SIEMENS

Data sheet

6ES7718-0CB00-2DA3

SIMATIC Field PG M6 Comfort; i5-8400H (2.5 to 4.2 GHz; 4 kernels + hyperthreading; 8 MB Smart Cache); 15.6" display; Full HD (1920x 1080); WLAN 802.11ac & Bluetooth V5.0; DVD +/-RW; UHD Graphics 630; 1x 32 GB DDR4 SD-RAM SO-DIMM; 512 GB SSD SATA (2.5"); without S5 interface, without S5-EPROMMER Power cable with power plug: Europe; Keyboard: QWERTZ/QWERTY (Germany); 1 TB SSD NVME (M.2); Windows 10 IoT Enterprise 2021 LTSC, 64-bit; without USB flash drive (restore image; D&D) trial license STEP 7 Professional Combo; trial license WinCC Advanced Combo (TIA Portal & WinCC flexible), trial license Safety Advanced Combo (TIA Portal & Distributed Safety); version of the preinstalled software and licenses V18

Design of the programming device Display Design of display 15.6° full HD display in 16.9 format Resolution (pixels) + Horizontal image resolution • Vertical image resolution • Vertical image resolution • Vertical image resolution 1 920 pixel • Horizontal image resolution 1 980 pixel General features • Non-reflecting • Luminance 3 00 cdm² Backlighting • Type of backlighting • Design OWERTZ/OWERTY or AZERTY (French); 87 keys Touch operation • Integrated touch pad Yes; Clickpad Supply voltage Design of the power supply permissible range, lower limit (AC) permissible range, lower limit (AC) permissible range, lower limit (AC) permissible range, upper limit • permissible range, lower lim	General information	
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• Type of backlighting Control elements Keyboard fonts • Design QWERTZ/QWERTY or AZERTY (French); 87 keys Touch operation • Integrated touch pad Yes; Clickpad Supply voltage Design of the power supply External wide-range power supply; 3-pole permissible range, lower limit (AC) 100 V; ±10 %, sinusoidal permissible range, upper limit (AC) 240 V; ±10 %, sinusoidal Line frequency • permissible range, lower limit 63 Hz Processor Processor Processor type Intel Core i5-8400H (2.5 to 4.2 GHz, 4 cores and hyper-threading, 8 MB Smart Cache) or i7-8850H (2.6 to 4.3 GHz 6 cores and hyper-threading, 9 MB Smart Cache) or 17-8850H (2.6 to 4.3 GHz 6 cores and hyper-threading, 9 MB Smart Cache) Chipset Intel CM246 Hyper-threading Yes Turbo Boost Technology 2.0 Yes Graphics controller Intel® UHD Graphics 630 Drivos SSD Yes; Easy to replace • Memory capacity 256 Gbyte; Up to 2 TB SSD TPM Security Chip Yes; 2.0 (version for China without TPM) Momory Type of memory DDR4 SO-DIMM Work memory • Number of slots 2; can be equipped with 1x 8 GB, 1x 16 GB, 1x 32 GB or 2x32 GB Accumulator Replaceable Yes; Lithium-ion battery Capacity 8.25 Ah	Luminance	300 cd/m²
Control eloments Keyboard fonts • Design QWERTZ/QWERTY or AZERTY (French); 87 keys Touch operation • Integrated touch pad Yes; Clickpad Supply voltage Design of the power supply External wide-range power supply; 3-pole permissible range, lower limit (AC) 100 V; ±10 %, sinusoidal permissible range, upper limit (AC) 240 V; ±10 %, sinusoidal Line frequency • permissible range, upper limit • permissible range, upper limit 47 Hz • permissible range, upper limit 63 Hz Processor Processor type Intel Core i5-8400H (2.5 to 4.2 GHz, 4 cores