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	Notes (footnotes are applicable line by line)	Order-No. Type (for complete Order-No., see notes)	Order code	SINUMERIK 802D sl/840Di sl/840D sl										
				802D sl - T/M	802D sl - G/N	840 DiE sl	840 Di sl	840DE sl	840 D sl	SINUMERIK Operate	HMI-Advanced	HMI-Embedded	ShopMill HMI	ShopTurn HMI
										Blank field: Function is not dependent on operating software				
• 840Di sl (PCU 50.3B-P 2,0 GHz/1 GB + MCI2 board, Windows XP ProEmbSys)		**6FC5220-0AA33-2AB0**		N	N	O	O	N	N	N	O	N	V	V
MCI board extension slot version with cable distributor		**6FC5222-0AA00-0AA1** **6FX2006-1BA02**		N	N	O	O	N	N					
Software for SINUMERIK 840Di sl:														
• CNC software 6-3/20-5 and ShopMill HMI, ShopTurn HMI and HMI-Advanced, export version, on DVD-ROM, without license	See Basic components.	**6FC5820-3YC..-.YA8**		N	N	O	N	N	N	N	S		S	S
• CNC software 6-3, export version, license		**6FC5820-1YP00-0YB0**		N	N	O	N	N	N	N				
• CNC software 20-5, export version, license		**6FC5820-3YP00-0YB0**		N	N	O	N	N	N	N				
• CNC software 6-3/20-5 and ShopMill HMI, ShopTurn HMI and HMI-Advanced, on DVD-ROM, without license	See Basic components.	**6FC5820-3XC..-.YA8**		N	N	N	O	N	N	N	S		S	S
• CNC software 6-3, license		**6FC5820-1XP00-0YB0**		N	N	N	O	N	N	N				
• CNC software 20-5, license		**6FC5820-3XP00-0YB0**		N	N	N	O	N	N	N				
SINUMERIK 802D sl:														
• Version T/M value, export version		**6FC5370-0AA00-1AA1**		S	N	N	N	N	N					
• Version T/M plus, export version		**6FC5370-0AA00-2AA1**		S	N	N	N	N	N					
• Version T/M pro, export version		**6FC5370-0AA00-3AA1**		S	N	N	N	N	N					
• Version G/N plus, export version		**6FC5370-0AA00-2BA1**		N	S	N	N	N	N					
• Version G/N pro, export version		**6FC5370-0AA00-3BA1**		N	S	N	N	N	N					
Channels/mode group (MG):				S 1	S 1	S 1	S 1	S 1	S 1					
• Maximum configuration				1	1					10	10	10	1	1
CNC software 6-3				N	N	2	2	2	2					
CNC software 20-5/31-5				N	N	10	10	10	10					
NCU 710.2/NCU 710.3 PN				N	N	N	N	4	4					
NCU 720.2/NCU 730.2/NCU 720.3 PN/NCU 730.3 PN				N	N	N	N	10	10					
• Mode group (MG), each additional		**6FC5800-0AC00-0YB0**	**C01 ... C09**	N	N	O	O	O	O	O	O	O	N	N
• Machining channel, each additional	Example: 4 additional machining channels: 6FC5800-0AC10-0YB0-Z C14	**6FC5800-0AC10-0YB0**	**C11 ... C19**	N	N	O	O	O	O	O	O	O	N	N
CNC user memory (buffered) for programs and OEM cycles in MB	[1] With value version: 512 KB. With plus version: 1 MB.			S 3[1]	S 3[1]	S 5	S 5	S 3	S 3					
CNC user memory for programs, OEM cycles and data expansion by 2 MB in each case	Example: Expansion by 6 Mbyte: D03	**6FC5800-0AD00-0YB0**	**D01 ... D06**	N	N	N	N	O	O					
CNC user memory, maximum configuration	[1] With value version: 512 KB. With plus version: 1 MB. [2] For NCU 710.2/ NCU 710.3 PN max. 9 MB.			3[1]	3[1]	5	5	15[2]	15[2]					
HMI user memory, additional on CF card of NCU	[1] On external CF card on the front. [2] On CF card of NCU, not with HMI on PCU 50.	**6FC5800-0AP12-0YB0**	**P12**	S [1]	S [1]	N	N	F [2]	F [2]	O [2]	N	O	O [2]	O [2]

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				802D sl - T/M	802D sl - G/N	840 DiE sl	840 Di sl	840DE sl	840 D sl	SINUMERIK Operate	HMI-Advanced	HMI-Embedded	ShopMill HMI	ShopTurn HMI
Axes/spindles or positioning axes/auxiliary spindle:	1) With value version: 3/1.			4/1 3/2[1)]	4/1 3/2									
CNC software 6-3				N	N	S 3	S 3	S 3	S 3					
CNC software 20-5/31-5				N	N	S 5	S 5	S 5	S 5					
• Maximum configuration of axes	1) With value version: 3/1. 2) Display: 3 geometry axes + 2 additional axes + 1 spindle. 3) Display: 3 geometry axes + 2 additional axes + 3 spindle.			4/1 3/2[1)]	4/1 3/2	20	20			31	31	31	12[2)]	12[3)]
NCU 710.2/NCU 710.3 PN				N	N	N	N	6	6					
NCU 720.2/NCU 730.2/NCU 720.3 PN/NCU 730.3 PN				N	N	N	N	31	31					
• Maximum configuration of spindles	1) With value version: 1.			2[1)]	2	20	20			31	31	31	1	3+2C
NCU 710.2/NCU 710.3 PN				N	N	N	N	6	6					
NCU 720.2/NCU 730.2/NCU 720.3 PN/NCU 730.3 PN				N	N	N	N	31	31					
• Maximum configuration axes/spindles	1) With value version: 3/1.			4/1 3/2[1)]	4/1 3/2	20	20			31	31	31	12	12
NCU 710.2/NCU 710.3 PN				N	N	N	N	6	6					
NCU 720.2/NCU 730.2/NCU 720.3 PN/NCU 730.3 PN				N	N	N	N	31	31					
• Configuration per channel axes incl. spindles	1) With value version: 3/1.			4/1 3/2[1)]	4/1 3/2	12	12			20 20	20 20	20 20	12 1	12 3
NCU 710.2/NCU 710.3 PN				N	N	N	N	6	6					
NCU 720.2/NCU 730.2/NCU 720.3 PN/NCU 730.3 PN				N	N	N	N	20	20					
Axis/spindle, each additional	Example: 12 additional axes/spindles: A12	**6FC5800-0AA00-0YB0**	**A01 ... A26**	N	N	O	O	O	O					
Positioning axis/auxiliary spindle, each additional		**6FC5800-0AB00-0YB0**	**B01 ... B26**	N	N	O	O	O	O					
Multi-axis package (expansion to 31 axes/spindles and 10 channels)	SW 2.7 and higher.	**6FC5800-0AM10-0YB0**	**M10**	N	N	N	N	O	O					
PLC-controlled axis	1) With plus and pro versions.			1[1)]	1[1)]	S	S	S	S					
PLC positioning axis via PROFIBUS DP				N	N	S	S	S	S					
• Maximum configuration axes/spindles, numerically and PLC-controlled										50	50	N	N	N
NCU 710.2/NCU 710.3 PN				N	N	N	N	15	15					
NCU 720.2/NCU 720.3 PN				N	N	N	N	40	40					
NCU 730.2/NCU 730.3 PN				N	N	N	N	50	50					
• Maximum configuration axes/spindles, PLC-controlled	1) No CNC options required.									50	50	N	N	N
NCU 710.2/NCU 710.3 PN	1) Max. 15 minus numerically controlled axes/spindles.			N	N	N	N	9…15	9…15					
NCU 720.2/NCU 720.3 PN	1) Max. 40 minus numerically controlled axes/spindles.			N	N	N	N	9…40	9…40					
NCU 730.2/NCU 730.3 PN	1) Max. 50 minus numerically controlled axes/spindles.			N	N	N	N	19…50	19…50					

