Errata

Listed below are corrections and addition for the L1000A Technical Manual.

Please replace the applicable parts in the manual with the following information.

Applicable Documentation

Manual No.	Page	Chapter
SIEP C710616 32I	462	D.2
	486	D.6
SIEP C710616 33H	438	D.4
SIEP C710616 38F	493	D.4

Correction

Replace the techinical 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 the technical manual description as shown in following table.

Current		After update	Chapter
IEC/EN 61800-5-1:2007	⇒	IEC/EN 61800-5-1	D.2
EN 61800-3:2004/A1:2012			D.6
EN 61800-3:2004	⇒	EN IEC 61800-3	D.2
IEC 61800-3:2004/A1:2011	⇒	IEC 61800-3	D.2
			D.6
IEC/EN 61508 series (SIL2)	⇒	IEC/EN 61508 series	D.6
ISO/EN ISO 13849-1/AC: 2009	⇒	ISO/EN ISO 13849-1/AC: 2015	D.2
ISO/EN ISO 13849-1/AC: 2009 (PL d (Cat.3))	⇒	ISO/EN ISO 13849-1/AC: 2015 (PL d (Cat.3))	D.6
ISO/EN 13849-1	⇒	ISO/EN ISO 13849-1: 2015	D.6

Replace the tables in ■ Standard Models (CIMR-L☐☐A☐) with the followingtables.

■ Standard Models (CIMR-L☐☐A☐)

Table Safety Standards and Applicable Harmonizede Standards for CIMR-L☐☐A☐

Safety Standards	Applicable Harmonized Standards
Functional Safety	IEC/EN 61508-1,2,4 (SIL2)
	IEC/EN IEC 62061 (SIL2)
	IEC/EN 61800-5-2 (SIL2)
Safety of Machinery	ISO/EN ISO 13849-1:2015 (Cat.3, PL d)
EMC	IEC/EN IEC 61800-3
	IEC/EN 61326-3-1
	IEC/EN 61000-6-7
LVD	IEC/EN 61800-5-1

Replace the tables in Models in Compliance with IEC/EN 61508 SIL3 (CIMR-L☐☐F☐) with the following tables.

■ Models in Compliance with IEC/EN 61508 SIL3 (CIMR-L☐☐F☐)

Table Safety Standards and Applicable Harmonized Standards for CIMR-L☐☐F☐

Safety Standards	Applicable Harmonized Standards
Functional Safety	IEC/EN 61508-1,2(SIL3)
	IEC/EN IEC 62061 (SIL3)
	IEC/EN 61800-5-2 (SIL3)
Safety of Machinery	ISO/EN ISO 13849-1:2015 (Cat.3, PL e)
EMC	IEC/EN IEC 61800-3
	IEC/EN 61326-3-1
	IEC/EN 61000-6-7
LVD	IEC/EN 61800-5-1

Replace the table in the ◆Precautions as shown in following table.

Current		After update
DANGER! All safety features (including Safe Disable) should be inspected daily and periodically. If the system is not operating normally, there is a risk of serious personal injury.	⇒	**DANGER!** All safety features (including Safe Disable) should be inspected daily and periodically.Inspections are required at least once a year (CIMR-L☐☐A☐) or every 3 month(CIMR-L☐☐F☐) to ensure safety parameter specifications If the system is not operating normally, there is a risk of serious personal injury.

Replace the table in the ◆Specifications as shown in following table.

Item	Description		
	CIMR-L☐☐A	CIMR-L☐☐F	
Input/Output	• Input: 2 Safe Disable input (H1, H2) Signal ON level: 18 Vdc to 28 Vdc Signal OFF level: -4 Vdc to +4 Vdc • Output: 1 MFDO safety monitor output EDM(DM+,DM-)		
Response time from when the input opens to when the drive output stops	1 ms or less	3 ms or less	
Response time from when the H1 and H2 terminal inputs open to when the EDM	1 ms or less	4 ms or less	
Mission time*	10 years	10 years	20 years
Failure probability — PFD	5.15E-05	8.14E-06	1.62E-05
Failure probability — PFH	1.20E-09	9.81E-10	9.84E-10
MTTFD	High	High(2920years)	
DCavg	Low	Medium(90.68%)	
Performance level	d	e	
HFT (hardware fault tolerance)	N=1		
Type of subsystem	Type B		

Add the following table to Table Specifications for Safe Disable Function in ◆ Specifications.

Note:

EDM = External Device Monitoring(The Safe Disable Monitor (output terminals DM+ and DM-))

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.

Addition

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.