

**Certificate of conformity
NS protection**

Nr: 2015 – 1520

Signed copy No. 1

Manufacturer

Steca Elektronik GmbH

Type of NS protection

Steca-ENS; integrated NS protection

Type Power generation unit

Turbo 3P1, Turbo 3P2

Network connection rule

VDE-AR-N 4105

„Power generation system connected to the low-voltage grid“

Technical minimum requirements for connection and parallel operation of power generation systems connected to the low-voltage grid

The network and systems protection mentioned above meets the requirements of VDE-AR-N 4105.

setting values and trip times (disconnection times):

voltage drop protection U<:	184 V, < 200 ms
Rise-in voltage protection U>*:	253 V, < 200 ms
Rise-in voltage protection U>>:	264 V, < 200 ms
Frequency decrease protection f<:	47,5 Hz, < 200 ms
Frequency increase protection f>:	51,5 Hz, < 200 ms

* 10-minute running mean value according to DIN EN 50160

Islanding detection is carried out by means of 3-phase-voltage-monitoring.

It is hereby confirmed that – except the above mentioned items - the specific requirements of DIN V VDE V 0126-1-1:2006-02 +A1:2011-06 have been tested.

VDE-AR-N 4105 compliance is guaranteed in all inverters with firmware "Net13_ENS_APP_0_26_0.upd " or higher.

Memmingen, 08.04.2015

Steca Elektronik GmbH

ppa. Ralf Griepentrog

This certificate of conformity shall not be used in parts.



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