Drives

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				802D sl - T/M	802D sl - G/N	840 DiE sl	840 Di sl	840DE sl	840 D sl	SINUMERIK Operate	HMI-Advanced	HMI-Embedded	ShopMill HMI	ShopTurn HMI
										Blank field: Function is not dependent on operating software				
SINAMICS S120 Combi		**6SL3111-3VE21-6FA0 6SL3111-3VE21-6EA0 6SL3111-3VE22-0HA0 6SL3111-4VE21-6FA0 6SL3111-4VE21-6EA0 6SL3111-4VE22-0HA0**		N	N	N	N	N	N					
SINAMICS S120 booksize compact format, Motor Modules as an extension for SINAMICS S120 Combi		**6SL34..-…..-….**		N	N	N	N	N	N					
SINAMICS S120 booksize compact format				N	N	N	N	N	N					
SINAMICS S120 booksize format, Motor Modules via DRIVE-CLiQ	See SINAMICS S120 drive system.			S	S	N	N	S	S					
SINAMICS S120 CU320-2 Control Unit via PROFIBUS DP (without CompactFlash card)	With NCU 7x0.3 PN SW version 2.7 SP3 and higher.	**6SL3040-1MA00-0A..**		N	N	N	N	O	O					
SINAMICS S120 CU320-2 Control Unit with CBE20 via PROFINET (without CompactFlash card)	With NCU 7x0.3 PN SW version 2.7 SP3 and higher. For positioning tasks via PLC.	**6SL3040-1MA01-0A..**		N	N	N	N	O	O					
CompactFlash card with current SINAMICS FW version														
• License for basic performance		**6SL3054-0EE00-1BA0**												
• License with Performance extension firmware option		**6SL3054-0EE01-1BA0**												
SINAMICS S120 CU320 Control Unit via PROFIBUS DP (without CompactFlash card)	[1] With NCU 7x0.2	**6SL3040-0MA00-0A..**		N	N	S	S	O [1]	O [1]					
SINAMICS S120 CU320 Control Unit with CBE20 via PROFINET (without CompactFlash card)	With NCU 7x0.2 SW version 2.7 SP3 and higher. For positioning tasks via PLC.	**6SL3040-0MA00-0A..**		N	N	N	N	O	O					
CompactFlash card with current SINAMICS FW version														
• License for basic performance		**6SL3054-0AA00-1AA0**												
• License with Performance extension firmware option		**6SL3054-0AA01-1AA0**												
SINAMICS S120 CU310-2 DP closed-loop control	See SINAMICS S120 drive system. With NCU 7x0.3 PN. For positioning tasks via PLC with blocksize Power Module.	**6SL3040-1LA00-0AA.**		N	N	N	N	O	O					
SINAMICS S120 CU310-2 PN closed-loop control	See SINAMICS S120 drive system. With NCU 7x0.3 PN. For positioning tasks via PLC with blocksize Power Module.	**6SL3040-1LA01-0AA.**		N	N	N	N	O	O					
SINAMICS S120 CU310 DP closed-loop control	See SINAMICS S120 drive system. With NCU 7x0.2. For positioning tasks via PLC with blocksize Power Module.	**6SL3040-0LA00-0AA.**		N	N	N	N	O	O					
SINAMICS S120 CU310 PN closed-loop control	See SINAMICS S120 drive system. With NCU 7x0.2. For positioning tasks via PLC with blocksize Power Module.	**6SL3040-0LA01-0AA.**		N	N	N	N	O	O					
SINAMICS S120 Control Unit Adapter CUA31	See SINAMICS S120 drive system.	**6SL3040-0PA00-0A..**		O	O	N	N	O	O					
SINAMICS S120 Sensor Modules Cabinet				O	O	O	O	O	O					

