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# SIEMENS

## TRANSLINE

### Operating equipment release list

## Electrical system

for the component manufacturing  
of the MAN Truck & Bus SE,  
plant Nuremberg & plant Salzgitter,  
production area

Edition: June 1, 2022

Version: 2.0

Only for information,  
the German version is legally binding



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## History of Change

Edition	Date	Description
2.0	11 Jul 2022	<ul style="list-style-type: none"><li>• New central contact for Volkswagen Group Components</li><li>• Added SINUMERIK ONE NCUs 1740, 1750 and 1760</li><li>• Added Operator Panels and Handhelds for SINUMERIK ONE</li><li>• Added new Operating Panels and Handhelds for SINUMERIK 840D sl</li><li>• IPC427E with Windows 10 2019 LTSC replaces the predecessor type with Windows 10 2016 LTSB</li><li>• Added gigabit variants of the Managed Switches SCALANCE XC2xx</li><li>• Added PoE variants of the Managed Switches SCALANCE XC2xx</li><li>• Added SCALANCE Industrial Security Appliance SC622-2C and SC626-2C</li><li>• Changed Runtime software licenses to download variants</li></ul>
1.0	7 Jul 2020	<ul style="list-style-type: none"><li>• First edition, based on operating equipment release list TRANSLINE for Volkswagen Group Components, edition January 1, 2020</li></ul>



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## 1. Contacts

### 1.1 Central Contact for Volkswagen Group Components

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Mobile +49 (152) 54891887  
[christina.weisbach@siemens.com](mailto:christina.weisbach@siemens.com)

### 1.2 Further Contacts

You can find further technical contacts and the local Siemens contacts for each Powertrain factory in the Siemens-Volkswagen Powertrain Extranet under "Contacts".

### 1.3 Hotline and Customer Support

Siemens Industry Online Support	<a href="https://www.siemens.com/IndustryOnlineSupport">https://www.siemens.com/IndustryOnlineSupport</a>
TRANSLINE Support	<a href="mailto:transline-support.industry@siemens.com">transline-support.industry@siemens.com</a> Phone +49 (711) 6521-3068

### 1.4 Siemens-Volkswagen Powertrain Extranet

In the Siemens-Volkswagen Powertrain Extranet you can find information on standardization for Volkswagen Group Components Production.

Besides the Siemens elements of the Volkswagen Group Components Standard you can also find information on particular projects, as well as documentation and HMI Sample Projects.

Start page:  
<https://www.siemens.com/sfp-extranet/vw>

The Siemens-Volkswagen Powertrain Extranet is password-protected.  
To get access, please use the following link:

<https://www.siemens.com/sfp-extranet/register/vw>

Moreover, you can find the current operating equipment release lists under the following link, for which no personalized registration is needed:

<https://support.industry.siemens.com/cs/ww/en/view/109751391>



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## 2. Notes

### 2.1 General Remarks

The basis for the following operating equipment release list is the Lastenheft Elektrik and the operating equipment release list for component production of the MAN Truck & Bus SE, plant Nuremberg, in the particular current version. The respective requirements and restrictions have to be followed.

For increased energy efficiency, all energy-dissipating products (f.e. braking resistors) have been deleted from the operating equipment release list. The energy has to be recovered.

If you cannot find the suitable products in the operating equipment release list, clarification with the responsible electrical planning department is necessary

A mixture of different converter series should be avoided.

Example:

If SINAMICS S120 devices are already used, additionally only use further S120 devices (no SINAMICS G120 devices beside).

Generally, the original Siemens accessories have to be used. All supplements and accessories according to the catalog are additionally included in the standard.

The following information is a summary. In case of inconsistent information, the official Siemens order media (Industry Mall, catalog, etc.) contain the binding information.

### 3. Overview



#### 3.1 Drives

##### 3.1.1. SINAMICS S120


##### 3.1.1.1. Line Modules

Article description	Article number	Picture	Technical data	Link
S120 Smart Line Module 8.3A, 5kW (Usage is only allowed after clarifying with the responsible electrical planning department)	6SL3130-6AE15-0AB1		SINAMICS S120 SMART LINE MODULE INPUT: 3AC 380-480V, 50/60HZ OUTPUT: 600VDC, 8.3A, 5KW FRAME SIZE: BOOKSIZE INTERNAL AIR COOLING INCL. CONTROL VOLTAGE ADAPTER MODULES PAINTED	<a href="#">Industry Mall</a>
S120 Active Line Module 27A, 16kW	6SL3130-7TE21-6AA4		SINAMICS S120 ACTIVE LINE MODULE INPUT: 3-PH 380-480V, 50/60HZ OUTPUT: DC 600V, 27A, 16KW FRAME SIZE: BOOKSIZE INTERNE LUFTKUEHLUNG INKL. DRIVE-CLIQ LEITUNG	<a href="#">Industry Mall</a>
S120 Active Line Module 60A, 36kW	6SL3130-7TE23-6AA3		SINAMICS S120 ACTIVE LINE MODULE INPUT: 3AC 380-480V, 50/60HZ OUTPUT: DC 600V, 60A, 36KW FRAME SIZE: BOOKSIZE INTERNAL AIR COOLING INCL. DRIVE-CLIQ CABLE	<a href="#">Industry Mall</a>
S120 Active Line Module 92A, 55kW	6SL3130-7TE25-5AA3		SINAMICS S120 ACTIVE LINE MODULE INPUT: 3AC 380-480V, 50/60HZ OUTPUT: DC 600V, 92A, 55KW FRAME SIZE: BOOKSIZE INTERNAL AIR COOLING INCL. DRIVE-CLIQ CABLE	<a href="#">Industry Mall</a>






Article description	Article number	Picture	Technical data	Link
S120 Active Line Module 133A, 80kW	6SL3130-7TE28-0AA3		SINAMICS S120 ACTIVE LINE MODULE INPUT: 3AC 380-480V, 50/60HZ OUTPUT: DC 600V, 133A, 80KW FRAME SIZE: BOOKSIZE INTERNAL AIR COOLING INCL. DRIVE-CLIQ CABLE	<a href="#">Industry Mall</a>
S120 Active Line Module 200A, 120kW	6SL3130-7TE31-2AA3		SINAMICS S120 ACTIVE LINE MODULE INPUT: 3AC 380-480V, 50/60HZ OUTPUT: DC 600V, 200A, 120KW FRAME SIZE: BOOKSIZE INTERNAL AIR COOLING INCL. DRIVE-CLIQ CABLE	<a href="#">Industry Mall</a>

### 3.1.1.2. Motor Modules, 1-Axis Versions




Article description	Article number	Picture	Technical data	Link
S120 Single Motor Module 3A D-Type	6SL3120-1TE13-0AD0		SINAMICS S120 SINGLE MOTOR MODULE INPUT: DC 600V OUTPUT: 3-PH 400V, 3A FRAME SIZE: BOOKSIZE D-TYPE INTERNAL AIR COOLING OPTIMIZED PULSE SAMPLE AND SUPPORT OF THE EXTENDED SAFETY INTEGRATED FUNCTIONS INCL. DRIVE-CLIQ CABLE	<a href="#">Industry Mall</a>








Article description	Article number	Picture	Technical data	Link
S120 Single Motor Module 5A D-Type	6SL3120-1TE15-0AD0		SINAMICS S120 SINGLE MOTOR MODULE INPUT: DC 600V OUTPUT: 3-PH 400V, 5A FRAME SIZE: BOOKSIZE D-TYPE INTERNAL AIR COOLING OPTIMIZED PULSE SAMPLE AND SUPPORT OF THE EXTENDED SAFETY INTEGRATED FUNCTIONS INCL. DRIVE-CLIQ CABLE	<a href="#">Industry Mall</a>
S120 Single Motor Module 9A D-Type	6SL3120-1TE21-0AD0		SINAMICS S120 SINGLE MOTOR MODULE INPUT: DC 600V OUTPUT: 3-PH 400V, 9A FRAME SIZE: BOOKSIZE D-TYPE INTERNAL AIR COOLING OPTIMIZED PULSE SAMPLE AND SUPPORT OF THE EXTENDED SAFETY INTEGRATED FUNCTIONS INCL. DRIVE-CLIQ CABLE	<a href="#">Industry Mall</a>
S120 Single Motor Module 18A C-Type	6SL3120-1TE21-8AC0		SINAMICS S120 SINGLE MOTOR MODULE INPUT: DC 600V OUTPUT: 3AC 400V, 18A FRAME SIZE: BOOKSIZE C-TYPE INTERNAL AIR COOLING OPTIMIZED PULSE SAMPLE AND SUPPORT OF THE EXTENDED SAFETY INTEGRATED FUNCTIONS INCL. DRIVE-CLIQ CABLE	<a href="#">Industry Mall</a>





