SIEMENS

Manufacturer's Declaration

Nr. / No. SINAMICS_G120C_668.DCO.BC.2303.40.055

Manufacturer:	SIEMENS Aktiengesellschaft
Address:	SIEMENS Aktiengesellschaft; DI MC Frauenauracher Straße 80 D-91056 Erlangen Germany
Product description:	**SINAMICS G120C** (for included hardware and software releases see annex)

The functional safety function STO of the above mentioned product fulfils the requirements of SIL 2 according to [1] and [4], PL d according to [2] and category 3 according to [2]. The function STO corresponds to stop category 0 according to [3].

Reference number

[1]	IEC 61508, part 1 to 3 (2010)
[2]	ISO13849 part 1 (2015)
[3]	IEC 60204 (2005)
[4]	IEC 61800-5-2 (2016)

Erlangen, 23-03-29

X

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1 Software

1.1 SINAMICS G120C

G120C 6SL3210-1KEx-xxx0	**G120C-2** 6SL3210-1KEx-xxx1	**G120C-2** 6SL3210-1KEx-xxx2	**Safety-Firmware-Version (Basic)**
V 4.4 HF2 V 4.4 HF13	---	---	04.40.23.03
---	V 4.5 V 4.5 HF2	---	04.50.30.00
---	V 4.5 HF5 V 4.5 HF15	---	04.50.30.05
---	V 4.6 V 4.6 HF1	---	04.60.19.00
---	V 4.6 HF3 V 4.6 HF4 V 4.6 HF6 V 4.6 HF7 V 4.6 HF11 V 4.6 HF17 V 4.6 HF22	---	04.60.21.06
---	V 4.7 HF3	---	04.70.35.07
---	V 4.7 HF8 V 4.7 HF10	---	04.70.35.18
---	V 4.7 SP3 V 4.7 SP3 HF1 V 4.7 SP3 HF2 V 4.7 SP3 HF3 V 4.7 SP3 HF4 V 4.7 SP3 HF6 V 4.7 SP6 HF1 V 4.7 SP6 HF2 V 4.7 SP6 HF3 V 4.7 SP6 HF4 V 4.7 SP6 HF5	V 4.7 SP3 V 4.7 SP3 HF1 V 4.7 SP3 HF2 V 4.7 SP3 HF3 V 4.7 SP3 HF4 V 4.7 SP3 HF6 V 4.7 SP6 HF1 V 4.7 SP6 HF2 V 4.7 SP6 HF3 V 4.7 SP6 HF4 V 4.7 SP6 HF5	04.70.53.00
---	V 4.7 SP9 V 4.7 SP9 HF1 V4.7 SP10 V 4.7 SP10 HF1 V 4.7 SP10 HF2 V 4.7 SP10 HF3 V 4.7 SP10 HF4 V 4.7 SP10 HF6 V 4.7 SP10 HF7	V 4.7 SP9 V 4.7 SP9 HF1 V 4.7 SP10 V 4.7 SP10 HF1 V 4.7 SP10 HF2 V 4.7 SP10 HF3 V 4.7 SP10 HF4 V 4.7 SP10 HF6 V 4.7 SP10 HF7	04.71.02.00
---	V 4.7 SP13 V 4.7 SP13 HF2 V4.7 SP13 HF4	V 4.7 SP13 V4.7 SP13 HF2 V4.7 SP13 HF4	04.71.39.00
---	V4.7 SP14	V4.7 SP14	04.71.60.00

