DC-AC Converter INVR2000-110-230-K6

Inverter for Rail Applications

Technical Data

General
Insulation coordination: according to EN 50124
Electrical safety: overload- and short-circuit protected
Efficiency: > 86 %
Galvanic isolation: 3.75 kVAC

Electrical data – Input DC
Nominal voltage: $U_{N} = 110 \text{ VDC}$
Voltage range: 77 – 154 VDC

Electrical data – Output AC
Nominal voltage: 230 VAC, 1-phase, floating
Fault tolerance: +/- 5 %
Frequency: 50 Hz, sine wave processor controlled
Maximum output power: 2000 VA / 1600 W
Power factor: 0.8
Load range: 0 – 100 %
Crest factor: > 2.5
Harmonic distortion: < 3 %
Overload capability: 1.50 x $P_{\text{Nom}}$ for 3 seconds
Restart after overload: restart attempt every 30 seconds

Ambient conditions
Operation temperature: -25°C to +70°C, non-condensing
Rel. humidity: 0 – 100 %
Shock and vibration: according to EN 61373 1B
EMC: according to EN 50121-3-2

Operation
Remote on/off: via optocoupler, $U_{R} = 15-154 \text{ VDC}$, reverse polarity protection

Signalling
Electrical: 1 x potential-free alarm contact
Visual: green LED for „Power Good“; red LED for overload, short-circuit on the output, excess temperature, fan fail and AC OVP/UVP; LCD dot matrix display

Housing
19” rack mounting case

Dimensions
19”, 3 U, 290 mm depth

Classification
IP 20

Ventilation
forced air cooling, temperature controlled
max. volume flow: 130 m³/h

Electrical connections
Input DC: • X1
Remote on/off: • X2
Signal: • X2.1
Output AC: • X3
Phoenix PC 6/3-GF-10,16
Phoenix MC1,5/6-GF-3,81
Phoenix MC1,5/6-GF-3,81
Phoenix PC4, 6-pole

Order Code
INVR2000-110-230-K6

Warranty
24 months

Subject to change without notice.

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Version 1.0
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Mechanical data
All dimensions in mm.