and hyper-threading, 8 MB Smart Cache) or i7-8850H (2.6 to 4.3 GHz 6 cores and hyper-threading, 9 MB Smart Cache) or i7-8850H (2.6 to 4.3 GHz 6 cores and hyper-threading, 9 MB Smart Cache) or i7-8850H (2.6 to 4.3 GHz 6 cores and hyper-threading, 9 MB Smart Cache) or i7-8850H (2.6 to 4.3 GHz 6 cores and hyper-threading, 9 MB Smart Cache) or i7-8850H (2.6 to 4.3 GHz 6 cores and hyper-threading, 9 MB Smart Cache) or i7-8850H (2.6 to 4.3 GHz 6 cores and hyper-threading, 9 MB Smart Cache) or i7-8850H (2.6 to 4.3 GHz 6 cores and hyper-threading, 9 MB Smart Cache) or i7-8850H (2.6 to 4.3 GHz, 4 cores and hyper-threading, 9 MB Smart Cache) or i7-8850H (2.6 to 4.3 GHz, 4 cores and hyper-threading, 9 MB Smart Cache) or i7-8850H (2.6 to 4.3 GHz, 4 cores and hyper-threading, 9 MB Smart Cache) or i7-8850H (2.6 to 4.3 GHz, 4 cores and hyper-threading, 9 MB Smart Cache) or i7-8850H (2.6 to 4.2 GHz, 4 cores and hyper-threading, 9 MB Smart Cache) or i7-8850H (2.6 to 4.2 GHz, 4 cores and hyper-threading, 9	Backlighting	
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	permissible range, upper limit (AC)	240 V; ±10 %, sinusoidal
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Processor Processor type Intel Core i5-8400H (2.5 to 4.2 GHz, 4 cores and hyper-threading, 8 MB Smart Cache) or i7-8850H (2.6 to 4.3 GHz 6 cores and hyper-threading, 9 MB Smart Cache) Chipset Intel CM246 Hyper-threading Yes Turbo Boost Technology 2.0 Yes Graphic Graphic Graphics controller Intel® UHD Graphics 630 Prives SSD Yes; Easy to replace • Memory capacity 256 Gbyte; Up to 2 TB SSD TPM Security Chip Yes; 2.0 (version for China without TPM) Memory Type of memory • Number of slots 2; can be equipped with 1x 8 GB, 1x 16 GB, 1x 32 GB or 2x32 GB Accumulator Replaceable Yes; Lithium-ion battery Capacity 8.25 A-h	 permissible range, lower limit 	47 Hz
Processor type Intel Core i5-8400H (2.5 to 4.2 GHz, 4 cores and hyper-threading, 8 MB Smart Cache) or i7-8850H (2.6 to 4.3 GHz 6 cores and hyper-threading, 9 MB Smart Cache) Chipset Intel CM246 Hyper-threading Yes Turbo Boost Technology 2.0 Yes Graphic Graphic Graphics controller Intel® UHD Graphics 630 Prives SSD Yes; Easy to replace • Memory capacity TPM Security Chip Yes; 2.0 (version for China without TPM) Memory Type of memory • Number of slots Accumulator Replaceable Yes; Lithium-ion battery Capacity 8.25 A·h	 permissible range, upper limit 	63 Hz
Cache) or i7-8850H (2.6 to 4.3 GHz 6 cores and hyper-threading, 9 MB Smart Cache) Chipset Intel CM246 Hyper-threading Yes Turbo Boost Technology 2.0 Yes Graphic Graphic UHD Graphics 630 Drives SSD Yes; Easy to replace • Memory capacity 256 Gbyte; Up to 2 TB SSD TPM Security Chip Yes; 2.0 (version for China without TPM) Memory Type of memory DDR4 SO-DIMM Work memory • Number of slots 2; can be equipped with 1x 8 GB, 1x 16 GB, 1x 32 GB or 2x32 GB Accumulator Replaceable Yes; Lithium-ion battery Capacity 8.25 A-h	Processor	
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Graphic Graphics controller Drives SSD Memory capacity Type of memory Number of slots Accumulator Replaceable Graphics Intel® UHD Graphics 630 Ves; Easy to replace 256 Gbyte; Up to 2 TB SSD Yes; 2.0 (version for China without TPM) DDR4 SO-DIMM 2; can be equipped with 1x 8 GB, 1x 16 GB, 1x 32 GB or 2x32 GB Yes; Lithium-ion battery 8.25 A·h	Hyper-threading	Yes
