DC-AC Converter INVR2000-110-230-K3
Inverter for Sub-Chassis mounting in Rail Applications

Specification

General
Electrical safety  EN 60950, VDE 0805
overload- and short circuit protected

Electrical data
Input
Input voltage nom.  \( U_N = 110V_{DC} \)
Input range  77 - 154V_{DC} (0,7 - 1,4 \times U_N)

Output
Output voltage nom.  230V_{AC}, 1-phase
Output frequency  50Hz
Voltage stability  +/-5%
Efficiency  >86%
Output power max.  2000VA/1600W
Output current  nominal 6,95A
Short circuit current  \( I_{SC} = 20A \)
Power factor  0.8
Load range  0-100%
Crestfactor  >2,5
Harmonic distortion  <2%
Overload capability  1,50 x \( P_{NOM} \) for 3 seconds
Restart after overload  after 30 seconds

Ambient conditions
Operating temperature  -40°C to +70°C, meets EN50155
Rel. humidity  <75% average per year
Shock and vibration  acc. to EN50155, „mounted into frame“
frequency range: 5-150Hz
transfer frequency: 8,2Hz
Oscillation amplitude  below transit frequency: 7,5mm
Acceleration amplitude  above transit frequency: 20m/s²

EMC
According to  EN50121-3-2

Signal contact
Remote on/off  potential free, max. 150V_{DC}/10mA
Signal  1 pole switch, max. 250V_{AC}/1A
LED green  power good
LED red  overvoltage, fan failure, excess temperature and short circuit

Mechanical data
Case material  sheet steel, zinc-plated
Dimension  600 x 270 x 170 mm (W x D x H)
Weight  approx. 12kg
IP 20  forced ventilation, fan speed is depending on temperature and inverter output power

Connecting terminals
Input: -X1  Phoenix Power Combi Con, male, PC6/3-GF-10-16 / 10mm², with locking device
Remote on/off: -X2.1  Wago cage spring clamps, 2,5mm²
Signal: -X2.2  Wago cage spring clamps, 2,5mm²
Output: -X3  Wago cage spring clamps, 2,5mm²

Warranty  24 months