

Errata


Listed below are corrections and addition for the U1000 Technical Manuals.
Please replace the applicable parts in the manual with the following information.

Applicable Documentation

Manual No.	Chapter	Product
SIEPC71063604E, SIEPC71063612E	D.5	U1000

Correction

Replace the technical manual description in **◆Safety Standards** as shown in following table.

Current		After update
The TUV mark indicates compliance with safety standards.	⇒	None
 Figure TUV mark	⇒	None

Replace Table D.12 in **D.5 Safe Disable Input Function** as shown in following table.

Table Safety Standards and Applicable Harmonized Standards

Safety Standards	Applicable Harmonized Standards
Functional Safety	IEC/EN 61508-1,2(SIL3) IEC/EN IEC62061(SIL3) IEC/EN 61800-5-2(SIL3)
Safety of Machinery	ISO/EN ISO 13849-1:2015 (Cat.3, PL e)
EMC	IEC/EN 61000-6-7 EN 61800-3 IEC/EN 61326-3-1
LVD	IEC/EN 61800-5-1

Replace **Table D.13** in **D.5 Safe Disable Input Function** as shown in following table.

Item	Description
Input/Output	<ul style="list-style-type: none"> Input signal specifications Signal ON level: 18 to 28 Vdc Signal OFF level: -4 to 4 Vdc Inputs: 2 Safe Disable inputs H1, H2 Outputs: 1 Safe Disable Monitor output EDM (DM+, DM-)
Response time from when the input opens to when the drive output stops	3 ms or less
Response time from when the H1 and H2 terminal inputs open to when the EDM	4 ms or less
Mission time*	10 years 20 years
Failure probability	<div>Less frequent operation request mode</div> <div>Frequent operation request mode or continuous mode</div>
	<div>PFD = 1.10E-5 PFD = 2.19E-5</div> <div>PFH = 1.34E-9 PFH = 1.34E-9</div>
Performance level	e
HFT (hardware fault tolerance)	N=1
Type of subsystem	Type B
MTTFD	High(2141years)
DCavg	Medium(90.74%)

Note:

EDM = External Device Monitoring

PFD = Probability of Failure on Demand

PFH = Probability of Dangerous Failure per Hour

*Parameter used for the statistical calculation required by functional safety standards and this is not linked to the warranty / guarantee period.

Add following description in **■Validating the Safe Disable Function**.

* This validation should be performed at least once every three months to guarantee the specification values of the safety parameters.

Add it to **■Safe Disable Circuit** as shown in the table below.

Current		After update
None	⇒	Note: Safe Disable input wiring should not exceed 30m.