Graphics controller Drives SSD Memory capacity TPM Security Chip Yes; Easy to replace Memory Yes; Easy to replace Yes; 2.6 Gbyte; Up to 2 TB SSD TPM Security Chip Yes; 2.0 (version for China without TPM) Memory Type of memory DDR4 SO-DIMM Work memory Number of slots 2; can be equipped with 1x 8 GB, 1x 16 GB, 1x 32 GB or 2x32 GB Accumulator Replaceable Yes; Lithium-ion battery Capacity 8.25 A·h	Turbo Boost Technology 2.0	Yes
Drives SSD Yes; Easy to replace ● Memory capacity 256 Gbyte; Up to 2 TB SSD TPM Security Chip Yes; 2.0 (version for China without TPM) Memory Type of memory DDR4 SO-DIMM Work memory ● Number of slots 2; can be equipped with 1x 8 GB, 1x 16 GB, 1x 32 GB or 2x32 GB Accumulator Replaceable Yes; Lithium-ion battery Capacity 8.25 A·h	Graphic	
SSD ✓ Memory capacity Example 256 Gbyte; Up to 2 TB SSD TPM Security Chip ✓ Yes; 2.0 (version for China without TPM) Memory Type of memory ✓ DDR4 SO-DIMM Work memory ✓ Number of slots Accumulator Replaceable ✓ Yes; Lithium-ion battery Example 256 Gbyte; Up to 2 TB SSD Yes; 2.0 (version for China without TPM) DDR4 SO-DIMM Yes; Can be equipped with 1x 8 GB, 1x 16 GB, 1x 32 GB or 2x32 GB Accumulator Replaceable ✓ Yes; Lithium-ion battery 8.25 A·h	Graphics controller	Intel® UHD Graphics 630
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TPM Security Chip Yes; 2.0 (version for China without TPM) Memory Type of memory ODR4 SO-DIMM Work memory Number of slots 2; can be equipped with 1x 8 GB, 1x 16 GB, 1x 32 GB or 2x32 GB Accumulator Replaceable Yes; Lithium-ion battery Capacity 8.25 A·h	SSD	Yes; Easy to replace
Memory Type of memory DDR4 SO-DIMM Work memory • Number of slots 2; can be equipped with 1x 8 GB, 1x 16 GB, 1x 32 GB or 2x32 GB Accumulator Replaceable Yes; Lithium-ion battery Capacity 8.25 A·h	 Memory capacity 	256 Gbyte; Up to 2 TB SSD
Type of memory Work memory ● Number of slots Accumulator Replaceable Capacity DDR4 SO-DIMM 2; can be equipped with 1x 8 GB, 1x 16 GB, 1x 32 GB or 2x32 GB Yes; Lithium-ion battery 8.25 A·h	TPM Security Chip	Yes; 2.0 (version for China without TPM)
Work memory ● Number of slots 2; can be equipped with 1x 8 GB, 1x 16 GB, 1x 32 GB or 2x32 GB Accumulator Replaceable Yes; Lithium-ion battery Capacity 8.25 A·h	Memory	
● Number of slots 2; can be equipped with 1x 8 GB, 1x 16 GB, 1x 32 GB or 2x32 GB Accumulator Replaceable Yes; Lithium-ion battery Capacity 8.25 A·h		DDR4 SO-DIMM
Accumulator Replaceable Yes; Lithium-ion battery Capacity 8.25 A·h	Work memory	
Replaceable Yes; Lithium-ion battery Capacity 8.25 A·h	Number of slots	2; can be equipped with 1x 8 GB, 1x 16 GB, 1x 32 GB or 2x32 GB
Capacity 8.25 A·h	Accumulator	
	Replaceable	Yes; Lithium-ion battery
Interfaces	Capacity	8.25 A·h
	Interfaces	

Number of interfesce PROFINIO PR	4. 4v DDOFIDUO DD / MDI O min Cult D analyst C C L D
Number of Interfaces PROFIBUS DP	1; 1x PROFIBUS DP / MPI; 9-pin Sub-D socket; 9.6 kBaud to 12 MBaud
Number of RS 232 interfaces Number of USB interfaces	1; 25-pin socket 4
Type A	3; 1x USB port incl. integrated charging function for USB devices (e.g.
