



Issue No.: 20200227\_00

## **Declaration of Reliability**

We manufacturer

## CARLO GAVAZZI INDUSTRI A/S,

Over Hadstenvej 40, DK-8370 Hadsten, Denmark. Tel. +45 89606100 - Fax +45 89606222

declare that the MTTF value of the product(s)

## CA18EAxxxBPxxIO

(followed by suffixes)

is(are) 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**

	MTTF	MTTF <sub>d</sub>	MTTF <sub>d</sub> * 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	<i>57</i> 2,9	1145,8	114,6

\*with safety factor 10

Manufacturer

Place/date Hadsten, Feb 27st, 2020

Signature Name

ne Kent Sørensen (R&D Manager)

Notes:

This Manufacture's Declaration of Reliability is not to be intended as a product gurantee.

MS CERT
ISO 9001 / ISO 14001
www.mscertification.net