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Data sheet 6BK1700-4BA70-0AA0



Figure similar

spare part SIPLUS HCS724I LA724I HP power output for central interface ZA724I

General information	
Product type designation	LA724I HP
Installation type/mounting	
Mounting type	Screws in fixing lugs at top and bottom
Mounting position	vertical
Type of ventilation	Self ventilation or forced ventilation
Supply voltage	
Type of supply voltage	AC
Rated value (AC)	400 V
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	Bus bar or ring cable lug
Input voltage	
device version of the power supply for electronics	Power supply via central connection
Power electronics	
Type of load	Ohmic load
Power capacity, max.	48 kW
● For phase against phase with fan at 40 °C, max.	36.5 kW
● For phase against phase without fan at 40 °C, max.	22.6 kW
● For phase against neutral with fan at 40 °C, max.	21 kW
● For phase against neutral without fan at 40 °C, max.	13 kW
Switching capacity current per busbar, max.	120 A
Switching capacity current per phase, max.	40 A
Control of heating elements	
● Type of control of the heating elements	Half-wave control
Heating power	
● Number of digital outputs	12
● Number of heating elements per output, max.	5
● Output voltage for delta connection	400 V
● Output voltage for star connection	230 V
● Power carrying capacity per output, min.	75 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 16 A
● Design of overvoltage protection	Transil diodes

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Connection method	
● Design of electrical connection at output for heating and fan	Socket strip, 8-pole
— Connectable conductor cross-sections, solid	1x (0.2 ... 1.5 mm²)
— Connectable conductor cross-sections, finely stranded with wire end processing	1x (0.2 ... 1.5 mm²)
— Connectable conductor cross-sections for AWG cables, stranded	28 ... 16
Interfaces	
Interfaces/bus type	system interface
Interrupts/diagnostics/status information	
Number of status displays	4
LED status display	1 LED green = LA status indicator, 3 LEDs red = fault indicator LA per phase
Diagnostics function	Voltage and current diagnosis
Diagnoses	
● Wire break	Yes
● Fuse blown	Yes
● Load failure	Yes
Integrated Functions	
Monitoring functions	
● Temperature monitoring	Yes
● Type of temperature monitoring	NTC thermistor
Measuring functions	
● Current measurement	Yes
Measuring inputs for current	
— Design of electrical connection at the measuring inputs for current	Internal
Potential separation	
between the outputs	No
Isolation	
Overvoltage category	III
Degree of pollution	2
EMC	
EMC interference emission	Limit value class A to EN 55011 group 1
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 voltage supply cables / 2 kV signal cables
Conducted interference due to surge acc. to IEC 61000-4-5	on power supply and signal cables: 1 kV symmetrical, 2 kV unsymmetrical
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	
Certificate of suitability	CE, KCC
CE mark	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.	-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

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● 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 %
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	50 mm
Height	480 mm
Depth	210 mm

Classifications

	Version	Classification
eClass	16	27-24-40-01
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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