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				802D sl - T/M	802D sl - G/N	840 DiE sl	840 Di sl	840DE sl	840 D sl	SINUMERIK Operate	HMI-Advanced	HMI-Embedded	ShopMill HMI	ShopTurn HMI
				Blank field: Function is not dependent on operating software										
• SINAMICS S120 SMC10	See SINAMICS S120 drive system. 1) No SINUMERIK Safety Integrated.	**6SL3055-0AA00-5AA3**						1)	1)					
• SINAMICS S120 SMC20	See SINAMICS S120 drive system.	**6SL3055-0AA00-5BA3**												
• SINAMICS S120 SMC30	See SINAMICS S120 drive system. 1) No SINUMERIK Safety Integrated.	**6SL3055-0AA00-5CA3**						1)	1)					
SINAMICS S120 Sensor Modules Extern				N	N	O	O	O	O					
• SINAMICS S120 SME20	See SINAMICS S120 drive system.	**6SL3055-0AA00-5EA3**												
• SINAMICS S120 SME25	See SINAMICS S120 drive system.	**6SL3055-0AA00-5HA3**												
• SINAMICS S120 SME120	See SINAMICS S120 drive system.	**6SL3055-0AA00-5JA3**												
• SINAMICS S120 SME125	See SINAMICS S120 drive system.	**6SL3055-0AA00-5KA3**												
SINAMICS S120 TB/TM Terminal Module														
• SINAMICS S120 TB30		**6SL3055-0AA00-2T..**		N	N	N	N	N	N					
• SINAMICS S120 TM31	See SINAMICS S120 drive system.	**6SL3055-0AA00-3A..**		N	N	N	N	N	N					
• SINAMICS S120 TM41	See SINAMICS S120 drive system. 1) SW version 1.5 HF5, SW version 2.5 HF2 and higher.	**6SL3055-0AA00-3P..**		N	N	N	N	O 1)	O 1)					
• SINAMICS S120 TM15	See SINAMICS S120 drive system.	**6SL3055-0AA00-3FA.**		N	N	O	O	O	O					
• SINAMICS S120 TM17	1) SW version 2.6 SP1 HF2 and higher plus option N51.	**6SL3055-0AA00-3HA.**		N	N	N	N	N	O 1)					
• SINAMICS S120 TM120		**6SL3055-0AA00-3KA0**		N	N	N	N	N	N					
SINAMICS S120 expansion modules														
• SINAMICS S120 VSM10	See SINAMICS S120 drive system.	**6SL3053-0AA00-3A..**		N	N	N	N	N	N					
• SINAMICS S120 DMC20	See SINAMICS S120 drive system.	**6SL3055-0AA00-6AA.**		O	O	O	O	O	O					
• SINAMICS S120 DME20	See SINAMICS S120 drive system.	**6SL3055-0AA00-6AB.**		O	O	O	O	O	O					
SINAMICS S120 booksize format Motor Modules, internal air cooling	See SINAMICS S120 drive system.	**6SL3120-1TE13-0A..** **6SL3120-1TE15-0A..** **6SL3120-1TE21-0A..** **6SL3120-1TE21-8A..** **6SL3120-1TE23-0A..** **6SL3120-1TE24-5A..** **6SL3120-1TE26-0A..** **6SL3120-1TE28-5A..** **6SL3120-1TE31-3A..** **6SL3120-1TE32-0A..** **6SL3120-2TE13-0A..** **6SL3120-2TE15-0A..** **6SL3120-2TE21-0A..** **6SL3120-2TE21-8A..**		O	O	O	O	O	O					

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				Blank field: Function is not dependent on operating software										
SINAMICS S120 booksize format Motor Modules, external air cooling	See SINAMICS S120 drive system.	**6SL3121-1TE13-0A.. 6SL3121-1TE15-0A.. 6SL3121-1TE21-0A.. 6SL3121-1TE21-8A.. 6SL3121-1TE23-0A.. 6SL3121-1TE24-5A.. 6SL3121-1TE26-0A.. 6SL3121-1TE28-5A.. 6SL3121-1TE31-3A.. 6SL3121-1TE32-0A.. 6SL3121-2TE13-0A.. 6SL3121-2TE15-0A.. 6SL3121-2TE21-0A.. 6SL3121-2TE21-8A..**		O	O	O	O	O	O					
SINAMICS S120 booksize format Motor Modules, cold plate cooling	See SINAMICS S120 drive system.	**6SL3126-1TE13-0A.. 6SL3126-1TE15-0A.. 6SL3126-1TE21-0A.. 6SL3126-1TE21-8A.. 6SL3126-1TE23-0A.. 6SL3126-1TE24-5A.. 6SL3126-1TE26-0A.. 6SL3126-1TE28-5A.. 6SL3126-1TE31-3A.. 6SL3126-1TE32-0A.. 6SL3126-2TE13-0A.. 6SL3126-2TE15-0A.. 6SL3126-2TE21-0A.. 6SL3126-2TE21-8A..**		N	N	O	O	O	O					
SINAMICS S120 booksize format Active Line Modules, internal air cooling	See SINAMICS S120 drive system.	**6SL3130-7TE21-6A.. 6SL3130-7TE23-6A.. 6SL3130-7TE25-5A.. 6SL3130-7TE28-0A.. 6SL3130-7TE31-2A..**		O	O	O	O	O	O					
SINAMICS S120 booksize format Active Line Modules, external air cooling	See SINAMICS S120 drive system.	**6SL3131-7TE21-6A.. 6SL3131-7TE23-6A.. 6SL3131-7TE25-5A.. 6SL3131-7TE28-0A.. 6SL3131-7TE31-2A..**		O	O	O	O	O	O					
SINAMICS S120 booksize format Active Line Modules, cold plate cooling	See SINAMICS S120 drive system.	**6SL3136-7TE21-6A.. 6SL3136-7TE23-6A.. 6SL3136-7TE25-5A.. 6SL3136-7TE28-0A.. 6SL3136-7TE31-2A..**		N	N	O	O	O	O					

