elements with high inrush current,	4 000 W; At 400 V AC
max.	4 000 W, At 400 V AC
<ul> <li>Output current for heating power</li> </ul>	16 A; max.
Melting I2t value	250 A²·s
Design of short-circuit protection per output	Fuse 16 A
Design of overvoltage protection	Transil Diode
Connection method	
<ul> <li>Design of electrical connection at output for heating and fan</li> </ul>	plug, 3-pole with spring-type terminal, push-in
<ul> <li>Connectable conductor cross-sections, solid</li> </ul>	1x (0.2 10 mm²)
<ul> <li>Connectable conductor cross-sections, finely stranded with wire end processing</li> </ul>	1x (0.25 6 mm²)
<ul> <li>Connectable conductor cross-sections for AWG cables, stranded</li> </ul>	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
<ul> <li>Switch-off threshold for internal device temperature</li> </ul>	Yes
<ul> <li>Parallel-connected heating elements</li> </ul>	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  The soft transport to a soft training.	Yes
Type of temperature monitoring	NTC thermistor
Measuring functions	Voc
Voltage measurement     Current measurement	Yes
Current measurement     Toult suggest detection	No
Fault current detection	No
Potential separation	
Design of electrical isolation	Optocoupler and/or protective impedance between main circuit and PELV
between the outputs	No
Isolation	

Overvoltage category	III
Overvoltage category	2
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	No
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	
<ul> <li>Operation, min.</li> </ul>	860 hPa
<ul> <li>Operation, max.</li> </ul>	1 080 hPa
<ul> <li>Storage, min.</li> </ul>	660 hPa
Storage, max.	1 080 hPa
Altitude during operation relating to sea level	
<ul> <li>Installation altitude above sea level, max.</li> </ul>	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
	oo 70, 00 70 at 20 °C, accreasing inicarry to 00 70 at 00 °C
Vibrations  ■ Vibration resistance during operation acc. to IEC 60068-2-6	10 58 Hz / 0.075 mm, 58 150 Hz / 1 g
<ul> <li>Vibration resistance during storage acc. to IEC 60068-2-6</li> </ul>	5 8.5 Hz / 3.5 mm, 8.5 500 Hz / 1 g
Shock testing	
	45 a / 44 may / 2 abacka/avia
Shock resistance during operation acc. to IEC 60068-2-27	15 g / 11 ms / 3 shocks/axis
<ul> <li>Shock resistance during storage acc. to IEC 60068- 2-29</li> </ul>	25 g / 6 ms / 1 000 shocks/axis
Dimensions	
Width	104 mm
Height	340 mm
Depth	250 mm
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