Article description	Article number	Picture	Technical data	Link
S120 Single Motor Module 18A D-Type	6SL3120-1TE21-8AD0		SINAMICS S120 SINGLE MOTOR MODULE INPUT: DC 600V OUTPUT: 3AC 400V, 18A FRAME SIZE: BOOKSIZE D-TYPE INTERNAL AIR COOLING OPTIMIZED PULSE SAMPLE AND SUPPORT OF THE EXTENDED SAFETY INTEGRATED FUNCTIONS INCL. DRIVE-CLIQ CABLE	<a href="#">Industry Mall</a>
S120 Single Motor Module 30A C-Type	6SL3120-1TE23-0AC0		SINAMICS S120 SINGLE MOTOR MODULE INPUT: DC 600V OUTPUT: 3AC 400V, 30A FRAME SIZE: BOOKSIZE C-TYPE INTERNAL AIR COOLING OPTIMIZED PULSE SAMPLE AND SUPPORT OF THE EXTENDED SAFETY INTEGRATED FUNCTIONS INCL. DRIVE-CLIQ CABLE	<a href="#">Industry Mall</a>
S120 Single Motor Module 30A D-Type	6SL3120-1TE23-0AD0		SINAMICS S120 SINGLE MOTOR MODULE INPUT: DC 600V OUTPUT: 3AC 400V, 30A FRAME SIZE: BOOKSIZE D-TYPE INTERNAL AIR COOLING OPTIMIZED PULSE SAMPLE AND SUPPORT OF THE EXTENDED SAFETY INTEGRATED FUNCTIONS INCL. DRIVE-CLIQ CABLE	<a href="#">Industry Mall</a>




Article description	Article number	Picture	Technical data	Link
S120 Single Motor Module 45A C-Type	6SL3120-1TE24-5AC0		SINAMICS S120 SINGLE MOTOR MODULE INPUT: DC 600V OUTPUT: 3AC 400V, 45A FRAME SIZE: BOOKSIZE C-TYPE INTERNAL AIR COOLING OPTIMIZED PULSE SAMPLE AND SUPPORT OF THE EXTENDED SAFETY INTEGRATED FUNCTIONS INCL. DRIVE-CLIQ CABLE	<a href="#">Industry Mall</a>
S120 Single Motor Module 60A C-Type	6SL3120-1TE26-0AC0		SINAMICS S120 SINGLE MOTOR MODULE INPUT: DC 600V OUTPUT: 3AC 400V, 60A FRAME SIZE: BOOKSIZE C-TYPE INTERNAL AIR COOLING OPTIMIZED PULSE SAMPLE AND SUPPORT OF THE EXTENDED SAFETY INTEGRATED FUNCTIONS INCL. DRIVE-CLIQ CABLE	<a href="#">Industry Mall</a>
S120 Single Motor Module 85A	6SL3120-1TE28-5AA3		SINAMICS S120 SINGLE MOTOR MODULE INPUT: DC 600V OUTPUT: 3AC 400V, 85A FRAME SIZE: BOOKSIZE INTERNAL AIR COOLING OPTIMIZED PULSE SAMPLE AND SUPPORT OF THE EXTENDED SAFETY INTEGRATED FUNCTIONS INCL. DRIVE-CLIQ CABLE	<a href="#">Industry Mall</a>






Article description	Article number	Picture	Technical data	Link
S120 Single Motor Module 132A	6SL3120-1TE31-3AA3		SINAMICS S120 SINGLE MOTOR MODULE INPUT: DC 600V OUTPUT: 3AC 400V, 132A FRAME SIZE: BOOKSIZE INTERNAL AIR COOLING OPTIMIZED PULSE SAMPLE AND SUPPORT OF THE EXTENDED SAFETY INTEGRATED FUNCTIONS INCL. DRIVE-CLIQ CABLE	<a href="#">Industry Mall</a>
S120 Single Motor Module 200A	6SL3120-1TE32-0AA4		SINAMICS S120 SINGLE MOTOR MODULE INPUT: DC 600V OUTPUT: 3AC 400V, 200A OUTPUT: at 8 kHz / 140A FRAME SIZE: BOOKSIZE INTERNAL AIR COOLING OPTIMIZED PULSE SAMPLE AND SUPPORT OF THE EXTENDED SAFETY INTEGRATED FUNCTIONS INCL. DRIVE-CLIQ CABLE	<a href="#">Industry Mall</a>


### 3.1.1.3. Motor Modules, 2-Axis Versions

Article description	Article number	Picture	Technical data	Link
S120 Double Motor Module 3A/3A D-Type	6SL3120-2TE13-0AD0		SINAMICS S120 DOUBLE MOTOR MODULE INPUT: DC 600V OUTPUT: 3AC 400V, 3A/3A FRAME SIZE: BOOKSIZE D-TYPE INTERNAL AIR COOLING OPTIMIZED PULSE SAMPLE AND SUPPORT OF THE EXTENDED SAFETY INTEGRATED FUNCTIONS INCL. DRIVE-CLIQ CABLE	<a href="#">Industry Mall</a>






Article description	Article number	Picture	Technical data	Link
S120 Double Motor Module 5A/5A D-Type	6SL3120-2TE15-0AD0		SINAMICS S120 DOUBLE MOTOR MODULE INPUT: DC 600V OUTPUT: 3AC 400V, 5A/5A FRAME SIZE: BOOKSIZE D-TYPE INTERNAL AIR COOLING OPTIMIZED PULSE SAMPLE AND SUPPORT OF THE EXTENDED SAFETY INTEGRATED FUNCTIONS INCL. DRIVE-CLIQ CABLE	<a href="#">Industry Mall</a>
S120 Double Motor Module 9A/9A D-Type	6SL3120-2TE21-0AD0		SINAMICS S120 DOUBLE MOTOR MODULE INPUT: DC 600V OUTPUT: 3-PH 400V, 9A/9A FRAME SIZE: BOOKSIZE D-TYPE INTERNAL AIR COOLING OPTIMIZED PULSE SAMPLE AND SUPPORT OF THE EXTENDED SAFETY INTEGRATED FUNCTIONS INCL. DRIVE-CLIQ CABLE	<a href="#">Industry Mall</a>
S120 Double Motor Module 18A/18A C-Type	6SL3120-2TE21-8AC0		SINAMICS S120 DOUBLE MOTOR MODULE INPUT: DC 600V OUTPUT: 3AC 400V, 18A/18A FRAME SIZE: BOOKSIZE C-TYPE INTERNAL AIR COOLING OPTIMIZED PULSE SAMPLE AND SUPPORT OF THE EXTENDED SAFETY INTEGRATED FUNCTIONS INCL. DRIVE-CLIQ CABLE	<a href="#">Industry Mall</a>




Article description	Article number	Picture	Technical data	Link
S120 Double Motor Module 18A/18A D-Type	6SL3120-2TE21-8AD0		SINAMICS S120 DOUBLE MOTOR MODULE INPUT: DC 600V OUTPUT: 3AC 400V, 18A/18A FRAME SIZE: BOOKSIZE D-TYPE INTERNAL AIR COOLING OPTIMIZED PULSE SAMPLE AND SUPPORT OF THE EXTENDED SAFETY INTEGRATED FUNCTIONS INCL. DRIVE-CLIQ CABLE	<a href="#">Industry Mall</a>



### 3.1.1.4. Control Units

Article description	Article number	Picture	Technical data	Link
S120 Control Unit CU320-2 PN (The Control Unit always has to be delivered with Basic Operator Panel BOP 20 and CompactFlash Card)	6SL3040-1MA01-0AA0		SINAMICS CONTROL UNIT CU320-2 PN WITHOUT COMPACT FLASH CARD	<a href="#">Industry Mall</a>
S120 Basic Operator Panel BOP 20	6SL3055-0AA00-4BA0		SINAMICS S120 BASIC OPERATOR PANEL BOP20 FOR ELECTRONIC CONTROLS TWO-LINE DISPLAY, 6 KEYS FOR PARAMETER SETTING AND DIAGNOSTIC INFORMATION SUITED FOR CONTROL UNITS CU305, CU310, CU320	<a href="#">Industry Mall</a>
840D sl Numeric Control Extension NX15.3	6SL3040-1NB00-0AA0		SINAMICS NUMERIC CONTR. EXTENSION NX15.3 EXTENSION DRIVE CONTROL FOR SINUMERIK 840 D SL SINUMERIK 828D up to 6 Axes	<a href="#">Industry Mall</a>








Article description	Article number	Picture	Technical data	Link
840D sl Numeric Control Extension NX10.3	6SL3040-1NC00-0AA0		SINAMICS Numeric Contr. Extension NX10.3 Extension Drive Control for SINUMERIK 840D SL and 828D up to 3 axes	<a href="#">Industry Mall</a>

### 3.1.1.5. Filter Modules and Line Reactors for Smart Line Modules

Article description	Article number	Picture	Technical data	Link
S120 Line Reactor for 5kW Smart Line Module (Usage is only allowed after clarifying with the responsible electrical planning department)	6SL3000-0CE15-0AA0		SINAMICS LINE REACTOR FOR 5 KW SMART LINE MODULE INPUT: 3- PH 380-480 V, 50/60 HZ	<a href="#">Industry Mall</a>
S120 Line Filter for 5kW Smart Line Module (Usage is only allowed after clarifying with the responsible electrical planning department)	6SL3000-0HE15-0AA0		SINAMICS LINE FILTER FOR 5 KW SMART LINE MODULE INPUT: 3- PH. 380-480 V 50/60 HZ	<a href="#">Industry Mall</a>