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										Blank field: Function is not dependent on operating software				
SINAMICS S120 booksize format Active Interface Modules	See SINAMICS S120 drive system.	**6SL3100-0BE21-6A.. 6SL3100-0BE23-6A.. 6SL3100-0BE25-5A.. 6SL3100-0BE28-0A.. 6SL3100-0BE31-2A..**		N	N	O	O	O	O					
SINAMICS S120 booksize format Smart Line Modules, internal air cooling	See SINAMICS S120 drive system.	**6SL3130-6AE15-0A.. 6SL3130-6AE21-0A.. 6SL3130-6TE21-6A.. 6SL3130-6TE23-6A..**		O	O	O	O	O	O					
SINAMICS S120 booksize format Smart Line Modules, external air cooling	See SINAMICS S120 drive system.	**6SL3131-6AE15-0A.. 6SL3131-6AE21-0A.. 6SL3131-6TE21-6A.. 6SL3131-6TE23-6A..**		O	O	O	O	O	O					
SINAMICS S120 booksize format Smart Line Modules, cold plate cooling	See SINAMICS S120 drive system.	**6SL3136-6AE15-0A.. 6SL3136-6AE21-0A..**		N	N	O	O	O	O					
SINAMICS S120 booksize format Basic Line Modules, internal air cooling	See SINAMICS S120 drive system.	**6SL3130-1TE22-0A.. 6SL3130-1TE24-0A.. 6SL3130-1TE31-0A..**		N	N	O	O	O	O					
SINAMICS S120 booksize format Basic Line Modules, cold plate cooling	See SINAMICS S120 drive system.	**6SL3136-1TE22-0A.. 6SL3136-1TE24-0A.. 6SL3136-1TE31-0A..**		N	N	O	O	O	O					
SINAMICS S120 chassis format Motor Modules, internal air cooling (rated pulse frequency 2 kHz)	See SINAMICS S120 drive system. 1) SINUMERIK Safety Integrated SW version 2.6 and higher.	**6SL3320-1TE32-1AA. 6SL3320-1TE32-6AA. 6SL3320-1TE33-1AA. 6SL3320-1TE33-8AA. 6SL3320-1TE35-0AA.**		N	N	O	O	O 1)	O 1)					
SINAMICS S120 chassis format Motor Modules, internal air cooling (rated pulse frequency 1,25 kHz)		**6SL3320-1TE36-1AA. 6SL3320-1TE37-5AA. 6SL3320-1TE38-4AA. 6SL3320-1TE41-0AA. 6SL3320-1TE41-2AA. 6SL3320-1TE41-4AA.**		N	N	N	N	N	N					
SINAMICS S120 chassis format Active Line Modules, internal air cooling (up to 300 kW)	See SINAMICS S120 drive system. 1) SW version 2.6 and higher, max. 2 ALM.	**6SL3330-7TE32-1AA. 6SL3330-7TE32-6AA. 6SL3330-7TE33-8AA. 6SL3330-7TE35-0AA.**		N	N	O	O	O 1)	O 1)					
SINAMICS S120 chassis format Active Line Modules, internal air cooling (up to 900 kW)		**6SL3330-7TE36-1AA. 6SL3330-7TE38-4AA. 6SL3330-7TE41-0AA. 6SL3330-7TE41-4AA.**		N	N	N	N	N	N					
SINAMICS S120 chassis format Active Interface Modules	See SINAMICS S120 drive system.	**6SL3300-7TE32-6AA. 6SL3300-7TE33-8AA. 6SL3300-7TE35-0AA.**		N	N	O	O	O	O					

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				802D sl - T/M	802D sl - G/N	840 DiE sl	840 Di sl	840DE sl	840 D sl	SINUMERIK Operate	HMI-Advanced	HMI-Embedded	ShopMill HMI	ShopTurn HMI
										Blank field: Function is not dependent on operating software				
SINAMICS S120 blocksize format Power Modules 1 AC 230 V, internal air cooling	No SINUMERIK Safety Integrated.	**6SL3210-1SB10-9UA0** **6SL3210-1SB12-3UA0** **6SL3210-1SB13-9UA0** **6SL3210-1SB10-9AA0** **6SL3210-1SB12-3AA0** **6SL3210-1SB13-9AA0**		N	N	O	O	O	O					
SINAMICS S120 blocksize format Power Modules 400 V 3 AC, internal air cooling	No SINUMERIK Safety Integrated.	**6SL3210-1SE11-3UA0** **6SL3210-1SE11-7UA0** **6SL3210-1SE12-2UA0** **6SL3210-1SE13-1UA0** **6SL3210-1SE14-1UA0** **6SL3210-1SE16-0UA0** **6SL3210-1SE17-7UA0** **6SL3210-1SE21-0UA0** **6SL3210-1SE21-8UA0** **6SL3210-1SE22-5UA0** **6SL3210-1SE23-2UA0** **6SL3210-1SE23-8UA0** **6SL3210-1SE24-5UA0** **6SL3210-1SE26-0UA0** **6SL3210-1SE27-5UA0** **6SL3210-1SE31-0UA0** **6SL3210-1SE31-1UA0** **6SL3210-1SE31-5UA0** **6SL3210-1SE31-8UA0** **6SL3210-1SE11-3AA0** **6SL3210-1SE11-7AA0** **6SL3210-1SE12-2AA0** **6SL3210-1SE13-1AA0** **6SL3210-1SE14-1AA0** **6SL3210-1SE16-0AA0** **6SL3210-1SE17-7AA0** **6SL3210-1SE21-0AA0** **6SL3210-1SE21-8AA0** **6SL3210-1SE22-5AA0** **6SL3210-1SE23-2AA0** **6SL3210-1SE23-8AA0** **6SL3210-1SE24-5AA0** **6SL3210-1SE26-0AA0** **6SL3210-1SE27-5AA0** **6SL3210-1SE31-0AA0** **6SL3210-1SE31-1AA0** **6SL3210-1SE31-5AA0** **6SL3210-1SE31-8AA0**		N	N	O	O	O	O					