2 Hardware

2.1 SINAMICS G120C

Description	Order Purchase No. (MLFB)	Hardware Version
CAN		
G120C CAN (3AC, 400V, AF, 0.55kW)	6SL3210-1KE11-8AC0	A02
G120C CAN (3AC, 400V, AF, 0.75kW)	6SL3210-1KE12-3AC0	A02
G120C CAN (3AC, 400V, AF, 1.10kW)	6SL3210-1KE13-2AC0	A02
G120C CAN (3AC, 400V, AF, 1.50kW)	6SL3210-1KE14-3AC0	A02
G120C CAN (3AC, 400V, AF, 2.20kW)	6SL3210-1KE15-8AC0	A02
G120C CAN (3AC, 400V, AF, 3.00kW)	6SL3210-1KE17-5AC0	A02
G120C CAN (3AC, 400V, AF, 4.00kW)	6SL3210-1KE18-8AC0	A02
G120C CAN (3AC, 400V, AF, 5.50kW)	6SL3210-1KE21-3AC0	A02
G120C CAN (3AC, 400V, AF, 7.50kW)	6SL3210-1KE21-7AC0	A02
G120C CAN (3AC, 400V, AF, 11.0kW)	6SL3210-1KE22-6AC0	A02
G120C CAN (3AC, 400V, AF, 15.0kW)	6SL3210-1KE23-2AC0	A02
G120C CAN (3AC, 400V, AF, 18.5kW)	6SL3210-1KE23-8AC0	A02
G120C CAN (3AC, 400V, UF, 0.55kW)	6SL3210-1KE11-8UC0	A02
G120C CAN (3AC, 400V, UF, 0.75kW)	6SL3210-1KE12-3UC0	A02
G120C CAN (3AC, 400V, UF, 1.10kW)	6SL3210-1KE13-2UC0	A02
G120C CAN (3AC, 400V, UF, 1.50kW)	6SL3210-1KE14-3UC0	A02
G120C CAN (3AC, 400V, UF, 2.20kW)	6SL3210-1KE15-8UC0	A02
G120C CAN (3AC, 400V, UF, 3.00kW)	6SL3210-1KE17-5UC0	A02
G120C CAN (3AC, 400V, UF, 4.00kW)	6SL3210-1KE18-8UC0	A02
G120C CAN (3AC, 400V, UF, 5.50kW)	6SL3210-1KE21-3UC0	A02
G120C CAN (3AC, 400V, UF, 7.50kW)	6SL3210-1KE21-7UC0	A02
G120C CAN (3AC, 400V, UF, 11.0kW)	6SL3210-1KE22-6UC0	A02
G120C CAN (3AC, 400V, UF, 15.0kW)	6SL3210-1KE23-2UC0	A02
G120C CAN (3AC, 400V, UF, 18.5kW)	6SL3210-1KE23-8UC0	A02
DP		
G120C DP (3AC, 400V, AF, 0.55kW)	6SL3210-1KE11-8AP0	A02
G120C DP (3AC, 400V, AF, 0.75kW)	6SL3210-1KE12-3AP0	A02
G120C DP (3AC, 400V, AF, 1.10kW)	6SL3210-1KE13-2AP0	A02
G120C DP (3AC, 400V, AF, 1.50kW)	6SL3210-1KE14-3AP0	A02
G120C DP (3AC, 400V, AF, 2.20kW)	6SL3210-1KE15-8AP0	A02
G120C DP (3AC, 400V, AF, 3.00kW)	6SL3210-1KE17-5AP0	A02
G120C DP (3AC, 400V, AF, 4.00kW)	6SL3210-1KE18-8AP0	A02
G120C DP (3AC, 400V, AF, 5.50kW)	6SL3210-1KE21-3AP0	A02
G120C DP (3AC, 400V, AF, 7.50kW)	6SL3210-1KE21-7AP0	A02

