SIEMENS

Manufacturer's Declaration

Nr. / No. SINAMICS_G120C_668.DCOBC0318.40.035

Manufacturer:	SIEMENS Aktiengesellschaft
Address:	SIEMENS Aktiengesellschaft; DF 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, 18-03-26

G. Bock

i.V. .....

Vice President Technology, Test, Infrastructure & Process

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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 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 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 V 4.7 SP10	V 4.7 SP9 V 4.7 SP9 HF1 V 4.7 SP10	04.71.02.00

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
G120C USS (3AC, 400V, UF, 7.50kW)	6SL3210-1KE21-7UB0	A02, A03

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
G120C 400V FSD PN 22kW UFIL	6SL3210-1KE24-4UF1	01
G120C 400V FSD PN 30kW FILA	6SL3210-1KE26-0AF1	01
G120C 400V FSD PN 30kW UFIL	6SL3210-1KE26-0UF1	01
G120C 400V FSD PN 37kW FILA	6SL3210-1KE27-0AF1	01
G120C 400V FSD PN 37kW UFIL	6SL3210-1KE27-0UF1	01
G120C 400V FSD PN 45kW FILA	6SL3210-1KE28-4AF1	01
G120C 400V FSD PN 45kW UFIL	6SL3210-1KE28-4UF1	01
G120C 400V FSE PN 55kW FILA	6SL3210-1KE31-1AF1	01
G120C 400V FSE PN 55kW UFIL	6SL3210-1KE31-1UF1	01
G120C 400V FSF PN 75kW FILA	6SL3210-1KE31-4AF1	01
G120C 400V FSF PN 75kW UFIL	6SL3210-1KE31-4UF1	01
G120C 400V FSF PN 90kW FILA	6SL3210-1KE31-7AF1	01
G120C 400V FSF PN 90kW UFIL	6SL3210-1KE31-7UF1	01
G120C PN FSF 400V 110kW FILA	6SL3210-1KE32-1AF1	01
G120C PN FSF 400V 110kW UFIL	6SL3210-1KE32-1UF1	01
G120C PN FSF 400V 132kW FILA	6SL3210-1KE32-4AF1	01
G120C PN FSF 400V 132kW UFIL	6SL3210-1KE32-4UF1	01
FSD-F USS 400V		
G120C FSD (3AC, 400V, AF, 22kW), USS	6SL3210-1KE24-4AB1	01
G120C FSD (3AC, 400V, UF, 22kW), USS	6SL3210-1KE24-4UB1	01
G120C FSD (3AC, 400V, AF, 30kW), USS	6SL3210-1KE26-0AB1	01
G120C FSD (3AC, 400V, UF, 30kW), USS	6SL3210-1KE26-0UB1	01
G120C FSD (3AC, 400V, AF, 37kW), USS	6SL3210-1KE27-0AB1	01
G120C FSD (3AC, 400V, UF, 37kW), USS	6SL3210-1KE27-0UB1	01
G120C FSD (3AC, 400V, AF, 45kW), USS	6SL3210-1KE28-4AB1	01
G120C FSD (3AC, 400V, UF, 45kW), USS	6SL3210-1KE28-4UB1	01
G120C FSE (3AC, 400V, AF, 55kW), USS	6SL3210-1KE31-1AB1	01
G120C FSE (3AC, 400V, UF, 55kW), USS	6SL3210-1KE31-1UB1	01
G120C FSF (3AC, 400V, AF, 75kW), USS	6SL3210-1KE31-4AB1	01
G120C FSF (3AC, 400V, UF, 75kW), USS	6SL3210-1KE31-4UB1	01
G120C FSF (3AC, 400V, AF, 90kW), USS	6SL3210-1KE31-7AB1	01
G120C FSF (3AC, 400V, UF, 90kW), USS	6SL3210-1KE31-7UB1	01
G120C FSF (3AC, 400V, AF, 110kW), USS	6SL3210-1KE32-1AB1	01
G120C FSF (3AC, 400V, UF, 110kW), USS	6SL3210-1KE32-1UB1	01