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N = Not possible

	Notes (footnotes are applicable line by line)	Order-No. / Type (for complete Order-No., see notes)	Order code	SINUMERIK 802D sl/840Di sl/840D sl										
				802D sl - T/M	802D sl - G/N	840 DiE sl	840 Di sl	840DE sl	840 D sl	SINUMERIK Operate	HMI-Advanced	HMI-Embedded	ShopMill HMI	ShopTurn HMI
				Blank field: Function is not dependent on operating software										
SINAMICS S120 chassis format Power Modules, 400 V 3 AC, internal air cooling		**6SL3310-1TE32-1AA0 6SL3310-1TE32-6AA0 6SL3310-1TE33-1AA0 6SL3310-1TE33-8AA0 6SL3310-1TE35-0AA0**		N	N	N	N	N	N					
SINUMERIK Analog Drive Interface for 4 Axes, ADI 4	No PROFIBUS certification.	**6FC5211-0BA01-0AA3**		O	O	O	O	O	O					
Hydraulic axis (distributed) for connection as interpolating CNC axis	Coupled via PROFIBUS DP V2 with PROFIdrive V4.1 isochronous for electrical drives, e. g. IAC-R. No SINUMERIK Safety Integrated.	External drive.		N	N	O	O	O	O					
SIMODRIVE 611 universal HRS	No mixed operation with SINAMICS.	More information see catalog NC 60.		N	N	S	S	N	N					
SIMODRIVE 611 universal E HRS via PROFIBUS	No mixed operation with SINAMICS.	More information see catalog NC 60.		N	N	S	S	N	N					
SIMODRIVE POSMO A/SI/CD/CA	No mixed operation with SINAMICS.	More information see catalog NC 60.		N	N	S	S	N	N					
Synchronous motors														
• SIMOTICS M-PH8				N	N	O	O	O	O					
• SIMOTICS S-1FT7				N	N	O	O	O	O					
• SIMOTICS S-1FK7				O	O	O	O	O	O					
• SIMOTICS S-1FK7 with DQI				N	N	N	N	O	O					
• SIMOTICS L-1FN3				N	N	O	O	O	O					
• SIMOTICS L-1FN6				N	N	O	O	O	O					
• SIMOTICS T-1FW6				N	N	O	O	O	O					
• SIMOTICS M-1FE1				N	N	O	O	O	O					
• 2SP1 motor spindles				N	N	O	O	O	O					
Asynchronous motors														
• SIMOTICS M-1PH8				N	N	N	N	O	O					
• SIMOTICS M-1PH7				O	O	O	O	O	O					
• SIMOTICS M-1PH4				O	O	O	O	O	O					
• SIMOTICS M-1PH2				O	O	O	O	O	O					
Connectable measuring systems														
• Absolute/incremental encoder installed in 1FT7/1FK7/1PH7/1PH8	Integrated in motor via SINAMICS S120 Sensor Modules.			S	S	S	S	S	S					
• Resolver installed in 1FK7/1PH7	Integrated in motor via SINAMICS S120 Sensor Modules.			S	S	S	S	S	S					
• Incremental rotary measuring systems with RS 422 (TTL)	Via SINAMICS S120 Sensor Modules SMC30. [1] For analog spindle, setpoint via MCPA. [2] For analog axes via ADI 4.			S 1)2)	S 1)2)	S 2)	S 2)	S	S					
• Linear scale LMS with sin/cos 1 Vpp	Via SINAMICS S120 Sensor Modules SMC20/SME20.			S	S	S	S	S	S					
• Rotary measuring systems with sin/cos 1 Vpp	Via SINAMICS S120 Sensor Modules SMC20/SME20.			S	S	S	S	S	S					

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				802D sl - T/M	802D sl - G/N	840 DiE sl	840 Di sl	840DE sl	840 D sl	SINUMERIK Operate	HMI-Advanced	HMI-Embedded	ShopMill HMI	ShopTurn HMI
• Linear scale LMS with distance-coded reference marks	Via SINAMICS S120 Sensor Modules SMC20/SME20.			S	S	S	S	S	S					
• Rotary measuring systems with distance-coded reference marks	Via SINAMICS S120 Sensor Modules SMC20/SME20.			S	S	S	S	S	S					
• Linear scale LMS with EnDat 2.1	Via SINAMICS S120 Sensor Modules SMC20/SME25.			S	S	S	S	S	S					
• Rotary measuring systems with EnDat 2.1	Via SINAMICS S120 Sensor Modules SMC20/SME25.			S	S	S	S	S	S					
• Absolute encoder with SSI interface	For analog axes via ADI 4.			N	N	S	S	S	S					
• Resolver as external machine encoder	Via SINAMICS S120 Sensor Modules SMC10.			N	N	S	S	S	S					
• Absolut encoder with DRIVE-CLiQ interface	Via SINAMICS S120 NCU SW version 2.6 and higher.			N	N	N	N	S	S					
Drive functions														
Closed-loop control														
• Servo control				S	S	S	S	S	S					
• Vector control				N	N	N	N	N	N					
• Vector *V/f* control				N	N	N	N	N	N					
• Combination of servo/vector *V/f* on a Control Unit				N	N	N	N	N	N					
• Setting the pulse frequency grid in fine steps (4 kHz, 8 kHz)				N	N	N	N	N	N					
• Sin-wave filter				N	N	N	N	N	N					
• Units changeover US/SI				N	N	N	N	N	N					
• Direction reversal without changing the setpoint				N	N	N	N	N	N					
• Technology controller				N	N	N	N	N	N					
• *kT* estimator				N	N	N	N	N	N					
• *kT* (iq) characteristic				N	N	S	S	S	S					
• Rotor/pole position identification saturation-based/motion-based				N	N	S	S	S	S					
• Edge modulation				N	N	N	N	N	N					
• Motor data identification stationary/rotating				N	N	S	S	S	S					
• Flux reduction for asynchronous motors (induction motors)				N	N	N	N	S	S					
Modular machine concept (sub-topologies)														
• Parking axis/encoder				N	N	S	S	S	S					
Brakes														
• Braking signal, basic/extended				S	S	S	S	S	S					
• Armature short-circuit brake, internal				N	N	N	N	N	N					
• Armature short-circuit brake, external				N	N	N	N	S	S					
• DC brake				N	N	N	N	N	N					
Voltage protection for SIMOTICS M-1FE1/-1PH8/2SP1														
• Externally via VPM module	See Synchronous motors.			N	N	O	O	O	O					
Full hub functionality DMC20 – Sensor Module Integrated with automatic commissioning behind hub module				N	N	S	S	S	S					
Motor/winding switchover				N	N	N	N	N	N					
Suspended axis/electronic conterweight				S	S	S	S	S	S					

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Order-No. / Order code

Type
(for complete Order-No., see notes)