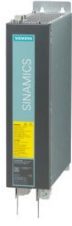






### 3.1.1.6. Filter Modules and AIM for Active Line Modules

Article description	Article number	Picture	Technical data	Link
S120 Basic Line Filter for 16kW Active Line Module	6SL3000-0BE21-6DA0		SINAMICS / SIMODRIVE 611 BASIC LINE FILTER FOR 16KW ACTIVE LINE MODULE AND 16KW SMART LINE MODULE AND 20KW BASIC LINE MODULE AND SINAMICS S120 COMBI INPUT: 3AC 380-480V, 50/60HZ PLEASE OBSERVE CONDITIONS OF USE!	<a href="#">Industry Mall</a>
S120 Basic Line Filter for 36kW Active Line Module	6SL3000-0BE23-6DA1		SINAMICS S120 BASIC LINE FILTER SUITABLE FOR 36 KW SMART LINE MODULE 36 KW ACTIVE LINE MODULE 40 KW BASIC LINE MODULE INPUT: 3PH 380-480V, 50/60HZ	<a href="#">Industry Mall</a>
S120 Basic Line Filter for 55kW Active Line Module	6SL3000-0BE25-5DA0		SINAMICS / SIMODRIVE 611 BASIC LINE FILTER FOR 55KW ACTIVE LINE MODULE INPUT: 3AC 380-480V, 50/60HZ PLEASE OBSERVE CONDITIONS OF USE!	<a href="#">Industry Mall</a>
S120 Basic Line Filter for 80kW Active Line Module	6SL3000-0BE28-0DA0		SINAMICS BASIC LINE FILTER FOR 80KW ACTIVE LINE MODULE INPUT: 3-PH 380-480V, 50/60HZ	<a href="#">Industry Mall</a>
S120 Basic Line Filter for 120kW Active Line Module	6SL3000-0BE31-2DA0		SINAMICS BASIC LINE FILTER FOR 100 KW BASIC LINE MODULE FOR 120 KW ACTIVE LINE MODULE INPUT: 3PH 380-480V, 50/60HZ	<a href="#">Industry Mall</a>








Article description	Article number	Picture	Technical data	Link
S120 Active Interface Module for 16kW Active Line Module	6SL3100-0BE21-6AB0		SINAMICS S120 ACTIVE INTERFACE MODULE FOR 16KW ACTIVE LINE MODULE INPUT: 3AC 380-480V, 50/60HZ FRAME SIZE: BOOKSIZE	<a href="#">Industry Mall</a>
S120 Active Interface Module for 36kW Active Line Module	6SL3100-0BE23-6AB0		SINAMICS S120 ACTIVE INTERFACE MODULE FOR 36KW ACTIVE LINE MODULE INPUT: 3AC 380-480V, 50/60HZ FRAME SIZE: BOOKSIZE	<a href="#">Industry Mall</a>
S120 Active Interface Module for 55kW Active Line Module	6SL3100-0BE25-5AB0		SINAMICS S120 ACTIVE INTERFACE MODULE FOR 55KW ACTIVE LINE MODULE INPUT: 3AC 380-480V, 50/60HZ	<a href="#">Industry Mall</a>
S120 Active Interface Module for 80kW Active Line Module	6SL3100-0BE28-0AB0		SINAMICS S120 ACTIVE INTERFACE MODULE FOR 80KW ACTIVE LINE MODULE INPUT: 3AC 380-480V, 50/60HZ	<a href="#">Industry Mall</a>
S120 Active Interface Module for 120kW Active Line Module	6SL3100-0BE31-2AB0		SINAMICS S120 ACTIVE INTERFACE MODULE FOR 120KW ACTIVE LINE MODULE INPUT: 3AC 380-480V, 50/60HZ	<a href="#">Industry Mall</a>



### 3.1.1.7. Supplementary Components

Article description	Article number	Picture	Technical data	Link
SINAMICS Voltage Sensing Module VSM10	6SL3053-0AA00-3AA1		SINAMICS VOLTAGE SENSING MODULE VSM10	<a href="#">Industry Mall</a>
S120 Sensor Module SMC20	6SL3055-0AA00-5BA3		SINAMICS S120 SENSOR MODULE SMC20 BOARD FOR EVALUATION OF INCREMENTAL ENCODER: SIN/COS 1VPP ABSOLUTE ENCODER: ENDAT WITHOUT DRIVE-CLIQ CABLE 30 MM WIDTH	<a href="#">Industry Mall</a>
S120 Sensor-Module SMC40	6SL3055-0AA00-5DA0		SINAMICS S120 SENSOR MODULE SMC40 BOARD FOR EVALUATION OF ENDAT 2.2 ENCODER 30 MM WIDTH	<a href="#">Industry Mall</a>
S120 Sensor-Module SME20	6SL3055-0AA00-5EA3		SINAMICS SENSOR MODULE SME20 INCREMENTAL ENCODER: SIN/COS 1VPP PROTECTION IP67 WITHOUT DRIVE-CLIQ CABLE	<a href="#">Industry Mall</a>
S120 Sensor-Module SME25	6SL3055-0AA00-5HA3		SINAMICS SENSOR MODULE SME25 ABSOLUTE ENCODER: ENDAT PROTECTION IP67	<a href="#">Industry Mall</a>
S120 Sensor-Module SME125	6SL3055-0AA00-5KA3		SINAMICS SENSOR MODULE SME125 ABSOLUTE ENCODER: ENDAT; PTC- and KTY-INPUTS WITH SECURE ELECTRICAL ISOLATION; DEGREE OF PROTECTION IP67; WITHOUT DRIVE-CLIQ CABLE	<a href="#">Industry Mall</a>



Article description	Article number	Picture	Technical data	Link
S120 Drive-CLiQ Hub Module DMC20	6SL3055-0AA00-6AA1		SINAMICS DRIVE-CLIQ HUB MODULE CABINET DMC20 WITHOUT DRIVE-CLIQ CABLE	<a href="#">Industry Mall</a>
S120 Capacitor Module	6SL3100-1CE14-0AA0		SINAMICS CAPACITOR MODULE INPUT: 600 V DC 4000 UF	<a href="#">Industry Mall</a>
S120 Control Supply Module	6SL3100-1DE22-0AA1		SINAMICS CONTROL SUPPLY MODULE INPUT: 600 V DC/3-PH. 380-480 V 50/60 HZ OUTPUT: 24..28.V DC +/-2%, 20 A	<a href="#">Industry Mall</a>



### 3.1.2. SINAMICS G120

**Note:**

At least one Basic Operator Panel BOP-2 must be available for each control cabinet field.

#### 3.1.2.1. Control Units


**Note:**

Zu jeder Control Unit muss eine SD-Karte mit der Firmware und den benötigten Lizenzen mitgeliefert werden.


Article number 6SL3054-7xx00-2BA0: SINAMICS SD Card including Firmware.  
The most recent available SINAMICS Firmware Version has to be used.

The following options can be added to the article number of the SD Card:

Option	Description
-Z +E01	EPos License on SD Card for activating the EPos function for the CU250S-2 PN
-Z +F01	Safety License on SD Card for activating the Safety Extended Functions for the CU250S-2 PN
-Z +E01+F01	EPos and Safety License on SD Card for activating both functions for the CU250S-2 PN

Article description	Article number	Picture	Technical data	Link
G120 Control Unit CU240E-2 PN	6SL3244-0BB12-1FA0		SINAMICS G120 CONTROL UNIT CU240E-2 PN E-TYPE SAFETY INTEGRATED STO PROFINET 6DI, 3DO, 2AI, 2AO, MAX 1F-DI PTC/KTY INTERFACE USB- AND SD/MMC-INTERFACE PROTECTION IP20 AMBIENT TEMP 0 TO +50 DEG C WITHOUT POWER MODULE AND PANEL	<a href="#">Industry Mall</a>





Article description	Article number	Picture	Technical data	Link
G120 Control Unit CU250S-2 PN	6SL3246-0BA22-1FA0		SINAMICS G120 CONTROL UNIT CU250S-2 PN INTEGRIERT PROFINET SUPPORT OF VECTOR CONTROL, EASY POSITIONING EPOS VIA EXTENDED FUNCTION LICENSE 4 CONFIGURABLE DI/DO, 6 DI (3 F-DI), 5 DI, 3 DO (1 F-DO), 2 AI, 2 AO SAFETY INTEGRATED STO, SBC, SS1 FURTHER SAFETY FUNCTIONS VIA EXTENDED SAFETY LICENSE ENCODER: D-CLIQ + HTL/TTL/SSI, RESOLVER/HTL VIA TERMINAL PROTECTION IP20 USB- AND SD/MMC-INTERFACE	<a href="#">Industry Mall</a>





### 3.1.2.2. Power Modules

**Note:**



The power specifications are based on high overload capability (High Overload HO). For applications which don't need high overload, the Power Module can be selected based on lower overload capabilities (select on power level lower, please refer to Siemens Catalog D31).