G120C DP (3AC, 400V, AF, 11.0kW)	6SL3210-1KE22-6AP0	A02
G120C DP (3AC, 400V, AF, 15.0kW)	6SL3210-1KE23-2AP0	A02
G120C DP (3AC, 400V, AF, 18.5kW)	6SL3210-1KE23-8AP0	A02
G120C DP (3AC, 400V, UF, 0.55kW)	6SL3210-1KE11-8UP0	A02
G120C DP (3AC, 400V, UF, 0.75kW)	6SL3210-1KE12-3UP0	A02
G120C DP (3AC, 400V, UF, 1.10kW)	6SL3210-1KE13-2UP0	A02
G120C DP (3AC, 400V, UF, 1.50kW)	6SL3210-1KE14-3UP0	A02
G120C DP (3AC, 400V, UF, 2.20kW)	6SL3210-1KE15-8UP0	A02
G120C DP (3AC, 400V, UF, 3.00kW)	6SL3210-1KE17-5UP0	A02
G120C DP (3AC, 400V, UF, 4.00kW)	6SL3210-1KE18-8UP0	A02
G120C DP (3AC, 400V, UF, 5.50kW)	6SL3210-1KE21-3UP0	A02
G120C DP (3AC, 400V, UF, 7.50kW)	6SL3210-1KE21-7UP0	A02
G120C DP (3AC, 400V, UF, 11.0kW)	6SL3210-1KE22-6UP0	A02
G120C DP (3AC, 400V, UF, 15.0kW)	6SL3210-1KE23-2UP0	A02
G120C DP (3AC, 400V, UF, 18.5kW)	6SL3210-1KE23-8UP0	A02
USS		
G120C USS (3AC, 400V, AF, 0.55kW)	6SL3210-1KE11-8AB0	A02, A03
G120C USS (3AC, 400V, AF, 0.75kW)	6SL3210-1KE12-3AB0	A02, A03
G120C USS (3AC, 400V, AF, 1.10kW)	6SL3210-1KE13-2AB0	A02, A03
G120C USS (3AC, 400V, AF, 1.50kW)	6SL3210-1KE14-3AB0	A02, A03
G120C USS (3AC, 400V, AF, 2.20kW)	6SL3210-1KE15-8AB0	A02, A03
G120C USS (3AC, 400V, AF, 3.00kW)	6SL3210-1KE17-5AB0	A02, A03
G120C USS (3AC, 400V, AF, 4.00kW)	6SL3210-1KE18-8AB0	A02, A03
G120C USS (3AC, 400V, AF, 5.50kW)	6SL3210-1KE21-3AB0	A02, A03
G120C USS (3AC, 400V, AF, 7.50kW)	6SL3210-1KE21-7AB0	A02, A03
G120C USS (3AC, 400V, AF, 11.0kW)	6SL3210-1KE22-6AB0	A02, A03
G120C USS (3AC, 400V, AF, 15.0kW)	6SL3210-1KE23-2AB0	A02, A03
G120C USS (3AC, 400V, AF, 18.5kW)	6SL3210-1KE23-8AB0	A02, A03
G120C USS (3AC, 400V, UF, 0.55kW)	6SL3210-1KE11-8UB0	A02, A03
G120C USS (3AC, 400V, UF, 0.75kW)	6SL3210-1KE12-3UB0	A02, A03
G120C USS (3AC, 400V, UF, 1.10kW)	6SL3210-1KE13-2UB0	A02, A03
G120C USS (3AC, 400V, UF, 1.50kW)	6SL3210-1KE14-3UB0	A02, A03
G120C USS (3AC, 400V, UF, 2.20kW)	6SL3210-1KE15-8UB0	A02, A03
G120C USS (3AC, 400V, UF, 3.00kW)	6SL3210-1KE17-5UB0	A02, A03
G120C USS (3AC, 400V, UF, 4.00kW)	6SL3210-1KE18-8UB0	A02, A03
G120C USS (3AC, 400V, UF, 5.50kW)	6SL3210-1KE21-3UB0	A02, A03, A07
G120C USS (3AC, 400V, UF, 7.50kW)	6SL3210-1KE21-7UB0	A02, A03, A07
G120C USS (3AC, 400V, UF, 11.0kW)	6SL3210-1KE22-6UB0	A02, A03
G120C USS (3AC, 400V, UF, 15.0kW)	6SL3210-1KE23-2UB0	A02, A03

