CARLO GAVAZZI
Automation Components

CARLO GAVAZZI

Issue No.: 20250123

# 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

**PH18CNP50NAT1SA**

is calculated according to:

| | |
|---|---|
| **EN ISO 13849-1:2008** | Safety of machinery. Safety-related parts of control systems. General principles for design Part count method (Annex D.1) |
| **SN 29500** | MTTFd data of electrical components (typical and worst case) |

at operative temperature of 40°C,

## MTTF Calculation

| | ***MTTF*** | ***$MTTF_d$*** | ***$MTTF_d$* worst case*** |
|---|---|---|---|
| | *[years]* | *[years]* | *[years]* |
| *Calculation Formula* | $\frac{1}{\sum_1^n \frac{1}{MTTF_n}}$ | $MTTF \times 2$ | $\frac{MTTF \times 2}{10}$ |
| *Result* | ***474.3*** | ***948.6*** | ***94.9*** |

*with safety factor 10

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**Manufacturer**

**Place/Date** Hadsten, January 23, 2025

**Signature**

**Name :** Luigi Cascavilla
(Managing Director)

Notes:
This Manufacture'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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