	smartphone) - also with device switched off
• Type C	1; USB 3.1 Gen. 2
Number of chip-card readers	1; Smart Card Reader (ISO/IEC 7816)
Bluetooth radio standard	Yes; V5.0
Multimedia card/SD card slot	2 in 1 (SDHC UHS-II, MMC)
Card reader for SIMATIC memory cards	SIMATIC memory cards (for S7-300/400), SMC (for S7-1x00), SIMATIC micro memory card (for S7-300/C7/ET 200) - including programming interfaces
Universal Audio Jack	Yes; Audio socket for 3.5 mm jack
Video interfaces	V
analog video signal (VGA) DV4.1	Yes; via adapter from DVI to VGA
DVI-I Display Port	Yes; 1x
DisplayPort Industrial 5th are at	Yes; 1x
Industrial Ethernet	Ov Ethornot (D14E)
Industrial Ethernet interface	2x Ethernet (RJ45)
— 100 Mbps	Yes
— 1000 Mbps	Yes
Wake on LAN IAMT (Intel Active Management Technology)	Yes
IAMT (Intel Active Management Technology)	Yes
WLAN	802.11ac
Type Interrupts/diagnostics/status information	002.11db
LED status display	Battery status, device status, access to HDD/DVD, access to SD/MMC,
LED status display	MPI/DP, S5 and S7 modules / Card Reader (except Smart Card Reader), Num Lock, Caps Lock, WLAN active
EMC	
Interference immunity against discharge of static electricity	
 Interference immunity against discharge of static electricity acc. to IEC 61000-4-2 	Yes; ±4 kV contact discharge acc. to IEC 61000-4-2, ESD; ±8 kV air discharge acc. to IEC 61000-4-2, ESD
Interference immunity to cable-borne interference	
Interference immunity on supply cables	±2 kV (according to IEC 61000-4-4, burst); ±1 kV (according to IEC 61000-4-5, surge pulse/line to line); ±2 kV (according to IEC 61000-4-5, surge pulse/line to ground)
Interference immunity on signal cables	±1 kV (according to IEC 61000-4-4, burst, length < 30 m); ±2 kV (according to IEC 61000-4-4, burst, length > 30 m); ±2 kV (according to IEC 61000-4-5, surge sym./line to ground, length > 30 m)
Standards, approvals, certificates	
CE mark	Yes
CSA approval	Yes
UL approval	Yes
DIN/ISO 9001	Yes
Ambient conditions	
Ambient temperature during operation	
• min.	5 °C; Max. 10 °C/h (no condensation)
• max.	40 °C; Max. 10 °C/h (no condensation)
Ambient temperature during storage/transportation	
• min.	-20 °C; Max. 20 °C/h (no condensation)
• max.	60 °C; Max. 20 °C/h (no condensation)
Relative humidity	
Operation, min.	5 %; At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-14
Operation, max.	85 %; At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-14
Vibrations	
 Operation, tested according to IEC 60068-2-6 	Yes
Shock testing	
 tested according to IEC 60068-2-27 	Yes
Operating systems	
Local language of operating system	Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese)
pre-installed operating system	

Preinstalled Preinstalled STEP 7 Professional (TIA Portal) STEP 7 Yes; software version: V16 STEP 7 Yes; Professional 2017 SR2 WinCC flexible Advanced 2008 WinCC Advanced (TIA Portal) STEP 5 Yes; Software version: SP5 Yes; Software version: V16 STEP 5 Yes; Optional; software version: STEP 5 V7.23 HF2 (incl. GRAPH 5/ill V7.15) Mechanics/material Material of housing metal Handle Yes; retractable Socket for Kensington lock Yes Tubber corner guards Yes Dimensions Width 385 mm Height 53 mm Depth 275 mm Weights Weight approx. 3.4 kg; incl. rechargeable battery Scope of supply Accumulator Yes Power supply Yes Backpack Yes SIMATIC Software Yes Recovery media Yes; Restore & Recovery Other free hotline Yes Made in Germany: development and production in Germany	Windows 10	Yes; Windows 10 Enterprise 64-bit