G120C USS (3AC, 400V, UF, 18.5kW)	6SL3210-1KE23-8UB0	A02, A03
FSD-F PN 400V		
G120C 400V FSD PN 22kW FILA	6SL3210-1KE24-4AF1	01, 02, 03, 04, 05, 06, 07
G120C 400V FSD PN 22kW UFIL	6SL3210-1KE24-4UF1	01, 02, 03, 04, 05, 06, 07
G120C 400V FSD PN 30kW FILA	6SL3210-1KE26-0AF1	01, 02, 03, 04, 05, 06, 07
G120C 400V FSD PN 30kW UFIL	6SL3210-1KE26-0UF1	01, 02, 03, 04, 05, 06, 07
G120C 400V FSD PN 37kW FILA	6SL3210-1KE27-0AF1	01, 02, 03, 04, 05, 06, 07
G120C 400V FSD PN 37kW UFIL	6SL3210-1KE27-0UF1	01, 02, 03, 04, 05, 06, 07
G120C 400V FSD PN 45kW FILA	6SL3210-1KE28-4AF1	01, 02, 03, 04, 05, 06, 07
G120C 400V FSD PN 45kW UFIL	6SL3210-1KE28-4UF1	01, 02, 03, 04, 05, 06, 07
G120C 400V FSE PN 55kW FILA	6SL3210-1KE31-1AF1	01, 02, 03, 04, 05
G120C 400V FSE PN 55kW UFIL	6SL3210-1KE31-1UF1	01, 02, 03, 04, 05
G120C 400V FSF PN 75kW FILA	6SL3210-1KE31-4AF1	01, 02, 03
G120C 400V FSF PN 75kW UFIL	6SL3210-1KE31-4UF1	01, 02, 03
G120C 400V FSF PN 90kW FILA	6SL3210-1KE31-7AF1	01, 02, 03
G120C 400V FSF PN 90kW UFIL	6SL3210-1KE31-7UF1	01, 02, 03
G120C PN FSF 400V 110kW FILA	6SL3210-1KE32-1AF1	01, 02, 03
G120C PN FSF 400V 110kW UFIL	6SL3210-1KE32-1UF1	01, 02, 03,
G120C PN FSF 400V 132kW FILA	6SL3210-1KE32-4AF1	01, 02, 03
G120C PN FSF 400V 132kW UFIL	6SL3210-1KE32-4UF1	01, 02, 03,
FSD-F USS 400V		
G120C FSD (3AC, 400V, AF, 22kW), USS	6SL3210-1KE24-4AB1	01, 02, 03, 04, 05, 06
G120C FSD (3AC, 400V, UF, 22kW), USS	6SL3210-1KE24-4UB1	01, 02, 03, 04, 05, 06
G120C FSD (3AC, 400V, AF, 30kW), USS	6SL3210-1KE26-0AB1	01, 02, 03, 04, 05, 06
G120C FSD (3AC, 400V, UF, 30kW), USS	6SL3210-1KE26-0UB1	01, 02, 03, 04, 05, 06
G120C FSD (3AC, 400V, AF, 37kW), USS	6SL3210-1KE27-0AB1	01, 02, 03, 04, 05, 06
G120C FSD (3AC, 400V, UF, 37kW), USS	6SL3210-1KE27-0UB1	01, 02, 03, 04, 05, 06
G120C FSD (3AC, 400V, AF, 45kW), USS	6SL3210-1KE28-4AB1	01, 02, 03, 04, 05, 06
G120C FSD (3AC, 400V, UF, 45kW), USS	6SL3210-1KE28-4UB1	01, 02, 03, 04, 05, 06
G120C FSE (3AC, 400V, AF, 55kW), USS	6SL3210-1KE31-1AB1	01, 02, 03, 04, 05
G120C FSE (3AC, 400V, UF, 55kW), USS	6SL3210-1KE31-1UB1	01, 02, 03, 04, 05
G120C FSF (3AC, 400V, AF, 75kW), USS	6SL3210-1KE31-4AB1	01, 02, 03
G120C FSF (3AC, 400V, UF, 75kW), USS	6SL3210-1KE31-4UB1	01, 02, 03
G120C FSF (3AC, 400V, AF, 90kW), USS	6SL3210-1KE31-7AB1	01, 02, 03
G120C FSF (3AC, 400V, UF, 90kW), USS	6SL3210-1KE31-7UB1	01, 02, 03
G120C FSF (3AC, 400V, AF, 110kW), USS	6SL3210-1KE32-1AB1	01, 02, 03
G120C FSF (3AC, 400V, UF, 110kW), USS	6SL3210-1KE32-1UB1	01, 02, 03,
G120C FSF (3AC, 400V, AF, 132kW), USS	6SL3210-1KE32-4AB1	01, 02, 03
G120C FSF (3AC, 400V, UF, 132kW), USS	6SL3210-1KE32-4UB1	01, 02, 03,

2.2 SINAMICS G120C-2

Description	Order Purchase No. (MLFB)	Hardware Version
CAN – FSA / FSB / FSC		
G120C-2 CAN FSA (3AC, 400V, AF, 0.55kW)	6SL3210-1KE11-8AC1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03
G120C-2 CAN FSA (3AC, 400V, AF, 0.75kW)	6SL3210-1KE12-3AC1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03
G120C-2 CAN FSA (3AC, 400V, AF, 1.10kW)	6SL3210-1KE13-2AC1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03
G120C-2 CAN FSA (3AC, 400V, AF, 1.50kW)	6SL3210-1KE14-3AC1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03
G120C-2 CAN FSA (3AC, 400V, AF, 2.20kW)	6SL3210-1KE15-8AC1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03
G120C-2 CAN FSA (3AC, 400V, AF, 3.00kW)	6SL3210-1KE17-5AC1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03
G120C-2 CAN FSA (3AC, 400V, AF, 4.00kW)	6SL3210-1KE18-8AC1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03
G120C-2 CAN FSB (3AC, 400V, AF, 5.50kW)	6SL3210-1KE21-3AC1	A02, A03, A04, A05, A06, A07, B01, B02, B03, B04
G120C-2 CAN FSB (3AC, 400V, AF, 7.50kW)	6SL3210-1KE21-7AC1	A02, A03, A04, A05, A06, A07, B01, B02, B03, B04
G120C-2 CAN FSC (3AC, 400V, AF, 11.0kW)	6SL3210-1KE22-6AC1	A02, A03, A04, A05, A06, A07, B01, B02, B03, B04
G120C-2 CAN FSC (3AC, 400V, AF, 15.0kW)	6SL3210-1KE23-2AC1	A02, A03, A04, A05, A06, A07, B01, B02, B03, B04
G120C-2 CAN FSC (3AC, 400V, AF, 18.5kW)	6SL3210-1KE23-8AC1	A02, A03, A04, A05, A06, A07, B01, B02, B03, B04
G120C-2 CAN FSA (3AC, 400V, UF, 0.55kW)	6SL3210-1KE11-8UC1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03
G120C-2 CAN FSA (3AC, 400V, UF, 0.75kW)	6SL3210-1KE12-3UC1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03
G120C-2 CAN FSA (3AC, 400V, UF, 1.10kW)	6SL3210-1KE13-2UC1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03
G120C-2 CAN FSA (3AC, 400V, UF, 1.50kW)	6SL3210-1KE14-3UC1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03
G120C-2 CAN FSA (3AC, 400V, UF, 2.20kW)	6SL3210-1KE15-8UC1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03
G120C-2 CAN FSA (3AC, 400V, UF, 3.00kW)	6SL3210-1KE17-5UC1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03
G120C-2 CAN FSA (3AC, 400V, UF, 4.00kW)	6SL3210-1KE18-8UC1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03
G120C-2 CAN FSB (3AC, 400V, UF, 5.50kW)	6SL3210-1KE21-3UC1	A02, A03, A04, A05, A06, A07, B01, B02, B03, B04
G120C-2 CAN FSB (3AC, 400V, UF, 7.50kW)	6SL3210-1KE21-7UC1	A02, A03, A04, A05, A06, A07, B01, B02, B03, B04
G120C-2 CAN FSC (3AC, 400V, UF, 11.0kW)	6SL3210-1KE22-6UC1	A02, A03, A04, A05, A06, A07, B01, B02, B03, B04
G120C-2 CAN FSC (3AC, 400V, UF, 15.0kW)	6SL3210-1KE23-2UC1	A02, A03, A04, A05, A06, A07, B01, B02, B03, B04

