

# Declaration of Reliability

We manufacturer

**CARLO GAVAZZI INDUSTRI A/S,**  
Over Hadstenvej 40, DK-8370 Hadsten, Denmark. Tel. +45 89606100

declare that the MTTF value of the product

**PD30CNB20NASA**

is calculated according to:

EN ISO 13849-1:2008

SN 29500

Safety of machinery. Safety-related parts of control systems.  
General principles for design Part count method (Annex D.1)  
MTTFd data of electrical components (typical and worst case)

at operative temperature of 40°C,

## MTTF Calculation

|                            | <b>MTTF</b>                               | <b>MTTF<sub>d</sub></b> | <b>MTTF<sub>d</sub>* worst case</b> |
|----------------------------|---|-------------------------|-------------------------------------|
|                            | [years]                                   | [years]                 | [years]                             |
| <i>Calculation Formula</i> | $\frac{1}{\sum_{i=1}^n \frac{1}{MTTF_n}}$ | $MTTF \times 2$         | $\frac{MTTF}{10} \times 2$          |
| <i>Result</i>              | <b>444.7</b>                              | <b>889.4</b>            | <b>88.9</b>                         |


\*with safety factor 10

## Manufacturer

Hadsten, January 23, 2025

Place/Date  
Signature

Name :

  
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Luigi Cascavilla  
(Managing Director)

### Notes:

This Manufacturer's Declaration of Reliability is not to be intended as a product guarantee.

Manufacturer's point of contact: UAB Carlo Gavazzi Industri Kaunas, Raudondvario Pl.101 Kaunas, LT-47184 Lithuania



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