G120C FSF (3AC, 400V, AF, 132kW), USS	6SL3210-1KE32-4AB1	01
G120C FSF (3AC, 400V, UF, 132kW), USS	6SL3210-1KE32-4UB1	01

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
G120C-2 CAN FSA (3AC, 400V, AF, 0.75kW)	6SL3210-1KE12-3AC1	A02, A03, A04, A05, A06, A07, B01, C01
G120C-2 CAN FSA (3AC, 400V, AF, 1.10kW)	6SL3210-1KE13-2AC1	A02, A03, A04, A05, A06, A07, B01, C01
G120C-2 CAN FSA (3AC, 400V, AF, 1.50kW)	6SL3210-1KE14-3AC1	A02, A03, A04, A05, A06, A07, B01, C01
G120C-2 CAN FSA (3AC, 400V, AF, 2.20kW)	6SL3210-1KE15-8AC1	A02, A03, A04, A05, A06, A07, B01, C01
G120C-2 CAN FSA (3AC, 400V, AF, 3.00kW)	6SL3210-1KE17-5AC1	A02, A03, A04, A05, A06, A07, B01, C01
G120C-2 CAN FSA (3AC, 400V, AF, 4.00kW)	6SL3210-1KE18-8AC1	A02, A03, A04, A05, A06, A07, B01, C01
G120C-2 CAN FSB (3AC, 400V, AF, 5.50kW)	6SL3210-1KE21-3AC1	A02, A03, A04, A05, A06, A07, B01, B02
G120C-2 CAN FSB (3AC, 400V, AF, 7.50kW)	6SL3210-1KE21-7AC1	A02, A03, A04, A05, A06, A07, B01, B02
G120C-2 CAN FSC (3AC, 400V, AF, 11.0kW)	6SL3210-1KE22-6AC1	A02, A03, A04, A05, A06, A07, B01, B02
G120C-2 CAN FSC (3AC, 400V, AF, 15.0kW)	6SL3210-1KE23-2AC1	A02, A03, A04, A05, A06, A07, B01, B02
G120C-2 CAN FSC (3AC, 400V, AF, 18.5kW)	6SL3210-1KE23-8AC1	A02, A03, A04, A05, A06, A07, B01, B02
G120C-2 CAN FSA (3AC, 400V, UF, 0.55kW)	6SL3210-1KE11-8UC1	A02, A03, A04, A05, A06, A07, B01, C01
G120C-2 CAN FSA (3AC, 400V, UF, 0.75kW)	6SL3210-1KE12-3UC1	A02, A03, A04, A05, A06, A07, B01, C01
G120C-2 CAN FSA (3AC, 400V, UF, 1.10kW)	6SL3210-1KE13-2UC1	A02, A03, A04, A05, A06, A07, B01, C01
G120C-2 CAN FSA (3AC, 400V, UF, 1.50kW)	6SL3210-1KE14-3UC1	A02, A03, A04, A05, A06, A07, B01, C01
G120C-2 CAN FSA (3AC, 400V, UF, 2.20kW)	6SL3210-1KE15-8UC1	A02, A03, A04, A05, A06, A07, B01, C01
G120C-2 CAN FSA (3AC, 400V, UF, 3.00kW)	6SL3210-1KE17-5UC1	A02, A03, A04, A05, A06, A07, B01, C01
G120C-2 CAN FSA (3AC, 400V, UF, 4.00kW)	6SL3210-1KE18-8UC1	A02, A03, A04, A05, A06, A07, B01, C01
G120C-2 CAN FSB (3AC, 400V, UF, 5.50kW)	6SL3210-1KE21-3UC1	A02, A03, A04, A05, A06, A07, B01, B02
G120C-2 CAN FSB (3AC, 400V, UF, 7.50kW)	6SL3210-1KE21-7UC1	A02, A03, A04, A05, A06, A07, B01, B02
G120C-2 CAN FSC (3AC, 400V, UF, 11.0kW)	6SL3210-1KE22-6UC1	A02, A03, A04, A05, A06, A07, B01, B02
G120C-2 CAN FSC (3AC, 400V, UF, 15.0kW)	6SL3210-1KE23-2UC1	A02, A03, A04, A05, A06, A07, B01, B02
G120C-2 CAN FSC (3AC, 400V, UF, 18.5kW)	6SL3210-1KE23-8UC1	A02, A03, A04, A05, A06, A07, B01, B02
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
G120C-2 DP FSA (3AC, 400V, AF, 0.75kW)	6SL3210-1KE12-3AP1	A02, A03, A04, A05, A06, A07, B01, C01, C02
G120C-2 DP FSA (3AC, 400V, AF, 1.10kW)	6SL3210-1KE13-2AP1	A02, A03, A04, A05, A06, A07, B01, C01, C02
G120C-2 DP FSA (3AC, 400V, AF, 1.50kW)	6SL3210-1KE14-3AP1	A02, A03, A04, A05, A06, A07, B01, C01, C02
G120C-2 DP FSA (3AC, 400V, AF, 2.20kW)	6SL3210-1KE15-8AP1	A02, A03, A04, A05, A06, A07, B01, C01, C02
G120C-2 DP FSA (3AC, 400V, AF, 3.00kW)	6SL3210-1KE17-5AP1	A02, A03, A04, A05, A06, A07, B01, C01, C02
G120C-2 DP FSA (3AC, 400V, AF, 4.00kW)	6SL3210-1KE18-8AP1	A02, A03, A04, A05, A06, A07, B01, C01, C02
G120C-2 DP FSB (3AC, 400V, AF, 5.50kW)	6SL3210-1KE21-3AP1	A02, A03, A04, A05, A06, A07, B01, B02, B03
G120C-2 DP FSB (3AC, 400V, AF, 7.50kW)	6SL3210-1KE21-7AP1	A02, A03, A04, A05, A06, A07, B01, B02, B03
G120C-2 DP FSC (3AC, 400V, AF, 11.0kW)	6SL3210-1KE22-6AP1	A02, A03, A04, A05, A06, A07, B01, B02, B03
G120C-2 DP FSC (3AC, 400V, AF, 15.0kW)	6SL3210-1KE23-2AP1	A02, A03, A04, A05, A06, A07, B01, B02, B03
G120C-2 DP FSC (3AC, 400V, AF, 18.5kW)	6SL3210-1KE23-8AP1	A02, A03, A04, A05, A06, A07, B01, B02, B03
G120C-2 DP FSA (3AC, 400V, UF, 0.55kW)	6SL3210-1KE11-8UP1	A02, A03, A04, A05, A06, A07, B01, C01, C02
G120C-2 DP FSA (3AC, 400V, UF, 0.75kW)	6SL3210-1KE12-3UP1	A02, A03, A04, A05, A06, A07, B01, C01, C02