G120C-2 CAN FSC (3AC, 400V, UF, 18.5kW)	6SL3210-1KE23-8UC1	A02, A03, A04, A05, A06, A07, B01, B02, B03, B04
DP – FSA / FSB / FSC		
G120C-2 DP FSA (3AC, 400V, AF, 0.55kW)	6SL3210-1KE11-8AP1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03
G120C-2 DP FSA (3AC, 400V, AF, 0.75kW)	6SL3210-1KE12-3AP1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03
G120C-2 DP FSA (3AC, 400V, AF, 1.10kW)	6SL3210-1KE13-2AP1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03
G120C-2 DP FSA (3AC, 400V, AF, 1.50kW)	6SL3210-1KE14-3AP1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03
G120C-2 DP FSA (3AC, 400V, AF, 2.20kW)	6SL3210-1KE15-8AP1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03
G120C-2 DP FSA (3AC, 400V, AF, 3.00kW)	6SL3210-1KE17-5AP1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03
G120C-2 DP FSA (3AC, 400V, AF, 4.00kW)	6SL3210-1KE18-8AP1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03
G120C-2 DP FSB (3AC, 400V, AF, 5.50kW)	6SL3210-1KE21-3AP1	A02, A03, A04, A05, A06, A07, B01, B02, B03, B04
G120C-2 DP FSB (3AC, 400V, AF, 7.50kW)	6SL3210-1KE21-7AP1	A02, A03, A04, A05, A06, A07, B01, B02, B03, B04
G120C-2 DP FSC (3AC, 400V, AF, 11.0kW)	6SL3210-1KE22-6AP1	A02, A03, A04, A05, A06, A07, B01, B02, B03, B04
G120C-2 DP FSC (3AC, 400V, AF, 15.0kW)	6SL3210-1KE23-2AP1	A02, A03, A04, A05, A06, A07, B01, B02, B03, B04
G120C-2 DP FSC (3AC, 400V, AF, 18.5kW)	6SL3210-1KE23-8AP1	A02, A03, A04, A05, A06, A07, B01, B02, B03, B04
G120C-2 DP FSA (3AC, 400V, UF, 0.55kW)	6SL3210-1KE11-8UP1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03
G120C-2 DP FSA (3AC, 400V, UF, 0.75kW)	6SL3210-1KE12-3UP1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03
G120C-2 DP FSA (3AC, 400V, UF, 1.10kW)	6SL3210-1KE13-2UP1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03
G120C-2 DP FSA (3AC, 400V, UF, 1.50kW)	6SL3210-1KE14-3UP1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03
G120C-2 DP FSA (3AC, 400V, UF, 2.20kW)	6SL3210-1KE15-8UP1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03
G120C-2 DP FSA (3AC, 400V, UF, 3.00kW)	6SL3210-1KE17-5UP1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03
G120C-2 DP FSA (3AC, 400V, UF, 4.00kW)	6SL3210-1KE18-8UP1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03
G120C-2 DP FSB (3AC, 400V, UF, 5.50kW)	6SL3210-1KE21-3UP1	A02, A03, A04, A05, A06, A07, B01, B02, B03, B04
G120C-2 DP FSB (3AC, 400V, UF, 7.50kW)	6SL3210-1KE21-7UP1	A02, A03, A04, A05, A06, A07, B01, B02, B03, B04
G120C-2 DP FSC (3AC, 400V, UF, 11.0kW)	6SL3210-1KE22-6UP1	A02, A03, A04, A05, A06, A07, B01, B02, B03, B04
G120C-2 DP FSC (3AC, 400V, UF, 15.0kW)	6SL3210-1KE23-2UP1	A02, A03, A04, A05, A06, A07, B01, B02, B03, B04
G120C-2 DP FSC (3AC, 400V, UF, 18.5kW)	6SL3210-1KE23-8UP1	A02, A03, A04, A05, A06, A07, B01, B02, B03, B04
PN – FSA / FSB / FSC		