Article description	Article number	Picture	Technical data	Link
G120 Power Module PM240-2 0.37kW	6SL3210-1PE11-8AL1		SINAMICS Power Module PM240-2 with integrated Class A filter with integrated braking chopper 380-480 V 3 AC +10/-10% 47-63 Hz Power high overload: 0.37kW at 200% 3s, 150% 57s, 100% 240 s; Ambient temperature -10 to +50 °C; power low overload: 0.55kW at 150% 3s, 110% 57s, 100% 240 s; Ambient temperature -10 to +40 °C 196x 73x 165 (HxWxD), FSA Degree of protection IP20 without Control Unit and operating unit Released as of CU firmware version V4.6	<a href="#">Industry Mall</a>
G120 Power Module PM240-2 0.75kW	6SL3210-1PE13-2AL1		SINAMICS Power Module PM240-2 with integrated Class A filter with integrated braking chopper 380-480 V 3 AC +10/-10% 47-63 Hz Power high overload: 0.75kW at 200% 3s, 150% 57s, 100% 240 s; Ambient temperature -10 to +50 °C; power low overload: 1.1kW at 150% 3s, 110% 57s, 100% 240 s; Ambient temperature -10 to +40 °C 196x 73x 165 (HxWxD), FSA Degree of protection IP20 without Control Unit and operating unit Released as of CU firmware version V4.6	<a href="#">Industry Mall</a>





Article description	Article number	Picture	Technical data	Link
G120 Power Module PM240-2 1.5kW	6SL3210-1PE16-1AL1		<p>SINAMICS Power Module PM240-2 with integrated Class A filter with integrated braking chopper 380-480 V 3 AC +10/-10% 47-63 Hz</p> <p>Power high overload: 1.5kW at 200% 3s, 150% 57s, 100% 240 s;</p> <p>Ambient temperature - 10 to +50 °C; power low overload: 2.2kW at 150% 3s, 110% 57s, 100% 240 s; Ambient temperature -10 to +40 °C 196x 73x 165 (HxWxD), FSA</p> <p>Degree of protection IP20 without Control Unit and operating unit</p> <p>Released as of CU firmware version V4.6</p>	<a href="#">Industry Mall</a>
G120 Power Module PM240-2 3kW	6SL3210-1PE21-1AL0		<p>SINAMICS POWER MODULE PM240-2 WITH BUILT IN CL. A FILTER WITH BUILT IN BRAKING CHOPPER 3AC380-480V +10/-10% 47-63HZ OUTPUT HIGH OVERLOAD: 3KW FOR 200% 3S,150% 57S,100% 240S</p> <p>AMBIENT TEMP -10 TO +50 DEG C OUTPUT LOW OVERLOAD: 4KW FOR 150% 3S,110% 57S,100% 240S</p> <p>AMBIENT TEMP -10 TO +40 DEG C 291 X 100 X 165 (HXWXD), FSB</p> <p>PROTECTION IP20 WITHOUT CONTROL UNIT AND PANEL</p> <p>APPROVED FOR CU FIRMWARE- VERSION V4.6</p>	<a href="#">Industry Mall</a>





Article description	Article number	Picture	Technical data	Link
G120 Power Module PM240-2 4kW	6SL3210-1PE21-4AL0		SINAMICS POWER MODULE PM240-2 WITH BUILT IN CL. A FILTER WITH BUILT IN BRAKING CHOPPER 3AC380-480V +10/-10% 47-63HZ OUTPUT HIGH OVERLOAD: 4KW FOR 200% 3S,150% 57S,100% 240S AMBIENT TEMP -10 TO +50 DEG C OUTPUT LOW OVERLOAD: 5,5KW FOR 150% 3S,110% 57S,100% 240S AMBIENT TEMP -10 TO +40 DEG C 291 X 100 X 165 (HXWXD), FSB PROTECTION IP20 WITHOUT CONTROL UNIT AND PANEL APPROVED FOR CU FIRMWARE- VERSION V4.6	<a href="#">Industry Mall</a>
G120 Power Module PM240-2 5.5kW	6SL3210-1PE21-8AL0		SINAMICS POWER MODULE PM240-2 WITH BUILT IN CL. A FILTER WITH BUILT IN BRAKING CHOPPER 3AC380-480V +10/-10% 47-63HZ OUTPUT HIGH OVERLOAD: 5,5KW FOR 200% 3S,150% 57S,100% 240S AMBIENT TEMP -10 TO +50 DEG C OUTPUT LOW OVERLOAD: 7,5KW FOR 150% 3S,110% 57S,100% 240S AMBIENT TEMP -10 TO +40 DEG C 291 X 100 X 165 (HXWXD), FSB PROTECTION IP20 WITHOUT CONTROL UNIT AND PANEL APPROVED FOR CU FIRMWARE- VERSION V4.6	<a href="#">Industry Mall</a>







Article description	Article number	Picture	Technical data	Link
G120 Power Module PM240-2 7.5kW	6SL3210-1PE22-7AL0		SINAMICS POWER MODULE PM240-2 WITH BUILT IN CL. A FILTER WITH BUILT IN BRAKING CHOPPER 3AC380-480V +10/-10% 47-63HZ OUTPUT HIGH OVERLOAD: 7,5KW FOR 200% 3S,150% 57S,100% 240S AMBIENT TEMP -10 TO +50 DEG C OUTPUT LOW OVERLOAD: 11KW FOR 150% 3S,110% 57S,100% 240S AMBIENT TEMP -10 TO +40 DEG C 355 X 140 X 165 (HXWXD), FSC PROTECTION IP20 WITHOUT CONTROL UNIT AND PANEL APPROVED FOR CU FIRMWARE- VERSION V4.6	<a href="#">Industry Mall</a>
G120 Power Module PM240-2 11kW	6SL3210-1PE23-3AL0		SINAMICS POWER MODULE PM240-2 WITH BUILT IN CL. A FILTER WITH BUILT IN BRAKING CHOPPER 3AC380-480V +10/-10% 47-63HZ OUTPUT HIGH OVERLOAD: 11KW FOR 200% 3S,150% 57S,100% 240S AMBIENT TEMP -10 TO +50 DEG C OUTPUT LOW OVERLOAD: 15KW FOR 150% 3S,110% 57S,100% 240S AMBIENT TEMP -10 TO +40 DEG C 355 X 140 X 165 (HXWXD), FSC PROTECTION IP20 WITHOUT CONTROL UNIT AND PANEL APPROVED FOR CU FIRMWARE- VERSION V4.6	<a href="#">Industry Mall</a>





Article description	Article number	Picture	Technical data	Link
G120 Power Module PM240-2 15kW	6SL3210-1PE23-8AL0		<p>SINAMICS G120 POWER MODULE PM240-2 WITH BUILT IN CL. A FILTER WITH BUILT IN BRAKING CHOPPER 3AC380-480V +10/-20% 47-63HZ OUTPUT HIGH OVERLOAD: 15KW FOR 200% 3S,150% 57S,100% 240S AMBIENT TEMP -20 TO +50 DEG C (HO) OUTPUT LOW OVERLOAD: 18.5kW FOR 150% 3S,110% 57S,100% 240S AMBIENT TEMP -20 TO +40 DEG C (LO) 472 X 200 X 237 (HXWXD), FSD PROTECTION IP20 WITHOUT CONTROL UNIT AND PANEL APPROVED FOR CU FIRMWARE- VERSION V4.7 HF8</p>	<a href="#">Industry Mall</a>
G120 Power Module PM240-2 22kW	6SL3210-1PE26-0AL0		<p>SINAMICS G120 POWER MODULE PM240-2 WITH BUILT IN CL. A FILTER WITH BUILT IN BRAKING CHOPPER 3AC380-480V +10/-20% 47-63HZ OUTPUT HIGH OVERLOAD: 22KW FOR 200% 3S,150% 57S,100% 240S AMBIENT TEMP -20 TO +50 DEG C (HO) OUTPUT LOW OVERLOAD: 30kW FOR 150% 3S,110% 57S,100% 240S AMBIENT TEMP -20 TO +40 DEG C (LO) 472 X 200 X 237 (HXWXD), FSD PROTECTION IP20 WITHOUT CONTROL UNIT AND PANEL APPROVED FOR CU FIRMWARE- VERSION V4.7 HF8</p>	<a href="#">Industry Mall</a>