G120C-2 DP FSA (3AC, 400V, UF, 1.10kW)	6SL3210-1KE13-2UP1	A02, A03, A04, A05, A06, A07, B01, C01, C02
G120C-2 DP FSA (3AC, 400V, UF, 1.50kW)	6SL3210-1KE14-3UP1	A02, A03, A04, A05, A06, A07, B01, C01, C02
G120C-2 DP FSA (3AC, 400V, UF, 2.20kW)	6SL3210-1KE15-8UP1	A02, A03, A04, A05, A06, A07, B01, C01, C02
G120C-2 DP FSA (3AC, 400V, UF, 3.00kW)	6SL3210-1KE17-5UP1	A02, A03, A04, A05, A06, A07, B01, C01, C02
G120C-2 DP FSA (3AC, 400V, UF, 4.00kW)	6SL3210-1KE18-8UP1	A02, A03, A04, A05, A06, A07, B01, C01, C02
G120C-2 DP FSB (3AC, 400V, UF, 5.50kW)	6SL3210-1KE21-3UP1	A02, A03, A04, A05, A06, A07, B01, B02, B03
G120C-2 DP FSB (3AC, 400V, UF, 7.50kW)	6SL3210-1KE21-7UP1	A02, A03, A04, A05, A06, A07, B01, B02, B03
G120C-2 DP FSC (3AC, 400V, UF, 11.0kW)	6SL3210-1KE22-6UP1	A02, A03, A04, A05, A06, A07, B01, B02, B03
G120C-2 DP FSC (3AC, 400V, UF, 15.0kW)	6SL3210-1KE23-2UP1	A02, A03, A04, A05, A06, A07, B01, B02, B03
G120C-2 DP FSC (3AC, 400V, UF, 18.5kW)	6SL3210-1KE23-8UP1	A02, A03, A04, A05, A06, A07, B01, B02, B03
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
G120C-2 PN FSA (3AC, 400V, AF, 0.75kW)	6SL3210-1KE12-3AF1	A02, A03, A04, A05, A06, A07, B01, C01, C02
G120C-2 PN FSA (3AC, 400V, AF, 1.10kW)	6SL3210-1KE13-2AF1	A02, A03, A04, A05, A06, A07, B01, C01, C02
G120C-2 PN FSA (3AC, 400V, AF, 1.50kW)	6SL3210-1KE14-3AF1	A02, A03, A04, A05, A06, A07, B01, C01, C02
G120C-2 PN FSA (3AC, 400V, AF, 2.20kW)	6SL3210-1KE15-8AF1	A02, A03, A04, A05, A06, A07, B01, C01, C02
G120C-2 PN FSA (3AC, 400V, AF, 3.00kW)	6SL3210-1KE17-5AF1	A02, A03, A04, A05, A06, A07, B01, C01, C02
G120C-2 PN FSA (3AC, 400V, AF, 3.00kW) EXTENDED	6SL3210-1KE17-5EF1	01
G120C-2 PN FSA (3AC, 400V, AF, 4.00kW)	6SL3210-1KE18-8AF1	A02, A03, A04, A05, A06, A07, B01, C01, C02
G120C-2 PN FSB (3AC, 400V, AF, 5.50kW)	6SL3210-1KE21-3AF1	A02, A03, A04, A05, A06, A07, B01, B02, B03
G120C-2 PN FSB (3AC, 400V, AF, 7.50kW)	6SL3210-1KE21-7AF1	A02, A03, A04, A05, A06, A07, B01, B02, B03
G120C-2 PN FSC (3AC, 400V, AF, 11.0kW)	6SL3210-1KE22-6AF1	A02, A03, A04, A05, A06, A07, B01, B02, B03
G120C-2 PN FSC (3AC, 400V, AF, 15.0kW)	6SL3210-1KE23-2AF1	A02, A03, A04, A05, A06, A07, B01, B02, B03
