

# Declaration of Reliability

We manufacturer

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

declare that the MTTF value of the product

**PD86HAP12QPTF-01C**

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)  
MTTFd data of electrical components (typical and worst case)

SN 29500

at operative temperature of 40°C,

## MTTF Calculation

	<b>MTTF</b> [years]	<b>MTTF<sub>d</sub></b> [years]	<b>MTTF<sub>d</sub>* worst case</b> [years]
<i>Calculation Formula</i>	$\frac{1}{\sum_1^n \frac{1}{MTTF_n}}$	$MTTF \times 2$	$\frac{MTTF \times 2}{10}$
<i>Result</i>	<b>1214.7</b>	<b>2429.4</b>	<b>242.9</b>

\*with safety factor 10

### Manufacturer

Hadsten, January 23, 2025

Place/Date  
Signature

Name :

  
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



MS CERT  
ISO 9001 / ISO 14001

[www.ms certification.net](http://www.ms certification.net)