Article description	Article number	Picture	Technical data	Link
G120 Power Module PM240-2 30kW	6SL3210-1PE27-5AL0		<p>SINAMICS G120 POWER MODULE PM240-2 WITH BUILT IN CL. A FILTER WITH BUILT IN BRAKING CHOPPER            3AC380-480V +10/-20%            47-63HZ OUTPUT HIGH OVERLOAD: 30KW FOR 200% 3S,150%            57S,100% 240S            AMBIENT TEMP -20 TO +50 DEG C (HO)            OUTPUT LOW OVERLOAD: 37kW FOR 150% 3S,110%            57S,100% 240S            AMBIENT TEMP -20 TO +40 DEG C (LO) 472 X 200 X 237 (HXWXD),            FSD PROTECTION IP20 WITHOUT CONTROL UNIT AND PANEL            APPROVED FOR CU FIRMWARE- VERSION V4.7 HF8</p>	<a href="#">Industry Mall</a>
G120 Power Module PM240-2 37kW	6SL3210-1PE28-8AL0		<p>SINAMICS G120 POWER MODULE PM240-2 WITH BUILT IN CL. A FILTER WITH BUILT IN BRAKING CHOPPER            3AC380-480V +10/-20%            47-63HZ OUTPUT HIGH OVERLOAD: 37KW FOR 200% 3S,150%            57S,100% 240S            AMBIENT TEMP -20 TO +50 DEG C (HO)            OUTPUT LOW OVERLOAD: 45kW FOR 150% 3S,110%            57S,100% 240S            AMBIENT TEMP -20 TO +40 DEG C (LO) 551 X 275 X 237 (HXWXD),            FSE PROTECTION IP20 WITHOUT CONTROL UNIT AND PANEL            APPROVED FOR CU FIRMWARE- VERSION V4.7 HF8</p>	<a href="#">Industry Mall</a>





Article description	Article number	Picture	Technical data	Link
G120 Power Module PM240-2 45kW	6SL3210-1PE31-1AL0		<p>SINAMICS G120 POWER MODULE PM240-2 WITH BUILT IN CL. A FILTER WITH BUILT IN BRAKING CHOPPER            3AC380-480V +10/-20%            47-63HZ OUTPUT HIGH OVERLOAD: 45KW FOR 200% 3S,150%            57S,100% 240S            AMBIENT TEMP -20 TO +50 DEG C (HO)            OUTPUT LOW OVERLOAD: 55kW FOR 150% 3S,110%            57S,100% 240S            AMBIENT TEMP -20 TO +40 DEG C (LO) 551 X 275 X 237 (HXWXD),            FSE PROTECTION IP20 WITHOUT CONTROL UNIT AND PANEL            APPROVED FOR CU FIRMWARE- VERSION V4.7 HF8</p>	<a href="#">Industry Mall</a>
G120 Power Module PM250 5.5kW	6SL3225-0BE25-5AA1		<p>SINAMICS G120 Power Module PM 250 with integrated Class A filter capable of energy recovery. 380-480 V 3 AC +10/-10% 47-63 Hz            Power high overload: 5.5kW at 200% 3s, 150% 57s, 100% 240 s;            Ambient temperature 0 to +50 °C, power low overload: 7.5kW at 150% 3s, 110% 57s, 100% 240 s;            Ambient temperature 0 to +40 °C 334x 189x 185 (HxWxD), FSC            Degree of protection IP20 without Control Unit and BOP</p>	<a href="#">Industry Mall</a>





Article description	Article number	Picture	Technical data	Link
G120 Power Module PM250 7.5kW	6SL3225-0BE27-5AA1		<p>SINAMICS G120 Power Module PM 250 with integrated Class A filter capable of energy recovery. 380-480 V 3 AC +10/-10% 47-63 Hz            Power high overload: 7.5kW at 200% 3s, 150% 57s, 100% 240 s;            Ambient temperature 0 to +50 °C            Power low overload: 11kW at 150% 3s, 110% 57s, 100% 240 s;            Ambient temperature 0 to +40 °C            334x 189x 185 (HxWxD), FSC            Degree of protection IP20 without Control Unit and BOP</p>	<a href="#">Industry Mall</a>
G120 Power Module PM250 11kW	6SL3225-0BE31-1AA1		<p>SINAMICS G120 Power Module PM 250 with integrated Class A filter capable of energy recovery. 380-480 V 3 AC +10/-10% 47-63 Hz            Power high overload: 11kW at 200% 3s, 150% 57s, 100% 240 s;            Ambient temperature 0 to +50 °C            Power low overload: 15kW at 150% 3s, 110% 57s, 100% 240 s;            Ambient temperature 0 to +40 °C            334x 189x 185 (HxWxD), FSC            Degree of protection IP20 without Control Unit and BOP</p>	<a href="#">Industry Mall</a>





Article description	Article number	Picture	Technical data	Link
G120 Power Module PM250 15kW	6SL3225-0BE31-5AA0		SINAMICS G120 POWER MODULE PM250 WITH BUILT IN CL. A FILTER POSSIBILITY OF REGENERATION 3AC380-480V +10/-10% 47-63HZ OUTPUT HIGH OVERLOAD: 15KW FOR 200% 3S,150% 57S,100% 240S AMBIENT TEMP 0 TO +50 DEG C OUTPUT LIGHT OVERLOAD: 18,5KW FOR 150% 3S,110% 57S,100% 240S AMBIENT TEMP 0 TO +40 DEG C 512 X 275 X 204 (HXWXD), FSD PROTECTION IP20 WITHOUT CONTROL UNIT AND BOP	<a href="#">Industry Mall</a>
G120 Power Module PM250 18.5kW	6SL3225-0BE31-8AA0		SINAMICS G120 POWER MODULE PM250 WITH BUILT IN CL. A FILTER POSSIBILITY OF REGENERATION 3AC380-480V +10/-10% 47-63HZ OUTPUT HIGH OVERLOAD: 18,5KW FOR 200% 3S,150% 57S,100% 240S AMBIENT TEMP 0 TO +50 DEG C OUTPUT LIGHT OVERLOAD: 22KW FOR 150% 3S,110% 57S,100% 240S AMBIENT TEMP 0 TO +40 DEG C 512 X 275 X 204 (HXWXD), FSD PROTECTION IP20 WITHOUT CONTROL UNIT AND BOP	<a href="#">Industry Mall</a>





Article description	Article number	Picture	Technical data	Link
G120 Power Module PM250 22kW	6SL3225-0BE32-2AA0		SINAMICS G120 POWER MODULE PM250 WITH BUILT IN CL. A FILTER POSSIBILITY OF REGENERATION 3AC380-480V +10/-10% 47-63HZ OUTPUT HIGH OVERLOAD: 22KW FOR 200% 3S,150% 57S,100% 240S AMBIENT TEMP 0 TO +50 DEG C OUTPUT LIGHT OVERLOAD: 30KW FOR 150% 3S,110% 57S,100% 240S AMBIENT TEMP 0 TO +40 DEG C 512 X 275 X 204 (HXWXD), FSD PROTECTION IP20 WITHOUT CONTROL UNIT AND BOP	<a href="#">Industry Mall</a>
G120 Power Module PM250 30kW	6SL3225-0BE33-0AA0		SINAMICS G120 POWER MODULE PM250 WITH BUILT IN CL. A FILTER POSSIBILITY OF REGENERATION 3AC380-480V +10/-10% 47-63HZ OUTPUT HIGH OVERLOAD: 30KW FOR 200% 3S,150% 57S,100% 240S AMBIENT TEMP 0 TO +50 DEG C OUTPUT LIGHT OVERLOAD: 37KW FOR 150% 3S,110% 57S,100% 240S AMBIENT TEMP 0 TO +40 DEG C 635 X 275 X 204 (HXWXD), FSE PROTECTION IP20 WITHOUT CONTROL UNIT AND BOP	<a href="#">Industry Mall</a>



Article description	Article number	Picture	Technical data	Link
G120 Power Module PM250 38kW	6SL3225-0BE33-7AA0		SINAMICS G120 POWER MODULE PM250 WITH BUILT IN CL. A FILTER POSSIBILITY OF REGENERATION 3AC380-480V +10/-10% 47-63HZ OUTPUT HIGH OVERLOAD: 37KW FOR 200% 3S,150% 57S,100% 240S AMBIENT TEMP 0 TO +50 DEG C OUTPUT LIGHT OVERLOAD: 45KW FOR 150% 3S,110% 57S,100% 240S AMBIENT TEMP 0 TO +40 DEG C 635 X 275 X 204 (HXWXD), FSE PROTECTION IP20 WITHOUT CONTROL UNIT AND BOP	<a href="#">Industry Mall</a>
G120 Power Module PM250 45kW	6SL3225-0BE34-5AA0		SINAMICS G120 POWER MODULE PM250 WITH BUILT IN CL. A FILTER POSSIBILITY OF REGENERATION 3AC380-480V +10/-10% 47-63HZ OUTPUT HIGH OVERLOAD: 45KW FOR 200% 3S,150% 57S,100% 240S AMBIENT TEMP 0 TO +50 DEG C OUTPUT LIGHT OVERLOAD: 55KW FOR 150% 3S,110% 57S,100% 240S AMBIENT TEMP 0 TO +40 DEG C 934 X 350 X 316 (HXWXD), FSF PROTECTION IP20 WITHOUT CONTROL UNIT AND BOP	<a href="#">Industry Mall</a>