● STEP 7 Professional (TIA Portal) ● STEP 7 ● WinCC flexible Advanced 2008 ● WinCC Advanced (TIA Portal) ● STEP 5 ● WinCC Advanced (TIA Portal) ● STEP 5 ● WinCC Advanced (TIA Portal) ● STEP 5 Wes; software version: SP5 ▼es; software version: V16 ▼es; software version: STEP 5 V7.23 HF2 (incl. GRAPH 5/II V7.15) Mechanics/material	Software	
STEP 7 WinCC flexible Advanced 2008 WinCC Advanced (TIA Portal) STEP 5 WinCC Advanced (TIA Portal) STEP 5 Yes; software version: V16 Yes; Optional; software version: STEP 5 V7.23 HF2 (Incl. GRAPH 5/II V7.15) Mechanics/material Material of housing metal Handle Yes; retractable Socket for Kensington lock Yes rubber corner guards Yes Dimensions Width 385 mm Height 53 mm Depth 275 mm Weights Weight, approx. 3.4 kg; incl. rechargeable battery Scope of supply Accumulator Yes Power supply Yes Backpack SIMATIC Software Yes Recovery media Yes; Restore & Recovery Other free hotline Yes	Preinstalled	
WinCC flexible Advanced (TIA Portal) WinCC Advanced (TIA Portal) STEP 5 Yes; software version: STEP 5 V7.23 HF2 (incl. GRAPH 5/II V7.15) Wechanics/material Material of housing Metal Handle Yes; retractable Socket for Kensington lock Yes Tubber corner guards Width 385 mm Height 53 mm Depth 275 mm Weights Weight, approx. 3.4 kg; incl. rechargeable battery Scope of supply Accumulator Power supply Backpack SIMATIC Software Yes Power guards Yes Recovery media Yes; Restore & Recovery Other free hotline Yes	 STEP 7 Professional (TIA Portal) 	Yes; software version: V16
● WinCC Advanced (TIA Portal) ● STEP 5 Yes; software version: V16 Yes; Optional; software version: STEP 5 V7.23 HF2 (incl. GRAPH 5/II V7.15) Mechanics/material Material of housing metal Handle Yes; retractable Socket for Kensington lock Yes rubber corner guards Width 385 mm Height 53 mm Depth 275 mm Weights Weight, approx. Scope of supply Accumulator Yes Power supply Backpack SIMATIC Software Recovery media Yes Yes Potential Yes; software version: V16 Yes; optional; software version: V16 Yes; optional; software version: V16 Yes; retractable Yes Post optional; software version: V16 Yes Post optional; software version: V16 Yes Potential; software version: V16 Yes, optional; software version: V16 Yes, retractable Yes, retractable Yes Power supply Yes Simatic Software Yes Recovery media Yes; Restore & Recovery Other free hotline	• STEP 7	Yes; Professional 2017 SR2
◆ STEP 5 Yes; Optional; software version: STEP 5 V7.23 HF2 (incl. GRAPH 5/II V7.15) Mechanics/material Material of housing metal Handle Yes; retractable Socket for Kensington lock Yes rubber corner guards Yes Dimensions Width 385 mm Height 53 mm Depth 275 mm Weights Weight, approx. 3.4 kg; incl. rechargeable battery Scope of supply Accumulator Yes Power supply Yes Backpack Yes SIMATIC Software Yes Recovery media Yes Recovery media Yes Free hotline Yes	 WinCC flexible Advanced 2008 	Yes; Software version: SP5
Mechanics/material Material of housing metal Handle Yes; retractable Socket for Kensington lock Yes rubber corner guards Yes Dimensions Width 385 mm Height 53 mm Depth 275 mm Weights Weight, approx. 3.4 kg; incl. rechargeable battery Scope of supply Accumulator Yes Power supply Yes Backpack Yes SIMATIC Software Yes Recovery media Yes; Restore & Recovery Other Yes	 WinCC Advanced (TIA Portal) 	Yes; software version: V16
Material of housing metal Handle Yes; retractable Socket for Kensington lock Yes rubber corner guards Yes Dimensions Width 385 mm Height 53 mm Depth 275 mm Weights Weight, approx. 3.4 kg; incl. rechargeable battery Scope of supply Accumulator Yes Power supply Yes Backpack Yes SIMATIC Software Yes Recovery media Yes Fee hotline Metal Metal Metal Yes; retractable Yes 185 mm 185 mm 275 mm Weight, approx 3.4 kg; incl. rechargeable battery Yes Power supply Yes Recovery media Yes; Restore & Recovery	• STEP 5	Yes; Optional; software version: STEP 5 V7.23 HF2 (incl. GRAPH 5/II V7.15)
