

Technical Publication

No.	RT-E79
Date	2002.4.15

Subject: Reliability prediction about micro programmable logic controller FC4A series

Testing Date	Temperature	Humidity	Approved	Checked	Inspected
2002.4.15	-	-	<i>K. Matsuura</i>	<i>N. Sasak</i>	N. KAKIKAWA

Calculating MTBF about following products, based on MIL-HDBK-217F.

Calculation conditions

- Environmental condition Ground-Fix
- Ambient temperature 20

type	FR/MTBF	Ta=20
FC4A-D20RK1	FR	21.953 FR/10 ⁶ h
	MTBF	45,552 h (5.2 year)
FC4A-D20RS1	FR	21.963 FR/10 ⁶ h
	MTBF	45,531 h (5.2 year)
FC4A-D20K3	FR	19.434 FR/10 ⁶ h
	MTBF	51,456 h (5.9 year)
FC4A-D20S3	FR	19.636 FR/10 ⁶ h
	MTBF	50,927 h (5.8 year)
FC4A-D40K3	FR	23.521 FR/10 ⁶ h
	MTBF	42,513 h (4.9 year)
FC4A-D40S3	FR	23.143 FR/10 ⁶ h
	MTBF	43,210 h (4.9 year)
FC4A-C10R2	FR	19.295 FR/10 ⁶ h
	MTBF	51,827 h (5.9 year)
FC4A-C16R2	FR	20.149 FR/10 ⁶ h
	MTBF	49,630 h (5.7 year)
FC4A-C24R2	FR	21.955 FR/10 ⁶ h
	MTBF	45,548 h (5.2 year)

*1:MTBF(Mean Time Between Failure)

*2:FR(Failure Rate)