Article description	Article number	Picture	Technical data	Link
G120 Power Module PM250 55kW	6SL3225-0BE35-5AA0		SINAMICS G120 POWER MODULE PM250 WITH BUILT IN CL. A FILTER POSSIBILITY OF REGENERATION 3AC380-480V +10/-10% 47-63HZ OUTPUT HIGH OVERLOAD: 55KW FOR 200% 3S,150% 57S,100% 240S AMBIENT TEMP 0 TO +50 DEG C OUTPUT LIGHT OVERLOAD: 75KW FOR 150% 3S,110% 57S,100% 240S AMBIENT TEMP 0 TO +40 DEG C 934 X 350 X 316 (HXWXD), FSF PROTECTION IP20 WITHOUT CONTROL UNIT AND BOP	<a href="#">Industry Mall</a>
G120 Power Module PM250 75kW	6SL3225-0BE37-5AA0		SINAMICS G120 POWER MODULE PM250 WITH BUILT IN CL. A FILTER POSSIBILITY OF REGENERATION 3AC380-480V +10/-10% 47-63HZ OUTPUT HIGH OVERLOAD: 75KW FOR 200% 3S,150% 57S,100% 240S AMBIENT TEMP 0 TO +50 DEG C OUTPUT LIGHT OVERLOAD: 90KW FOR 150% 3S,110% 57S,100% 240S AMBIENT TEMP 0 TO +40 DEG C 934 X 350 X 316 (HXWXD), FSF PROTECTION IP20 WITHOUT CONTROL UNIT AND BOP	<a href="#">Industry Mall</a>



### 3.1.2.3. Supplementary Components

Article description	Article number	Picture	Technical data	Link
SINAMICS SD-Card	6SL3054-4AG00-2AA0		SINAMICS SD-CARD 512 MB empty	<a href="#">Industry Mall</a>
SINAMICS Line Reactor 4.0A	6SL3203-0CE13-2AA0		SINAMICS reactor 380-480V 3AC 47-63Hz I <sub>LN</sub> =4.0 A Stand-alone	<a href="#">Industry Mall</a>
SINAMICS Line Reactor 11.3A	6SL3203-0CE21-0AA0		SINAMICS reactor 380-480V 3AC 47-63Hz I <sub>LN</sub> =11.3 A Stand-alone	<a href="#">Industry Mall</a>
SINAMICS Line Reactor 22.3A	6SL3203-0CE21-8AA0		SINAMICS reactor 380-480V 3AC 47-63Hz I <sub>LN</sub> =22.3 A Stand-alone	<a href="#">Industry Mall</a>
SINAMICS Line Reactor 47.0A	6SL3203-0CE23-8AA0		SINAMICS reactor 380-480V 3AC 47-63Hz I <sub>LN</sub> =47.0 A Stand-alone	<a href="#">Industry Mall</a>
G120 PC Converter Connection Kit	6SL3255-0AA00-2CA0		SINAMICS G120 PC inverter connection kit 2 3 m USB cable for Control Units CU230P-2 CU240B-2, CU240E-2, CU250S-2 G110M and SINAMICS G120C	<a href="#">Industry Mall</a>
G120 Basic Operator Panel BOP-2	6SL3255-0AA00-4CA1		SINAMICS G120 Basic Operator Panel (BOP-2)	<a href="#">Industry Mall</a>




Article description	Article number	Picture	Technical data	Link
G120 Intelligent Operator Panel IOP-2	6SL3255-0AA00-4JA2		SINAMICS G Intelligent Operator Panel IOP-2 for SINAMICS G120, G120P G110M, G110D, G120D, G120C ET 200PRO FC-2 Language settings: German, English, French Italian, Spanish Portuguese, Dutch Swedish, Russian Czech, Polish Turkish, Finnish Chinese (simplified) Environmental class during operation: Harmful chemical substances, Class 3C3 according to IEC 60721-3-3: 2002	<a href="#">Industry Mall</a>





### 3.1.3. SIMOTICS

#### 3.1.3.1. SIMOTICS S (Servomotors) 1FK7



The usage of motors outside of the specified performance range because of technical reasons is allowed after clarifying with the responsible electrical planning department, an approval in written form is necessary.

Article description	Article number	Picture	Technical data	Link
1FK7 0.85Nm, 6000U/min, w/o Holding Brake	1FK7022-5AK71-1LG3		SIMOTICS S Synchronous servo motor 1FK7 Compact 0.85Nm, 100K, 6000rpm 0.38kW, Naturally cooled Power/signal connectors Connector can be rotated by 270° FRAME SIZE IMB 5 (IM V1, IM V3) FLANGE 1 ABSOLUTE ENCODER 512 P/REV (ENCODER A-512) WITH DRIVE-CLIQ INTERFACE; PERFORMANCE REDUCTION BY 10% DUE TO ABSOLUTE ENCODER; PLAIN SHAFT, TOLERANCE N; W/O HOLDING BRAKE DEGREE OF PROTECTION IP64; PAINT FINISH RAL7016	<a href="#">Industry Mall</a>





Article description	Article number	Picture	Technical data	Link
1FK7 0.85Nm, 6000U/min, with Holding Brake	1FK7022-5AK71-1LH3		SIMOTICS S Synchronous servo motor 1FK7 Compact 0.85Nm, 100K, 6000rpm 0.38kW, Naturally cooled Power/signal connectors Connector can be rotated by 270° FRAME SIZE IMB 5 (IM V1, IM V3) FLANGE 1 ABSOLUTE ENCODER 512 P/REV (ENCODER A-512) WITH DRIVE-CLIQ INTERFACE; PERFORMANCE REDUCTION BY 10% DUE TO ABSOLUTE ENCODER; PLAIN SHAFT, TOLERANCE N; WITH HOLDING BRAKE DEGREE OF PROTECTION IP64; PAINT FINISH RAL7016	<a href="#">Industry Mall</a>
1FK7 1.15Nm, 6000U/min, w/o Holding Brake	1FK7032-2AK71-1CG1		SIMOTICS S Synchronous motor 1FK7-CT PN=0.5kW; UDC=600V M0=1.15Nm (100K); NN=6000rpm; Naturally cooled FRAME SIZE IMB 5 (IM V1, IM V3) FLANGE 1 POWER CONNECTOR ROTATABLE ABSOLUTE ENCODER 24 BIT + 12 BIT MULTITURN WITH DRIVE-CLIQ INTERFACE (ENCODER AM24DQI) PLAIN SHAFT, TOLERANCE N; W/O HOLDING BRAKE PROTECTION CLASS IP65,	<a href="#">Industry Mall</a>





Article description	Article number	Picture	Technical data	Link
1FK7 1.15Nm, 6000U/min, with Holding Brake	1FK7032-2AK71-1CH1		SIMOTICS S Synchronous motor 1FK7-CT PN=0.5kW; UDC=600V M0=1.15Nm (100K); NN=6000rpm; Naturally cooled FRAME SIZE IMB 5 (IM V1, IM V3) FLANGE 1 POWER CONNECTOR ROTATABLE ABSOLUTE ENCODER 24 BIT + 12 BIT MULTITURN WITH DRIVE-CLIQ INTERFACE (ENCODER AM24DQI) PLAIN SHAFT, TOLERANCE N; WITH HOLDING BRAKE PROTECTION CLASS IP65,	<a href="#">Industry Mall</a>
1FK7 3Nm, 3000U/min, w/o Holding Brake	1FK7042-2AF71-1CG1		SIMOTICS S SIMOTICS S-1FK7 Synchronous motor 1FK7-CT PN=0.82kW; UDC=600V M0=3Nm (100K); NN=3000rpm; Naturally cooled FRAME SIZE IMB 5 (IM V1, IM V3) FLANGE 1 POWER CONNECTOR ROTATABLE ABSOLUTE ENCODER 24 BIT + 12 BIT MULTITURN WITH DRIVE-CLIQ INTERFACE (ENCODER AM24DQI) PLAIN SHAFT, TOLERANCE N; W/O HOLDING BRAKE PROTECTION CLASS IP65,	<a href="#">Industry Mall</a>





Article description	Article number	Picture	Technical data	Link
1FK7 3Nm, 3000U/min, with Holding Brake	1FK7042-2AF71-1CH1		SIMOTICS S SIMOTICS S-1FK7 Synchronous motor 1FK7-CT PN=0.82kW; UDC=600V M0=3Nm (100K); NN=3000rpm; Naturally cooled FRAME SIZE IMB 5 (IM V1, IM V3) FLANGE 1 POWER CONNECTOR ROTATABLE ABSOLUTE ENCODER 24 BIT + 12 BIT MULTITURN WITH DRIVE-CLIQ INTERFACE (ENCODER AM24DQI) PLAIN SHAFT, TOLERANCE N; WITH HOLDING BRAKE PROTECTION CLASS IP65,	<a href="#">Industry Mall</a>
1FK7 6Nm, 3000U/min, w/o Holding Brake	1FK7060-2AF71-1CG1		SIMOTICS S Synchronous motor 1FK7-CT PN=1.5kW; UDC=600V M0=6Nm (100K); NN=3000rpm; Naturally cooled FRAME SIZE IMB 5 (IM V1, IM V3) FLANGE 1 POWER CONNECTOR ROTATABLE ABSOLUTE ENCODER 24 BIT + 12 BIT MULTITURN WITH DRIVE-CLIQ INTERFACE (ENCODER AM24DQI) PLAIN SHAFT, TOLERANCE N; W/O HOLDING BRAKE PROTECTION CLASS IP65,	<a href="#">Industry Mall</a>