G120C-2 PN FSA (3AC, 400V, AF, 0.55kW)	6SL3210-1KE11-8AF1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03, C04
G120C-2 PN FSA (3AC, 400V, AF, 0.75kW)	6SL3210-1KE12-3AF1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03, C04
G120C-2 PN FSA (3AC, 400V, AF, 1.10kW)	6SL3210-1KE13-2AF1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03, C04
G120C-2 PN FSA (3AC, 400V, AF, 1.50kW)	6SL3210-1KE14-3AF1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03, C04
G120C-2 PN FSA (3AC, 400V, AF, 1.50kW) EXTENDED	6SL3210-1KE14-3EF1	01, 02
G120C-2 PN FSA (3AC, 400V, AF, 2.20kW)	6SL3210-1KE15-8AF1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03, C04
G120C-2 PN FSA (3AC, 400V, AF, 3.00kW)	6SL3210-1KE17-5AF1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03, C04
G120C-2 PN FSA (3AC, 400V, AF, 3.00kW) EXTENDED	6SL3210-1KE17-5EF1	01, 02, 03
G120C-2 PN FSA (3AC, 400V, AF, 4.00kW)	6SL3210-1KE18-8AF1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03, C04
G120C-2 PN FSB (3AC, 400V, AF, 5.50kW)	6SL3210-1KE21-3AF1	A02, A03, A04, A05, A06, A07, B01, B02, B03, B04, B05
G120C-2 PN FSB (3AC, 400V, AF, 7.50kW)	6SL3210-1KE21-7AF1	A02, A03, A04, A05, A06, A07, B01, B02, B03, B04, B05
G120C-2 PN FSC (3AC, 400V, AF, 11.0kW)	6SL3210-1KE22-6AF1	A02, A03, A04, A05, A06, A07, B01, B02, B03, B04, B05
G120C-2 PN FSC (3AC, 400V, AF, 15.0kW)	6SL3210-1KE23-2AF1	A02, A03, A04, A05, A06, A07, B01, B02, B03, B04, B05
G120C-2 PN FSC (3AC, 400V, AF, 18.5kW)	6SL3210-1KE23-8AF1	A02, A03, A04, A05, A06, A07, B01, B02, B03, B04, B05
G120C-2 PN FSA (3AC, 400V, UF, 0.55kW)	6SL3210-1KE11-8UF1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03, C04
G120C-2 PN FSA (3AC, 400V, UF, 0.75kW)	6SL3210-1KE12-3UF1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03, C04
G120C-2 PN FSA (3AC, 400V, UF, 1.10kW)	6SL3210-1KE13-2UF1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03, C04
G120C-2 PN FSA (3AC, 400V, UF, 1.50kW)	6SL3210-1KE14-3UF1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03, C04
G120C-2 PN FSA (3AC, 400V, UF, 2.20kW)	6SL3210-1KE15-8UF1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03, C04
G120C-2 PN FSA (3AC, 400V, UF, 3.00kW)	6SL3210-1KE17-5UF1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03, C04
G120C-2 PN FSA (3AC, 400V, UF, 4.00kW)	6SL3210-1KE18-8UF1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03, C04
G120C-2 PN FSB (3AC, 400V, UF, 5.50kW)	6SL3210-1KE21-3UF1	A02, A03, A04, A05, A06, A07, B01, B02, B03, B04, B05
G120C-2 PN FSB (3AC, 400V, UF, 7.50kW)	6SL3210-1KE21-7UF1	A02, A03, A04, A05, A06, A07, B01, B02, B03, B04, B05
G120C-2 PN FSC (3AC, 400V, UF, 11.0kW)	6SL3210-1KE22-6UF1	A02, A03, A04, A05, A06, A07, B01, B02, B03, B04, B05
G120C-2 PN FSC (3AC, 400V, UF, 15.0kW)	6SL3210-1KE23-2UF1	A02, A03, A04, A05, A06, A07, B01, B02, B03, B04, B05
G120C-2 PN FSC (3AC, 400V, UF, 18.5kW)	6SL3210-1KE23-8UF1	A02, A03, A04, A05, A06, A07, B01, B02, B03, B04, B05
USS – FSA / FSB / FSC		

