


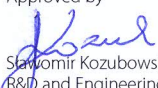
## MANUFACTURER DECLARATION

### Danfoss A/S

declares under our sole responsibility that BCP pressure controls may be used within the safety loop control according to thy below indicated characteristic values:

Type	BCP6H BCP7H	BCP1H BCP2H BCP3H BCP4H BCP5H	BCP2L BCP3L BCP4L BCP5L BCP6L
<b>Operation Mode</b>	<b>High pressure limiter</b>	<b>High pressure limiter</b>	<b>Low pressure limiter</b>
<b>Fail Safe Detected (<math>\lambda_{SD}</math>)</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Fail Safe Undetected (<math>\lambda_{SD}</math>) according to IEC 61508:2010</b>	<b>191</b>	<b>153</b>	<b>172</b>
<b>Fail Dangerous Detected (<math>\lambda_{DD}</math>)</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Fail Dangerous Undetected (<math>\lambda_{DU}</math>)</b>	<b>58</b>	<b>96</b>	<b>78</b>
<b>Total Failure Rate (<math>\lambda</math>) according to IEC 61508:2010 [FIT]</b>	<b>249</b>	<b>249</b>	<b>250</b>
<b>Safe Failure Fraction (SFF) according to IEC 61508:2010 [%]</b>	<b>76</b>	<b>61</b>	<b>68</b>
<b>SIL AC according to IEC 61508:2010</b>	<b>SIL 2</b>	<b>SIL 2</b>	<b>SIL 2</b>
<b>Safety metrics according to ISO 13849-1</b>			
<b>MTTFd [year]:</b>	<b>1955</b>	<b>1191</b>	<b>1471</b>
<b>DC [%]</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Category (CAT)</b>	<b>CAT 1</b>	<b>CAT 1</b>	<b>CAT 1</b>
<b>Performance Level required (PLr)</b>	<b>c</b>	<b>c</b>	<b>c</b>
<b>Performance Level calculated(PLc) [1/h]</b>	<b>8,54E-08</b>	<b>9,59E-08</b>	<b>7,76E-08</b>

On the basis of EXIDA report no.: 10/01-052 R002

Date 2013-05-16	Issued by  Piotr Chylaszek Engineering Manager	Date 2013-05-16	Approved by  Sławomir Kozubowski R&D and Engineering Manager
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