Article description	Article number	Picture	Technical data	Link
1FK7 6Nm, 3000U/min, with Holding Brake	1FK7060-2AF71-1CH1		SIMOTICS S Synchronous motor 1FK7-CT PN=1.5kW; UDC=600V M0=6Nm (100K); NN=3000rpm; Naturally cooled FRAME SIZE IMB 5 (IM V1, IM V3) FLANGE 1 POWER CONNECTOR ROTATABLE ABSOLUTE ENCODER 24 BIT + 12 BIT MULTITURN WITH DRIVE-CLIQ INTERFACE (ENCODER AM24DQI) PLAIN SHAFT, TOLERANCE N; WITH HOLDING BRAKE PROTECTION CLASS IP65,	<a href="#">Industry Mall</a>
1FK7 11Nm, 3000U/min, w/o Holding Brake	1FK7063-2AF71-1CG1		SIMOTICS S Synchronous motor 1FK7-CT PN=2.3kW; UDC=600V M0=11Nm (100K); NN=3000rpm; Naturally cooled FRAME SIZE IMB 5 (IM V1, IM V3) FLANGE 1 POWER CONNECTOR ROTATABLE ABSOLUTE ENCODER 24 BIT + 12 BIT MULTITURN WITH DRIVE-CLIQ INTERFACE (ENCODER AM24DQI) PLAIN SHAFT, TOLERANCE N; W/O HOLDING BRAKE PROTECTION CLASS IP65,	<a href="#">Industry Mall</a>







Article description	Article number	Picture	Technical data	Link
1FK7 11Nm, 3000U/min, with Holding Brake	1FK7063-2AF71-1CH1		SIMOTICS S Synchronous motor 1FK7-CT PN=2.3kW; UDC=600V M0=11Nm (100K); NN=3000rpm; Naturally cooled FRAME SIZE IMB 5 (IM V1, IM V3) FLANGE 1 POWER CONNECTOR ROTATABLE ABSOLUTE ENCODER 24 BIT + 12 BIT MULTITURN WITH DRIVE-CLIQ INTERFACE (ENCODER AM24DQI) PLAIN SHAFT, TOLERANCE N; WITH HOLDING BRAKE PROTECTION CLASS IP65,	<a href="#">Industry Mall</a>
1FK7 16Nm, 3000U/min, w/o Holding Brake	1FK7083-2AF71-1CG1		SIMOTICS S Synchronous motor 1FK7-CT PN=3.3kW; UDC=600V M0=16Nm (100K); NN=3000rpm; Naturally cooled FRAME SIZE IMB 5 (IM V1, IM V3) FLANGE 1 POWER CONNECTOR ROTATABLE ABSOLUTE ENCODER 24 BIT + 12 BIT MULTITURN WITH DRIVE-CLIQ INTERFACE (ENCODER AM24DQI) PLAIN SHAFT, TOLERANCE N; W/O HOLDING BRAKE PROTECTION CLASS IP65,	<a href="#">Industry Mall</a>





Article description	Article number	Picture	Technical data	Link
1FK7 16Nm, 3000U/min, with Holding Brake	1FK7083-2AF71-1CH1		SIMOTICS S Synchronous motor 1FK7-CT PN=3.3kW; UDC=600V M0=16Nm (100K); NN=3000rpm; Naturally cooled FRAME SIZE IMB 5 (IM V1, IM V3) FLANGE 1 POWER CONNECTOR ROTATABLE ABSOLUTE ENCODER 24 BIT + 12 BIT MULTITURN WITH DRIVE-CLIQ INTERFACE (ENCODER AM24DQI) PLAIN SHAFT, TOLERANCE N; WITH HOLDING BRAKE PROTECTION CLASS IP65,	<a href="#">Industry Mall</a>
1FK7 18Nm, 3000U/min, w/o Holding Brake	1FK7100-2AF71-1CG1		SIMOTICS S Synchronous motor 1FK7-CT PN=3.8kW; UDC=600V M0=18Nm (100K); NN=3000rpm; Naturally cooled FRAME SIZE IMB 5 (IM V1, IM V3) FLANGE 1 POWER CONNECTOR ROTATABLE ABSOLUTE ENCODER 24 BIT + 12 BIT MULTITURN WITH DRIVE-CLIQ INTERFACE (ENCODER AM24DQI) PLAIN SHAFT, TOLERANCE N; W/O HOLDING BRAKE PROTECTION CLASS IP65,	<a href="#">Industry Mall</a>





Article description	Article number	Picture	Technical data	Link
1FK7 18Nm, 3000U/min, with Holding Brake	1FK7100-2AF71-1CH1		SIMOTICS S Synchronous motor 1FK7-CT PN=3.8kW; UDC=600V M0=18Nm (100K); NN=3000rpm; Naturally cooled FRAME SIZE IMB 5 (IM V1, IM V3) FLANGE 1 POWER CONNECTOR ROTATABLE ABSOLUTE ENCODER 24 BIT + 12 BIT MULTITURN WITH DRIVE-CLIQ INTERFACE (ENCODER AM24DQI) PLAIN SHAFT, TOLERANCE N; WITH HOLDING BRAKE PROTECTION CLASS IP65,	<a href="#">Industry Mall</a>
1FK7 27Nm, 3000U/min, w/o Holding Brake	1FK7101-2AF71-1CG1		SIMOTICS S Synchronous motor 1FK7-CT PN=4.9kW; UDC=600V M0=27Nm (100K); NN=3000rpm; Naturally cooled FRAME SIZE IMB 5 (IM V1, IM V3) FLANGE 1 POWER CONNECTOR ROTATABLE ABSOLUTE ENCODER 24 BIT + 12 BIT MULTITURN WITH DRIVE-CLIQ INTERFACE (ENCODER AM24DQI) PLAIN SHAFT, TOLERANCE N; W/O HOLDING BRAKE PROTECTION CLASS IP65,	<a href="#">Industry Mall</a>




Article description	Article number	Picture	Technical data	Link
1FK7 27Nm, 3000U/min, with Holding Brake	1FK7101-2AF71-1CH1		SIMOTICS S Synchronous motor 1FK7-CT PN=4.9kW; UDC=600V M0=27Nm (100K); NN=3000rpm; Naturally cooled FRAME SIZE IMB 5 (IM V1, IM V3) FLANGE 1 POWER CONNECTOR ROTATABLE ABSOLUTE ENCODER 24 BIT + 12 BIT MULTITURN WITH DRIVE-CLIQ INTERFACE (ENCODER AM24DQI) PLAIN SHAFT, TOLERANCE N; WITH HOLDING BRAKE PROTECTION CLASS IP65,	<a href="#">Industry Mall</a>
1FK7 36Nm, 3000U/min, w/o Holding Brake	1FK7103-2AF71-1CG1		SIMOTICS S Synchronous motor 1FK7-CT PN=4.4kW; UDC=600V M0=36Nm (100K); NN=3000rpm; Naturally cooled FRAME SIZE IMB 5 (IM V1, IM V3) FLANGE 1 POWER CONNECTOR ROTATABLE ABSOLUTE ENCODER 24 BIT + 12 BIT MULTITURN WITH DRIVE-CLIQ INTERFACE (ENCODER AM24DQI) PLAIN SHAFT, TOLERANCE N; W/O HOLDING BRAKE PROTECTION CLASS IP65,	<a href="#">Industry Mall</a>



Article description	Article number	Picture	Technical data	Link
1FK7 36Nm, 3000U/min, with Holding Brake	1FK7103-2AF71-1CH1		SIMOTICS S Synchronous motor 1FK7-CT PN=4.4kW; UDC=600V M0=36Nm (100K); NN=3000rpm; Naturally cooled FRAME SIZE IMB 5 (IM V1, IM V3) FLANGE 1 POWER CONNECTOR ROTATABLE ABSOLUTE ENCODER 24 BIT + 12 BIT MULTITURN WITH DRIVE-CLIQ INTERFACE (ENCODER AM24DQI) PLAIN SHAFT, TOLERANCE N; WITH HOLDING BRAKE PROTECTION CLASS IP65,	<a href="#">Industry Mall</a>
1FK7 48Nm, 3000U/min, w/o Holding Brake	1FK7105-2AF71-1CG1		SIMOTICS S Synchronous motor 1FK7-CT PN=8.2kW; UDC=600V M0=48Nm (100K); NN=3000rpm; Naturally cooled FRAME SIZE IMB 5 (IM V1, IM V3) FLANGE 1 POWER CONNECTOR ROTATABLE ABSOLUTE ENCODER 24 BIT + 12 BIT MULTITURN WITH DRIVE-CLIQ INTERFACE (ENCODER AM24DQI) PLAIN SHAFT, TOLERANCE N; W/O HOLDING BRAKE PROTECTION CLASS IP65,	<a href="#">Industry Mall</a>





