DC-AC Converter INVR2000-24-230-K4
Inverter for Rail Applications

Specification

General
Insulation coordination EN 50124
Electrical safety overload- and short circuit protected

Electrical data
Input
Nominal input voltage $U_{N} = 24 \text{ V}_{\text{DC}}$
Voltage range 17 to 33 $\text{V}_{\text{DC}}$

Output
Nominal output voltage 230 $\text{V}_{\text{AC}}$, single-phase
Output frequency 50 Hz, sine wave processor controlled
Voltage stability +/-5 %
Efficiency > 88 %
Output power max. 2000 VA / 1600 W
Output current nominal 6.95 A
Short circuit current $I_{sc} = > 18 \text{ A}$
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 3 times after 3 seconds, then after 60 seconds

Ambient conditions
Operating temperature -25°C to +70°C, acc. to EN50155
Rel. humidity < 75 % average per year
Shock and vibration according to EN61373 B
EMC according to EN50121-3-2

Signals
Remote on/off potential-free, 16 – 34 $\text{V}_{\text{DC}}$/<10mA
Signal contact single-pole switch, max. 250 $\text{V}_{\text{AC}}$/ 1 A
LED green power good
LED red overvoltage, fan failure, excess temperature and short circuit

Mechanical data
Case material sheet steel, zinc-plated
Dimensions 460 x 300 x 120 mm (W x D x H)
Weight approx. 12 kg
Protection class IP 22
Mounting position horizontal and vertical
Cooling forced ventilation, temperature-controlled

Connecting terminals
Input DC: -X1 Phoenix PC 35, 3-pole
Remote on/off: -X2 Phoenix DFK MC1.5, 6-pole
Signal: -X2.1 Phoenix DFK MC1.5, 6-pole
Output AC: -X3 Phoenix PC4, 6-pole

Order Code INVR2000-24-230-K4
Warranty 24 months

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Mechanical data

All dimensions in mm.

Mounting holes:

In order to fasten the device, self-locking nuts must be used. These nuts must be tightened to a maximum torque of 8 Nm.