G120C-2 PN FSC (3AC, 400V, AF, 18.5kW)	6SL3210-1KE23-8AF1	A02, A03, A04, A05, A06, A07, B01, B02, B03
G120C-2 PN FSA (3AC, 400V, UF, 0.55kW)	6SL3210-1KE11-8UF1	A02, A03, A04, A05, A06, A07, B01, C01, C02
G120C-2 PN FSA (3AC, 400V, UF, 0.75kW)	6SL3210-1KE12-3UF1	A02, A03, A04, A05, A06, A07, B01, C01, C02
G120C-2 PN FSA (3AC, 400V, UF, 1.10kW)	6SL3210-1KE13-2UF1	A02, A03, A04, A05, A06, A07, B01, C01, C02
G120C-2 PN FSA (3AC, 400V, UF, 1.50kW)	6SL3210-1KE14-3UF1	A02, A03, A04, A05, A06, A07, B01, C01, C02
G120C-2 PN FSA (3AC, 400V, UF, 2.20kW)	6SL3210-1KE15-8UF1	A02, A03, A04, A05, A06, A07, B01, C01, C02
G120C-2 PN FSA (3AC, 400V, UF, 3.00kW)	6SL3210-1KE17-5UF1	A02, A03, A04, A05, A06, A07, B01, C01, C02
G120C-2 PN FSA (3AC, 400V, UF, 4.00kW)	6SL3210-1KE18-8UF1	A02, A03, A04, A05, A06, A07, B01, C01, C02
G120C-2 PN FSB (3AC, 400V, UF, 5.50kW)	6SL3210-1KE21-3UF1	A02, A03, A04, A05, A06, A07, B01, B02, B03
G120C-2 PN FSB (3AC, 400V, UF, 7.50kW)	6SL3210-1KE21-7UF1	A02, A03, A04, A05, A06, A07, B01, B02, B03
G120C-2 PN FSC (3AC, 400V, UF, 11.0kW)	6SL3210-1KE22-6UF1	A02, A03, A04, A05, A06, A07, B01, B02, B03
G120C-2 PN FSC (3AC, 400V, UF, 15.0kW)	6SL3210-1KE23-2UF1	A02, A03, A04, A05, A06, A07, B01, B02, B03
G120C-2 PN FSC (3AC, 400V, UF, 18.5kW)	6SL3210-1KE23-8UF1	A02, A03, A04, A05, A06, A07, B01, B02, B03
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
G120C-2 USS FSA (3AC, 400V, AF, 0.75kW)	6SL3210-1KE12-3AB1	A02, A03, A04, A05, A06, A07, B01, C01, C02
G120C-2 USS FSA (3AC, 400V, AF, 1.10kW)	6SL3210-1KE13-2AB1	A02, A03, A04, A05, A06, A07, B01, C01, C02
G120C-2 USS FSA (3AC, 400V, AF, 1.50kW)	6SL3210-1KE14-3AB1	A02, A03, A04, A05, A06, A07, B01, C01, C02
G120C-2 USS FSA (3AC, 400V, AF, 2.20kW)	6SL3210-1KE15-8AB1	A02, A03, A04, A05, A06, A07, B01, C01, C02
G120C-2 USS FSA (3AC, 400V, AF, 3.00kW)	6SL3210-1KE17-5AB1	A02, A03, A04, A05, A06, A07, B01, C01, C02
G120C-2 USS FSA (3AC, 400V, AF, 4.00kW)	6SL3210-1KE18-8AB1	A02, A03, A04, A05, A06, A07, B01, C01, C02
G120C-2 USS FSB (3AC, 400V, AF, 5.50kW)	6SL3210-1KE21-3AB1	A02, A03, A04, A05, A06, A07, B01, B02, B03
G120C-2 USS FSB (3AC, 400V, AF, 7.50kW)	6SL3210-1KE21-7AB1	A02, A03, A04, A05, A06, A07, B01, B02, B03

