SIEMENS

Data sheet

6BK1943-2BA00-0AA2



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

General information		
Product type designation	POM4320 BUSBAR MOUNTING (UL)	
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	
Relative negative tolerance	10 %	
Relative positive tolerance	30 %	
2nd rated value (AC)	480 V; Phase - phase	
 Relative negative tolerance 	25 %	
Relative positive tolerance	8 %	
Line frequency		
Rated value 50 Hz	Yes	
Rated value 60 Hz	Yes	
Relative symmetrical tolerance	5 %	
Mains buffering		
 Recovery time after power failure, typ. 	1 s	
Connection method		
 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	
 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		
Half-wave control	Yes	
Soft start	Yes	
Phase control	Yes	
Load connection type		
 Star connection with neutral conductor (single-phase) 	No	
 Open delta connection (single-phase) 	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	0
Number of logital outputs	1
Output voltage for besting power	1
Output voltage for heating power	400 V
• 2nd output voltage for neating 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 mm²)
 Connectable conductor cross-sections, finely stranded with wire end processing 	1x (0.25 6 mm²)
— 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	10
Number of status displays	12
LED status display	LED green = ready, LED yellow = heating on/off, LED red = error display, LED
LED status display	LED green = ready, LED yellow = heating on/off, LED red = error display, LED red = error for each channel
LED status display Diagnostics function Diagnostics	LED green = ready, LED yellow = heating on/off, LED red = error display, LED red = error for each channel Voltage diagnostics
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LED status display Diagnostics function Diagnoses • Fuse blown • Load failure	LED green = ready, LED yellow = heating on/off, LED red = error display, LED red = error for each channel Voltage diagnostics Yes Yes
LED status display Diagnostics function Diagnoses • Fuse blown • Load failure • Triac error	LED green = ready, LED yellow = heating on/off, LED red = error display, LED red = error for each channel Voltage diagnostics Yes Yes Yes
LED status display Diagnostics function Diagnoses • Fuse blown • Load failure • Triac error • Switch-off threshold for internal device temperature	LED green = ready, LED yellow = heating on/off, LED red = error display, LED red = error for each channel Voltage diagnostics Yes Yes Yes Yes
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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

last modified:

10/18/2021 🖸