G120C-2 USS FSA (3AC, 400V, AF, 0.55kW)	6SL3210-1KE11-8AB1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03
G120C-2 USS FSA (3AC, 400V, AF, 0.75kW)	6SL3210-1KE12-3AB1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03
G120C-2 USS FSA (3AC, 400V, AF, 1.10kW)	6SL3210-1KE13-2AB1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03
G120C-2 USS FSA (3AC, 400V, AF, 1.50kW)	6SL3210-1KE14-3AB1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03
G120C-2 USS FSA (3AC, 400V, AF, 2.20kW)	6SL3210-1KE15-8AB1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03
G120C-2 USS FSA (3AC, 400V, AF, 3.00kW)	6SL3210-1KE17-5AB1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03
G120C-2 USS FSA (3AC, 400V, AF, 4.00kW)	6SL3210-1KE18-8AB1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03
G120C-2 USS FSB (3AC, 400V, AF, 5.50kW)	6SL3210-1KE21-3AB1	A02, A03, A04, A05, A06, A07, B01, B02, B03, B04
G120C-2 USS FSB (3AC, 400V, AF, 7.50kW)	6SL3210-1KE21-7AB1	A02, A03, A04, A05, A06, A07, B01, B02, B03, B04
G120C-2 USS FSC (3AC, 400V, AF, 11.0kW)	6SL3210-1KE22-6AB1	A02, A03, A04, A05, A06, A07, B01, B02, B03, B04
G120C-2 USS FSC (3AC, 400V, AF, 15.0kW)	6SL3210-1KE23-2AB1	A02, A03, A04, A05, A06, A07, B01, B02, B03, B04
G120C-2 USS FSC (3AC, 400V, AF, 18.5kW)	6SL3210-1KE23-8AB1	A02, A03, A04, A05, A06, A07, B01, B02, B03, B04
G120C-2 USS FSA (3AC, 400V, UF, 0.55kW)	6SL3210-1KE11-8UB1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03
G120C-2 USS FSA (3AC, 400V, UF, 0.75kW)	6SL3210-1KE12-3UB1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03
G120C-2 USS FSA (3AC, 400V, UF, 1.10kW)	6SL3210-1KE13-2UB1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03
G120C-2 USS FSA (3AC, 400V, UF, 1.50kW)	6SL3210-1KE14-3UB1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03
G120C-2 USS FSA (3AC, 400V, UF, 2.20kW)	6SL3210-1KE15-8UB1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03
G120C-2 USS FSA (3AC, 400V, UF, 3.00kW)	6SL3210-1KE17-5UB1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03
G120C-2 USS FSA (3AC, 400V, UF, 4.00kW)	6SL3210-1KE18-8UB1	A02, A03, A04, A05, A06, A07, B01, C01, C02, C03
G120C-2 USS FSB (3AC, 400V, UF, 5.50kW)	6SL3210-1KE21-3UB1	A02, A03, A04, A05, A06, A07, B01, B02, B03, B04
G120C-2 USS FSB (3AC, 400V, UF, 7.50kW)	6SL3210-1KE21-7UB1	A02, A03, A04, A05, A06, A07, B01, B02, B03, B04
G120C-2 USS FSC (3AC, 400V, UF, 11.0kW)	6SL3210-1KE22-6UB1	A02, A03, A04, A05, A06, A07, B01, B02, B03, B04
G120C-2 USS FSC (3AC, 400V, UF, 15.0kW)	6SL3210-1KE23-2UB1	A02, A03, A04, A05, A06, A07, B01, B02, B03, B04
G120C-2 USS FSC (3AC, 400V, UF, 18.5kW)	6SL3210-1KE23-8UB1	A02, A03, A04, A05, A06, A07, B01, B02, B03, B04
DP – FSAA		
G120C-2 DP FSAA (3AC, 400V, AF, 0.55kW)	6SL3210-1KE11-8AP2	02, 03, 04, 05
G120C-2 DP FSAA (3AC, 400V, AF, 0.75kW)	6SL3210-1KE12-3AP2	02, 03, 04
G120C-2 DP FSAA (3AC, 400V, AF, 1.10kW)	6SL3210-1KE13-2AP2	02, 03, 04

