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Data sheet 6BK1700-4BA80-0AA0



Figure similar

Spare part SIPLUS HCS716I LA716I power output module with 16 channels max. 1150 W each. For operation, a rack is required. The 5x 20 mm fuses associated with each channel 5 A quick-response are (replaceable) to be plugged onto open fuse holders; 2-phase line infeed via front-side 3-pole connector (included in scope of supply). Radiator outlets via 2x8-pole pin connectors (not included in scope of supply)

General information	
Product type designation	LA716I
Installation type/mounting	
Mounting type	Mounting clip in the rack
Mounting position	vertical
Type of ventilation	Self ventilation or forced ventilation
Supply voltage	
Type of supply voltage	AC
Rated value (AC)	230 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	Connector, 3-pin
— 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	24 ... 8
Input voltage	
device version of the power supply for electronics	Power supply via module rack
Power electronics	
Type of load	Ohmic load
Power capacity, max.	14.72 kW
● For phase against phase with fan at 40 °C, max.	14.72 kW
● For phase against phase without fan at 40 °C, max.	6.5 kW
Switching capacity current per phase, max.	32 A
Control of heating elements	
● Type of control of the heating elements	Full-wave control
Heating power	
● Number of digital outputs	16
● Number of heating elements per output, max.	1
● Output voltage for star connection	230 V
● Power carrying capacity per output, min.	75 W
● Power carrying capacity per output, max.	1 150 W
● Output current for heating power	5 A
● Design of short-circuit protection per output	Fuse 5 A

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● Design of overvoltage protection	Transil diodes
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	
Diagnostics function	Voltage diagnostics
Diagnoses	
● Wire break	Yes
● Fuse blown	Yes
● Load failure	Yes
Integrated Functions	
Monitoring functions	
● Temperature monitoring	Yes
● Type of temperature monitoring	NTC thermistor
Potential separation	
Design of electrical isolation	Optocoupler between main circuit and SELV / PELV
between the outputs	No
Isolation	
Overvoltage category	III
Degree of pollution	2
EMC	
EMC interference emission	in accordance with EN 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 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	IP00
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
● 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

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Relative humidity	
● Operation at 25 °C, max.	95 %
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	31 mm
Height	233.4 mm
Depth	279 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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