G120C-2 USS FSC (3AC, 400V, AF, 11.0kW)	6SL3210-1KE22-6AB1	A02, A03, A04, A05, A06, A07, B01, B02, B03
G120C-2 USS FSC (3AC, 400V, AF, 15.0kW)	6SL3210-1KE23-2AB1	A02, A03, A04, A05, A06, A07, B01, B02, B03
G120C-2 USS FSC (3AC, 400V, AF, 18.5kW)	6SL3210-1KE23-8AB1	A02, A03, A04, A05, A06, A07, B01, B02, B03
G120C-2 USS FSA (3AC, 400V, UF, 0.55kW)	6SL3210-1KE11-8UB1	A02, A03, A04, A05, A06, A07, B01, C01, C02
G120C-2 USS FSA (3AC, 400V, UF, 0.75kW)	6SL3210-1KE12-3UB1	A02, A03, A04, A05, A06, A07, B01, C01, C02
G120C-2 USS FSA (3AC, 400V, UF, 1.10kW)	6SL3210-1KE13-2UB1	A02, A03, A04, A05, A06, A07, B01, C01, C02
G120C-2 USS FSA (3AC, 400V, UF, 1.50kW)	6SL3210-1KE14-3UB1	A02, A03, A04, A05, A06, A07, B01, C01, C02
G120C-2 USS FSA (3AC, 400V, UF, 2.20kW)	6SL3210-1KE15-8UB1	A02, A03, A04, A05, A06, A07, B01, C01, C02
G120C-2 USS FSA (3AC, 400V, UF, 3.00kW)	6SL3210-1KE17-5UB1	A02, A03, A04, A05, A06, A07, B01, C01, C02
G120C-2 USS FSA (3AC, 400V, UF, 4.00kW)	6SL3210-1KE18-8UB1	A02, A03, A04, A05, A06, A07, B01, C01, C02
G120C-2 USS FSB (3AC, 400V, UF, 5.50kW)	6SL3210-1KE21-3UB1	A02, A03, A04, A05, A06, A07, B01, B02, B03
G120C-2 USS FSB (3AC, 400V, UF, 7.50kW)	6SL3210-1KE21-7UB1	A02, A03, A04, A05, A06, A07, B01, B02, B03
G120C-2 USS FSC (3AC, 400V, UF, 11.0kW)	6SL3210-1KE22-6UB1	A02, A03, A04, A05, A06, A07, B01, B02, B03
G120C-2 USS FSC (3AC, 400V, UF, 15.0kW)	6SL3210-1KE23-2UB1	A02, A03, A04, A05, A06, A07, B01, B02, B03
G120C-2 USS FSC (3AC, 400V, UF, 18.5kW)	6SL3210-1KE23-8UB1	A02, A03, A04, A05, A06, A07, B01, B02, B03
DP – FSAA		
G120C-2 DP FSAA (3AC, 400V, AF, 0.55kW)	6SL3210-1KE11-8AP2	02
G120C-2 DP FSAA (3AC, 400V, AF, 0.75kW)	6SL3210-1KE12-3AP2	02
G120C-2 DP FSAA (3AC, 400V, AF, 1.10kW)	6SL3210-1KE13-2AP2	02
G120C-2 DP FSAA (3AC, 400V, AF, 1.50kW)	6SL3210-1KE14-3AP2	02
G120C-2 DP FSAA (3AC, 400V, AF, 2.20kW)	6SL3210-1KE15-8AP2	02