	SINUMERIK 802D sl/840Di sl/840D sl						Blank field: Function is not dependent on operating software				
	802D sl - T/M	802D sl - G/N	840 DiE sl	840 Di sl	840DE sl	840 D sl	SINUMERIK Operate	HMI-Advanced	HMI-Embedded	ShopMill HMI	ShopTurn HMI
Dynamic energy management (DC link voltage management)	S	S	S	S	S	S					
Runtime meter	N	N	S	S	S	S					
I^2t monitoring for motors	N	N	N	N	S	S					
Changing reference parameters/scaling	S	S	S	S	S	S					
Automatic restart mechanism (servo/infeed)	N	N	N	N	N	N					
Technology function: friction characteristic curve	N	N	N	N	N	N					
Position tracking	N	N	N	N	S	S					
Drive Control Chart DCC	N	N	N	N	N	N					
Drive Based Open Architecture	N	N	N	N	N	N					
Basic positioner	N	N	N	N	N	N					
2 command data sets	N	N	N	N	N	N					
Parallel connection of Motor Modules	N	N	N	N	N	N					
200 V 3 AC possible for booksize/blocksize modules	N	N	N	N	S	S					
Maximum configuration (valid for standard PROFIBUS DP cycle)											
• Axes/spindles for current/speed controller cycle of 125 µs	4	4	N	N	31	31					
• Axis/spindles for current/speed controller cycle of 62,5 µs	N	N	N	N	11	11					
• Axes/spindles per NCU/NX for current/ speed controller cycle of 125 µs	N	N	N	N	6	6					
• Axes/spindles for NCU/NX for current/ speed controller 62,5 µs	N	N	N	N	2	2					
• Motor measuring systems and direct measuring systems per NCU/NX for current/speed controller cycle of 125 µs	N	N	N	N	9	9					
• SINAMICS S120 chassis format Motor Modules per NCU/NX	N	N	N	N	2	2					
Current/speed controller cycle											
• Minimum for SINAMICS S120 booksize format	N	N			62,5 µs	62,5 µs					
• Maximum for SINAMICS S120 chassis format	N	N			125 µs	125 µs					
• Maximum	N	N			250 µs	250 µs					
PROFIBUS DP cycle (corresponds to FIPO cycle)											
• Minimum	1,5 ms	1,5 ms			0,5 ms	0,5 ms					
Maximum number											
• Drive data sets					32	32					
• Motor data sets					8	8					
• Encoder data sets					8	8					
Axis functions											
Traversing range ± 9 decades	S	S	S	S	S	S					
Rotary axis, continuously turning	S [1)]	S	S	S	S	S					
Velocity, max. 300 m/s (984 ft/s)	S	S	S	S	S	S					
Acceleration with jerk limitation	S	S	S	S	S	S					
Programmable acceleration	S	S	S	S	S	S					
Follow-up mode	S	S	S	S	S	S					
Measuring system 1 and 2, selectable	N	N	S	S	S	S					
Feedrate interpolation	N	N	S	S	S	S					

[1)] With plus and pro versions.

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				802D sl - T/M	802D sl - G/N	840 DiE sl	840 Di sl	840DE sl	840 D sl	SINUMERIK Operate	HMI-Advanced	HMI-Embedded	ShopMill HMI	ShopTurn HMI
Separate path feed for corners and chamfers				S	S	S	S	S	S					
Travel to fixed stop	1) With plus and pro versions.			S 1)	S	S	S	S	S					
Travel to fixed stop with Force Control		6FC5800-0AM01-0YB0	M01	N	N	O	O	O	O					
Analog axis	With ADI 4.			N	N	S	S	S	S					
Setpoint exchange		6FC5800-0AM05-0YB0	M05	N	N	N	N	O	O					
Tangential control		6FC5800-0AM06-0YB0	M06	N	N	O	O	O	O					
Position switching signals/cam controller:	1) Position switching signals only.	6FC5800-0AM07-0YB0	M07	S 1)	S 1)	O	O	O	O					
• Max. number of pairs				8	8	16	16	16	16					
Axis container	SW version 2.6 and higher within 31 axes.			N	N	N	N	S	S					
Advanced Position Control APC		6FC5800-0AM13-0YB0	M13	N	N	N	N	O	O					
Spindle functions														
Analog spindle speed	1) With MCPA. 2) With ADI 4.			S 1)	S 1)	S 2)	S 2)	N	N					
Digital spindle speed				S	S	S	S	S	S					
Spindle speed, max. programmable value range: 10^6 ... 0,0001 (display: ±999999999.9999)				S	S	S	S	S	S					
5 gear stages				S	S	S	S	S	S					
Automatic gear stage selection				S	S	S	S	S	S					
Oriented spindle stop				S	S	S	S	S	S					
Spindle speed limitation (min./max.)				S	S	S	S	S	S					
Constand cutting rate				S	S	S	S	S	S					
Spindle control via PLC (positioning, oscillation)	1) With plus and pro versions.			S	S	S	S	S	S					
Changeover to axis mode	1) With plus and pro versions.			S 1)	S	S	S	S	S					
Axis synchronization on-the-fly				N	N	S	S	S	S					
Thread run-in and run-out programmable				S	S	S	S	S	S					
Thread cutting with constant or variable pitch				S	S	S	S	S	S					
Tapping with compensating chuck/rigid tapping				S	S	S	S	S	S					
Interpolations														
Floating point accuaracy (80 bit floating point accuracy)				S	S	S	S	S	S					
Linear interpolating axes	1) With value version: 3.			S 4 1)	S 4	S 4	S 4	S 4	S 4					
• Maximum	1) With value version: 3.			4 1)	4	4	12	4	12					
Circle via center point and end point				S	S	S	S	S	S					
Circle via interpolation point				S	S	S	S	S	S					
Helical interpolation	1) With value version: 2D+1.			2D+2 1)	2D+2	2D+2	2D+6	2D+2	2D+6					
Universal interpolator NURBS (non uniform rational B-splines)				N	N	S	S	S	S					
Continous-path mode with programmable rounding clearance				N	N	S	S	S	S					
Multi-axis interpolation (> 4 interpolating axes)		6FC5800-0AM15-0YB0	M15	N	N	N	O	N	O					
Motion control: Advanced Surface		6FC5800-0AS07-0YB0	S07	N	N	N	N	O	O	O	O	N	N	N