Handle Yes; retractable Socket for Kensington lock Yes rubber corner guards Yes Dimensions Width 385 mm Height 53 mm Depth 275 mm Weights Weight, approx. 3.4 kg; incl. rechargeable battery Scope of supply Accumulator Yes Power supply Yes Backpack Yes SIMATIC Software Yes Recovery media Yes; Restore & Recovery Other free hotline Yes	Mechanics/material	
Socket for Kensington lock rubber corner guards Ves Dimensions Width 385 mm Height 53 mm Depth 275 mm Weights Weight, approx. 3.4 kg; incl. rechargeable battery Scope of supply Accumulator Yes Power supply Yes Backpack Yes SIMATIC Software Yes Recovery media Yes; Restore & Recovery Other free hotline Yes	Material of housing	metal
rubber corner guards Pimensions Width 385 mm Height 53 mm Depth 275 mm Weights Weight, approx. 3.4 kg; incl. rechargeable battery Scope of supply Accumulator Yes Power supply Yes Backpack Yes SIMATIC Software Yes Recovery media Yes; Restore & Recovery Other free hotline Yes	Handle	Yes; retractable
Dimensions Width 385 mm Height 53 mm Depth 275 mm Weights Weight, approx. Scope of supply Yes Accumulator Yes Power supply Yes Backpack Yes SIMATIC Software Yes Recovery media Yes; Restore & Recovery Other Yes	Socket for Kensington lock	Yes
Width 385 mm Height 53 mm Depth 275 mm Weights Weight, approx. Scope of supply Yes Accumulator Yes Power supply Yes Backpack Yes SIMATIC Software Yes Recovery media Yes; Restore & Recovery Other Yes	rubber corner guards	Yes
Height 53 mm Depth 275 mm Weights Weight, approx. Weight, approx. 3.4 kg; incl. rechargeable battery Scope of supply Yes Accumulator Yes Power supply Yes Backpack Yes SIMATIC Software Yes Recovery media Yes; Restore & Recovery Other Yes	Dimensions	
Depth 275 mm Weights Weight, approx. 3.4 kg; incl. rechargeable battery Scope of supply Accumulator Yes Power supply Yes Backpack Yes SIMATIC Software Yes Recovery media Yes; Restore & Recovery Other free hotline Yes	Width	385 mm
Weights Weight, approx. 3.4 kg; incl. rechargeable battery Scope of supply Accumulator Yes Power supply Yes Backpack Yes SIMATIC Software Recovery media Yes; Restore & Recovery Other free hotline Yes	Height	53 mm
Weight, approx. Scope of supply Accumulator Power supply Backpack SIMATIC Software Recovery media Yes; Restore & Recovery Other free hotline 3.4 kg; incl. rechargeable battery Yes Yes Yes Yes Yes Recovery Recovery Yes Yes Yes Yes Yes Yes Yes Ye	Depth	275 mm
Scope of supply Accumulator Power supply Backpack SIMATIC Software Recovery media Yes; Restore & Recovery Other free hotline Yes	Weights	
Accumulator Yes Power supply Yes Backpack Yes SIMATIC Software Yes Recovery media Yes; Restore & Recovery Other Yes	Weight, approx.	3.4 kg; incl. rechargeable battery
Power supply Backpack Yes SIMATIC Software Yes Recovery media Yes; Restore & Recovery Other free hotline Yes	Scope of supply	
Backpack Yes SIMATIC Software Yes Recovery media Yes; Restore & Recovery Other free hotline Yes	Accumulator	Yes
SIMATIC Software Recovery media Yes; Restore & Recovery Other free hotline Yes	Power supply	Yes
Recovery media Yes; Restore & Recovery Other free hotline Yes	Backpack	Yes
Other Free hotline Yes	SIMATIC Software	Yes
free hotline Yes	Recovery media	Yes; Restore & Recovery
	Other	
Note: Made in Germany: development and production in Germany	free hotline	Yes
	Note:	Made in Germany: development and production in Germany

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