G120C-2 DP FSAA (3AC, 400V, AF, 1.50kW)	6SL3210-1KE14-3AP2	02, 03, 04
G120C-2 DP FSAA (3AC, 400V, AF, 2.20kW)	6SL3210-1KE15-8AP2	02, 03, 04
G120C-2 DP FSAA (3AC, 400V, UF, 0.55kW)	6SL3210-1KE11-8UP2	02, 03, 04
G120C-2 DP FSAA (3AC, 400V, UF, 0.75kW)	6SL3210-1KE12-3UP2	02, 03, 04
G120C-2 DP FSAA (3AC, 400V, UF, 1.10kW)	6SL3210-1KE13-2UP2	02, 03, 04
G120C-2 DP FSAA (3AC, 400V, UF, 1.50kW)	6SL3210-1KE14-3UP2	02, 03, 04
G120C-2 DP FSAA (3AC, 400V, UF, 2.20kW)	6SL3210-1KE15-8UP2	02, 03, 04
PN – FSAA		
G120C-2 PN FSAA (3AC, 400V, AF, 0.55kW)	6SL3210-1KE11-8AF2	02, 03, 04, 05
G120C-2 PN FSAA (3AC, 400V, AF, 0.75kW)	6SL3210-1KE12-3AF2	02, 03, 04, 05
G120C-2 PN FSAA (3AC, 400V, AF, 1.10kW)	6SL3210-1KE13-2AF2	02, 03, 04, 05
G120C-2 PN FSAA (3AC, 400V, AF, 1.50kW)	6SL3210-1KE14-3AF2	02, 03, 04, 05
G120C-2 PN FSAA (3AC, 400V, AF, 2.20kW)	6SL3210-1KE15-8AF2	02, 03, 04, 05
G120C-2 PN FSAA (3AC, 400V, UF, 0.55kW)	6SL3210-1KE11-8UF2	02, 03, 04, 05
G120C-2 PN FSAA (3AC, 400V, UF, 0.75kW)	6SL3210-1KE12-3UF2	02, 03, 04, 05
G120C-2 PN FSAA (3AC, 400V, UF, 1.10kW)	6SL3210-1KE13-2UF2	02, 03, 04, 05
G120C-2 PN FSAA (3AC, 400V, UF, 1.50kW)	6SL3210-1KE14-3UF2	02, 03, 04, 05
G120C-2 PN FSAA (3AC, 400V, UF, 2.20kW)	6SL3210-1KE15-8UF2	02, 03, 04, 05
USS – FSAA		
G120C-2 USS FSAA (3AC, 400V, AF, 0.55kW)	6SL3210-1KE11-8AB2	02, 03, 04
G120C-2 USS FSAA (3AC, 400V, AF, 0.75kW)	6SL3210-1KE12-3AB2	02, 03, 04
G120C-2 USS FSAA (3AC, 400V, AF, 1.10kW)	6SL3210-1KE13-2AB2	02, 03, 04
G120C-2 USS FSAA (3AC, 400V, AF, 1.50kW)	6SL3210-1KE14-3AB2	02, 03, 04
G120C-2 USS FSAA (3AC, 400V, AF, 2.20kW)	6SL3210-1KE15-8AB2	02, 03, 04
G120C-2 USS FSAA (3AC, 400V, UF, 0.55kW)	6SL3210-1KE11-8UB2	02, 03, 04
G120C-2 USS FSAA (3AC, 400V, UF, 0.75kW)	6SL3210-1KE12-3UB2	02, 03, 04
G120C-2 USS FSAA (3AC, 400V, UF, 1.10kW)	6SL3210-1KE13-2UB2	02, 03, 04
G120C-2 USS FSAA (3AC, 400V, UF, 1.50kW)	6SL3210-1KE14-3UB2	02, 03, 04
G120C-2 USS FSAA (3AC, 400V, UF, 2.20kW)	6SL3210-1KE15-8UB2	02, 03, 04

3 System Related Software

According to IEC61508-4 (2010) the related engineering system “SINAMICS Startdrive” is classified as T3 off-line support tool. Therefore, all required measures considering T3 off-line support tools as defined in [1] were applied.

Off-Line Support Tool	Version (Startdrive)
SINAMICS Startdrive (TIA Portal)	V13 V14 V14.1 V15 V15.1 V16 V17 V17.1 V18 V18.1
SINAMICS Startdrive Advanced (incl. Safety Acceptance Test)	V15 V15.1 V16 V17 V17.1 V18 V18.1