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				802D sl - T/M	802D sl - G/N	840 DiE sl	840 Di sl	840DE sl	840 D sl	Blank field: Function is not dependent on operating software SINUMERIK Operate	HMI-Advanced	HMI-Embedded	ShopMill HMI	ShopTurn HMI
3-axis compressor	SW version 2.6 and higher in basic version.			S	N	N	N	S	S					
5-axis compressor	SW version 2.6 and higher in basic version.			N	N	N	N	S	S					
Spline interpolation (A-, B- and C splines)	SW version 2.6 and higher.	6FC5800-0AS16-0YB0	S16	S	N	N	N	O	O					
Spline interpolation (A-, B- and C splines/compressor) for 3-axis machining	Up to SW version 2.5.	6FC5800-0AM16-0YB0	M16	S	N	O	O	O	O					
Spline interpolation (A-, B- and C splines/compressor) for 5-axis machining	Up to SW version 2.5.	6FC5800-0AM17-0YB0	M17	N	N	O	O	O	O					
Polynomial interpolation		6FC5800-0AM18-0YB0	M18	N	N	O	O	O	O					
Involute interpolation		6FC5800-0AM21-0YB0	M21	N	N	O	O	O	O					
Continue machining at the contour (retrace support)	Precondition: Loadable compile cycle and cross-mode actions M43.	6FC5800-0AM24-0YB0	M24	N	N	O	O	O	O					
Crank interpolation CRIP	Precondition: Loadable compile cycle.	6FC5800-0AN04-0YB0	–	N	N	N	O	N	O	O	O	O	N	N
Couplings														
TRAIL coupled-motion axes				N	N	S	S	S	S					
Synchronous spindle/multi-edge turning COUP		6FC5800-0AM14-0YB0	M14	N	N	O	O	O	O					
Axial coupling in the machine coordinate system MCSC	Precondition: Loadable compile cycle.	6FC5800-0AM23-0YB0	M23	N	N	N	O	N	O					
Master value coupling and curve table interpolation LEAD	1) With restricted functionality, see export versions.	6FC5800-0AM20-0YB0	M20	N	N	O 1)	O	O 1)	O					
Electronic gear EG	1) With restricted functionality, see export versions.	6FC5800-0AM22-0YB0	M22	N	N	O 1)	O	O 1)	O					
Pair of synchronized (gantry axis) Max. number		6FC5800-0AM02-0YB0	M02	O 1	O 1	O 8	O 8	O 8	O 8					
Master/slave for drives		6FC5800-0AM03-0YB0	M03	O	O	O	O	O	O					
Generic couplings CP														
Generic coupling Standard, CP-Standard														
• 4 axis pairs in simultaneous coupled motion				N	N	S	S	S	S	S	S	S	N	N
Generic coupling Static, CP-Static		6FC5800-0AM75-0YB0	M75											
• 1 x simple synchronous spindle coupling ratio 1:1				N	N	N	N	O	O	O	O	O	N	N
Generic coupling Basic, CP-Basic		6FC5800-0AM72-0YB0	M72											
• 4 axis pairs in simultaneous coupled motion and • 1 x synchronous spindle/mult-edge turning or master value coupling/curve table interpolation or axial coupling in the machine coordinate system	1) With restricted functionality, see export versions.			N	N	O 1)	O	O 1)	O	O	O	O	N	N
Generic coupling Comfort, CP-Comfort		6FC5800-0AM73-0YB0	M73											

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				802D sl - T/M	802D sl - G/N	840 DiE sl	840 Di sl	840DE sl	840 D sl	SINUMERIK Operate	HMI-Advanced	HMI-Embedded	ShopMill HMI	ShopTurn HMI
										Blank field: Function is not dependent on operating software				
• 4 axis pairs in simultaneous coupled motion and • 4 x synchronous spindle/multi-edge turning and/or master value coupling/curbe table interpolation and/or axial coupling in the machine coordinate system and • 1 x electronic gear for 3 leading axes (without curve table, without cascading)	1) With restricted functionality, see export versions.			N	N	O 1)	O	O 1)	O	O	O	O	N	N
Generic coupling Expert, CP-Expert		6FC5800-0AM74-0YB0	M74											
• 8 axis pairs in simultaneous coupled motion and • 8 x synchronous spindle/multi-edge turning and/or master value coupling/curve table interpolation and/or axial coupling in the machine coordinate system and • 8 x electronic gear for 3 leading axes (with curve tables, with cascading) • 5 x electronic gear for 5 leading axes (with curve tables, with cascading)	1) With restricted functionality, see export versions. 2) Precondition: NCU 720.2/NCU 730.2.			N	N	O 1)	O	O 1)2)	O 2)	O	O	O	N	N
Compensation of a forced machanical coupling AXCO	Precondition: Loadable compile cycle.	6FC5800-0AM81-0YB0	M81	N	N	N	O	N	O	O		N	N	N
Transformation reduntante axes on workpiece RDCC	Precondition: Loadable compile cycle.	6FC5800-0AN62-0YB0	N26	N	N	N	N	N	O	O		N	N	N
Transformations														
Cartesian point-to-point (PTP) travel				N	S	S	S	S	S					
TRANSMIT and cylinder surface transformation	1) With plus and pro versions.	6FC5800-0AM27-0YB0	M27	S 1)	N	O	O	O	O					
Inclined axis		6FC5800-0AM28-0YB0	M28	N	S	O	O	O	O					
Concatenated transformations (inclined axis TRAANG after TRAORI/ cardan millhead/TRANSMIT/TRACYL)				N	N	S	S	S	S					
Transformation package for handling RCTRA	Precondition: Loadable compile cycle.	6FC5800-0AM31-0YB0	M31	N	N	N	O	N	O					
Transformation robotics extended ROBX	Precondition: Loadable compile cycle.	6FC5800-0AN54-0YB0	N54	N	N	N	O	N	O					
Generic transformation	Precondition: Machining package 5 axes or machining package milling.			N	N	N	S	N	S					
Transformation DOPPELTRANSMIT 2TRA	Precondition: Loadable compile cycle.	6FC5800-0AM25-0YB0	M25	N	N	N	N	N	O					
Transformation for pantograph kinematics 2 axes SCIS	Precondition: Loadable compile cycle.	6FC5800-0AM51-0YB0	M51	N	N	N	N	N	O					
3-axis transformation PACO for parallel kinematics (1st channel)	Precondition: Loadable compile cycle.	6FC5800-0AM44-0YB0	–	N	N	N	N	N	O					
Transformation TRIPOD HYBRID basis, 5 axes, THYK	Precondition: Loadable compile cycle.	6FC5800-0AN36-0YB0	N36	N	N	N	O	N	O					
Double generic transformation DGEN	Precondition: Loadable compile cycle.	6FC5800-0AN34-0YB0	N34	N	N	N	O	N	O					