G120C-2 DP FSAA (3AC, 400V, UF, 0.55kW)	6SL3210-1KE11-8UP2	02
G120C-2 DP FSAA (3AC, 400V, UF, 0.75kW)	6SL3210-1KE12-3UP2	02
G120C-2 DP FSAA (3AC, 400V, UF, 1.10kW)	6SL3210-1KE13-2UP2	02
G120C-2 DP FSAA (3AC, 400V, UF, 1.50kW)	6SL3210-1KE14-3UP2	02
G120C-2 DP FSAA (3AC, 400V, UF, 2.20kW)	6SL3210-1KE15-8UP2	02
PN – FSAA		
G120C-2 PN FSAA (3AC, 400V, AF, 0.55kW)	6SL3210-1KE11-8AF2	02
G120C-2 PN FSAA (3AC, 400V, AF, 0.75kW)	6SL3210-1KE12-3AF2	02
G120C-2 PN FSAA (3AC, 400V, AF, 1.10kW)	6SL3210-1KE13-2AF2	02
G120C-2 PN FSAA (3AC, 400V, AF, 1.50kW)	6SL3210-1KE14-3AF2	02
G120C-2 PN FSAA (3AC, 400V, AF, 2.20kW)	6SL3210-1KE15-8AF2	02
G120C-2 PN FSAA (3AC, 400V, UF, 0.55kW)	6SL3210-1KE11-8UF2	02
G120C-2 PN FSAA (3AC, 400V, UF, 0.75kW)	6SL3210-1KE12-3UF2	02
G120C-2 PN FSAA (3AC, 400V, UF, 1.10kW)	6SL3210-1KE13-2UF2	02
G120C-2 PN FSAA (3AC, 400V, UF, 1.50kW)	6SL3210-1KE14-3UF2	02
G120C-2 PN FSAA (3AC, 400V, UF, 2.20kW)	6SL3210-1KE15-8UF2	02
USS – FSAA		
G120C-2 USS FSAA (3AC, 400V, AF, 0.55kW)	6SL3210-1KE11-8AB2	02
G120C-2 USS FSAA (3AC, 400V, AF, 0.75kW)	6SL3210-1KE12-3AB2	02
G120C-2 USS FSAA (3AC, 400V, AF, 1.10kW)	6SL3210-1KE13-2AB2	02
G120C-2 USS FSAA (3AC, 400V, AF, 1.50kW)	6SL3210-1KE14-3AB2	02
G120C-2 USS FSAA (3AC, 400V, AF, 2.20kW)	6SL3210-1KE15-8AB2	02
G120C-2 USS FSAA (3AC, 400V, UF, 0.55kW)	6SL3210-1KE11-8UB2	02
G120C-2 USS FSAA (3AC, 400V, UF, 0.75kW)	6SL3210-1KE12-3UB2	02
G120C-2 USS FSAA (3AC, 400V, UF, 1.10kW)	6SL3210-1KE13-2UB2	02
G120C-2 USS FSAA (3AC, 400V, UF, 1.50kW)	6SL3210-1KE14-3UB2	02

G120C-2 USS FSAA (3AC, 400V, UF, 2.20kW)	6SL3210-1KE15-8UB2	02

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 TIA Portal
SINAMICS Startdrive (TIA Portal)	V13 SP1 Update 2 V13 SP1 Update 3 V13 SP2 V13 SP2 Update 1 V13 SP2 Update 2 V14 V14 Update 2 V14 SP1 V14 SP1 Update 1 V14 SP1 Update 3 V14 SP1 Update 4 V14 SP1 Update 5 V14 SP1 Update 6 V15 V15 Update 1 V15 Update 2