

# Declaration of Reliability

We manufacturer

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

declare that the  $MTTF_d$  (SRP/CS) value of the product

**MPF3-912RS**

is calculated according to:

EN ISO 13849-1:2015

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

SN 29500

at operative temperature of 40°C,

## MTTF Calculation

	$MTTF_d$	$MTTF_d$ * worst case	$PFH_d$
	[years]	[years]	[Failure per hour]
Calculation Formula	$\frac{1}{\sum_{i=1}^n \frac{1}{MTTF_{dn}}}$	$\frac{MTTF_d}{10}$	$\frac{1}{(MTTF_d \times h \times d)}$
Result	<b>1186.0</b>	<b>118.6</b>	<b><math>9.67 \times 10^{-7}</math></b>


\*with safety factor 10

## Manufacturer

Hadsten, April 04, 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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