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				802D sl - T/M	802D sl - G/N	840 DiE sl	840 Di sl	840DE sl	840 D sl	SINUMERIK Operate	HMI-Advanced	HMI-Embedded	ShopMill HMI	ShopTurn HMI
Data backup with Ghost (Backup/Restore) on hard disk/network	[1] On PCU 50.			N	N	S	S	F	F	S [1]	S	N	S [1]	S [1]
Data backup for NCU CF card (Backup/Restore) on memory stick or via network	[1] With pro version.			S [1]	S [1]	N	N	S	S					
DNC – Direct Numeric Control:	See HMI software for CNC controls – MCIS software.													
• DNC Machine CNC program transfer	[1] On PCU 50.	**6FC5800-0AP40-0YB0** **6FC6000-0AC00-0AA8** **6FC6000-0AC0. - .AA8** **6FC6000-0AC0. - .AE0** **6FC6000-0AC00-0AT7** **6FC6000-0AC0. - .AT7**	**P40**	N	N	V	V	F	F	N	O	N	O [1]	O [1]
• DNC Cell CNC program management		**6FC6000-0BF00-0AB0** **6FC6000-0BC00-0AA0** **6FC6000-0BC0. - .AA0** **6FC6000-0BC0. - .AE0**		N	N	O	O	O	O	N				
• DNC Plant CNC programm management		**6FC6000-0CF00-0AB0** **6FC6000-0CC00-0AA0** **6FC6000-0CC0. - .AA0**		N	N	O	O	O	O	N				
• DNC HMI Additional PC user interface		**6FC6000-0DF00-0AB0**		N	N	O	O	O	O					
• DNC IFC SINUMERIK CNC program transfer via network on the control	[1] On PCU 50.	**6FC5800-0AP41-0YB0**	**P41**	N	N	V	V	F	F	N	O	N	O [1]	O [1]
• DNC IFC Serial Connection for serial CNC	[1] On PCU 50.	**6FC6000-0FF00-0AB0**		N	N	V	V	F	F	N	O	N	O [1]	O [1]
• DNC IFC Dialog Option for serial CNC	[1] On PCU 50.	**6FC6000-0GF00-0AB0**		N	N	V	V	F	F	N	O	N	O [1]	O [1]
• DNC IFC Filesystem Connection for network-capable CNC machines	[1] On PCU 50.	**6FC6000-0KF00-0AB0**		N	N	V	V	F	F	N	O	N	O [1]	O [1]
• DNC Compare CNC program comparison	[1] On PCU 50.	**6FC6000-0HF00-0AB0**		N	N	V	V	F	F	N	O	N	O [1]	O [1]
RPC SINUMERIK:	See HMI software for CNC controls – MCIS software.													
• RPC SINUMERIK Data exchange between CNC and host computer (computer link)	[1] On PCU 50.	**6FC5800-0AP50-0YB0** **6FC6000-7AC00-0AA8** **6FC6000-7AC0. - .AA8** **6FC6000-7AC0. - .AE0**	**P50**	N	N	V	V	F	F	N	O	N	O [1]	O [1]
ADDM – Automation Data Management:	See HMI software for CNC controls – MCIS software.													
• ADDM – Data Management Data management system	Precondition: SIMATIC STEP 7	**6BQ3030-1AA00-3AD0** **6BQ3030-1AA10-0AD0** **6BQ3030-1AA20-1AC0** **6BQ3030-1AA30-3AD0** **6BQ3030-1AA70-3AD0**		N	N	O	O	O	O					

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S = Standard (Basic version)
O = Option
F = Function is dependent on operating software
V = Precondition: HMI-Advanced operating software
N = Not possible

	Notes (footnotes are applicable line by line)	Order-No. / Type (for complete Order-No., see notes)	Order code	SINUMERIK 802D sl/840Di sl/840D sl											
				802D sl - T/M	802D sl - G/N	840 DiE sl	840 Di sl	840DE sl	840 D sl	SINUMERIK Operate	HMI-Advanced	HMI-Embedded	ShopMill HMI	ShopTurn HMI
										Blank field: Function is not dependent on operating software				
Commissioning trace (drive optimization without an additional oscilloscope)	1) With PCU 50.			N	N	V	V	F	F	N	S	N	S 1)	S 1)
Series start-up via serial interface				S	S	N	N	N	N					
Series start-up via USB interface with storage medium, e.g. memory stick				N	N	V	V	S	S	S	S	S	S	S
Series start-up of network drive	1) Precondition: Management of network drives.			S	S	V	V	S 1)	S 1)	S 1)	S 1)	S 1)	S 1)	S 1)
Series start-up via programming of CF card offline or online	1) Precondition: Additional HMI user memory on CF card of the NCU.			S	S	N	N	S 1)	S 1)					
STARTER commissioning tool on PC/PG for SINAMICS S120	On Toolbox.			S	S	N	N	N	N					
Commissioning software on PC/PG for SINAMICS S120 (and SIMODRIVE 611 digital)	See HMI software for CNC controls – SinuCom.			N	N	O	O	O	O					
SINUMERIK 840Di/840Di sl Startup (SimoCom U and SinuCom NC)				N	N	S	S	N	N					
SINUMERIK 840Di sl Toolbox on hard disk of the PCU				N	N	S	S	N	N					
SINUMERIK 840Di sl/840D sl Toolbox on CNC system software DVD-ROM				N	N	O	O	O	O					
PLC example library (PLC templates)				S	S	N	N	N	N					
SinuCom Commissioning/service tools for SINUMERIK 840Di sl/840D sl	See HMI software for CNC controls – SinuCom.	**6FC5250-0AY00-0AG1** **6FC5250-0AY00-0AG0** **6FC5250-7AY00-.AG0** **6FC5250-0AY00-0AG2** **6FC5250-7AY00-.AG3**		N	N	S	S	O	O					
• SinuCom NC Dialog-based parameterization of machine data, management of series start-up files, integrated online help for functions, machine data and alarms				N	N	S	S	O	O					
• SinuCom NC Trace Dynamic recording of variables and signals - optimization without additional oscilloscope				N	N	S	S	O	O					
• SinuCom CFS Creation of an image for the CF card in Ext3 format				N	N	N	N	O	O					
• SinuCom ARC Reading, deleting, inserting and changing series start-up files				N	N	N	N	O	O					
SinuCom Update Agent for series production and software upgrades	See HMI software for CNC controls – SinuCom Update Agent.	**6FC5862-2YC00-0YA0** **6FC5862-2YC..-.YA0**		N	N	N	N	O	O					
SinuCom UPExpert				N	N	N	N	O	O					
SinuCom UPShield				N	N	N	N	O	O					

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