Article description	Article number	Picture	Technical data	Link
1FK7 48Nm, 3000U/min, with Holding Brake	1FK7105-2AF71-1CH1		SIMOTICS S Synchronous motor 1FK7-CT PN=8.2kW; UDC=600V M0=48Nm (100K); NN=3000rpm; Naturally cooled FRAME SIZE IMB 5 (IM V1, IM V3) FLANGE 1 POWER CONNECTOR ROTATABLE ABSOLUTE ENCODER 24 BIT + 12 BIT MULTITURN WITH DRIVE-CLIQ INTERFACE (ENCODER AM24DQI) PLAIN SHAFT, TOLERANCE N; WITH HOLDING BRAKE PROTECTION CLASS IP65,	<a href="#">Industry Mall</a>





### 3.1.3.2. SIMOTICS S (Servomotors) 1FT7

The usage of motors outside of the given performance range because of technical reasons is allowed after clarifying with the responsible electrical planning department, an approval in written form is necessary.



Article description	Article number	Picture	Technical data	Link
1FT7 2Nm, 6000U/min, w/o Holding Brake	1FT7034-1AK71-1CG1		SIMOTICS S Synchronous motor 1FT7, M0=2Nm (100K) NN=6000rpm, PN=0.88kW naturally cooled; Power connector rotatable; Vibration severity A Degree of protection IP65 Frame size IMB 5 (IM V1, IM V3) Conventional flange (1FT6/1FK7 compatible) ABSOLUTE ENCODER 24 BITS + 12 BIT MULTITURN WITH DRIVE-CLIQ INTERFACE (ENCODER AM24DQI) PLAIN SHAFT, W/O HOLDING BRAKE; ACCURACY TOLERANCE N	<a href="#">Industry Mall</a>
1FT7 2Nm, 6000U/min, with Holding Brake	1FT7034-1AK71-1CH1		SIMOTICS S Synchronous motor 1FT7, M0=2Nm (100K) NN=6000rpm, PN=0.88kW naturally cooled; Power connector rotatable; Vibration severity A Degree of protection IP65 Frame size IMB 5 (IM V1, IM V3) Conventional flange (1FT6/1FK7 compatible) ABSOLUTE ENCODER 24 BITS + 12 BIT MULTITURN WITH DRIVE-CLIQ INTERFACE (ENCODER AM24DQI) PLAIN SHAFT, WITH HOLDING BRAKE; ACCURACY TOLERANCE N	<a href="#">Industry Mall</a>





Article description	Article number	Picture	Technical data	Link
1FT7 5Nm, 3000U/min, w/o Holding Brake	1FT7044-1AF71-1CG1		SIMOTICS S Synchronous motor 1FT7, M0=5Nm (100K) NN=3000rpm, PN=1.35kW naturally cooled; Power connector rotatable; Vibration severity A Degree of protection IP65 Frame size IMB 5 (IM V1, IM V3) Conventional flange (1FT6/1FK7 compatible) ABSOLUTE ENCODER 24 BITS + 12 BIT MULTITURN WITH DRIVE-CLIQ INTERFACE (ENCODER AM24DQI) PLAIN SHAFT, W/O HOLDING BRAKE; ACCURACY TOLERANCE N	<a href="#">Industry Mall</a>
1FT7 5Nm, 3000U/min, with Holding Brake	1FT7044-1AF71-1CH1		SIMOTICS S Synchronous motor 1FT7, M0=5Nm (100K) NN=3000rpm, PN=1.35kW naturally cooled; Power connector rotatable; Vibration severity A Degree of protection IP65 Frame size IMB 5 (IM V1, IM V3) Conventional flange (1FT6/1FK7 compatible) ABSOLUTE ENCODER 24 BITS + 12 BIT MULTITURN WITH DRIVE-CLIQ INTERFACE (ENCODER AM24DQI) PLAIN SHAFT, WITH HOLDING BRAKE; ACCURACY TOLERANCE N	<a href="#">Industry Mall</a>







Article description	Article number	Picture	Technical data	Link
1FT7 9Nm, 3000U/min, w/o Holding Brake	1FT7064-1AF71-1CG1		SIMOTICS S Synchronous motor 1FT7, M0=9Nm (100K) NN=3000rpm, PN=2.39kW naturally cooled; Power connector rotatable; Vibration severity A Degree of protection IP65 Frame size IMB 5 (IM V1, IM V3) Conventional flange (1FT6/1FK7 compatible) ABSOLUTE ENCODER 24 BITS + 12 BIT MULTITURN WITH DRIVE-CLIQ INTERFACE (ENCODER AM24DQI) PLAIN SHAFT, W/O HOLDING BRAKE; ACCURACY TOLERANCE N	<a href="#">Industry Mall</a>
1FT7 9Nm, 3000U/min, with Holding Brake	1FT7064-1AF71-1CH1		SIMOTICS S Synchronous motor 1FT7, M0=9Nm (100K) NN=3000rpm, PN=2.39kW naturally cooled; Power connector rotatable; Vibration severity A Degree of protection IP65 Frame size IMB 5 (IM V1, IM V3) Conventional flange (1FT6/1FK7 compatible) ABSOLUTE ENCODER 24 BITS + 12 BIT MULTITURN WITH DRIVE-CLIQ INTERFACE (ENCODER AM24DQI) PLAIN SHAFT, WITH HOLDING BRAKE; ACCURACY TOLERANCE N	<a href="#">Industry Mall</a>





Article description	Article number	Picture	Technical data	Link
1FT7 13Nm, 3000U/min, w/o Holding Brake	1FT7082-1AF71-1CG1		<p>SIMOTICS S Synchronous motor 1FT7, M0=13Nm (100K) NN=3000rpm, PN=3.24kW naturally cooled; Power connector rotatable; Vibration severity A Degree of protection IP65 Frame size IMB 5 (IM V1, IM V3) Conventional flange (1FT6/1FK7 compatible) ABSOLUTE ENCODER 24 BITS + 12 BIT MULTITURN WITH DRIVE-CLIQ INTERFACE (ENCODER AM24DQI) PLAIN SHAFT, W/O HOLDING BRAKE; ACCURACY TOLERANCE N</p>	<a href="#">Industry Mall</a>
1FT7 13Nm, 3000U/min, with Holding Brake	1FT7082-1AF71-1CH1		<p>SIMOTICS S Synchronous motor 1FT7, M0=13Nm (100K) NN=3000rpm, PN=3.24kW naturally cooled; Power connector rotatable; Vibration severity A Degree of protection IP65 Frame size IMB 5 (IM V1, IM V3) Conventional flange (1FT6/1FK7 compatible) ABSOLUTE ENCODER 24 BITS + 12 BIT MULTITURN WITH DRIVE-CLIQ INTERFACE (ENCODER AM24DQI) PLAIN SHAFT, WITH HOLDING BRAKE, ACCURACY TOLERANCE N</p>	<a href="#">Industry Mall</a>





Article description	Article number	Picture	Technical data	Link
1FT7 20Nm, 3000U/min, w/o Holding Brake	1FT7084-1AF71-1CG1		<p>SIMOTICS S Synchronous motor 1FT7, M0=20Nm (100K) NN=3000rpm, PN=4.56kW naturally cooled; Power connector rotatable; Vibration severity A Degree of protection IP65 Frame size IMB 5 (IM V1, IM V3) Conventional flange (1FT6/1FK7 compatible) ABSOLUTE ENCODER 24 BITS + 12 BIT MULTITURN WITH DRIVE-CLIQ INTERFACE (ENCODER AM24DQI) PLAIN SHAFT, W/O HOLDING BRAKE; ACCURACY TOLERANCE N</p>	<a href="#">Industry Mall</a>
1FT7 20Nm, 3000U/min, with Holding Brake	1FT7084-1AF71-1CH1		<p>SIMOTICS S Synchronous motor 1FT7, M0=20Nm (100K) NN=3000rpm, PN=4.56kW naturally cooled; Power connector rotatable; Vibration severity A Degree of protection IP65 Frame size IMB 5 (IM V1, IM V3) Conventional flange (1FT6/1FK7 compatible) ABSOLUTE ENCODER 24 BITS + 12 BIT MULTITURN WITH DRIVE-CLIQ INTERFACE (ENCODER AM24DQI) PLAIN SHAFT, WITH HOLDING BRAKE, ACCURACY TOLERANCE N</p>	<a href="#">Industry Mall</a>



Article description	Article number	Picture	Technical data	Link
1FT7 28Nm, 3000U/min, w/o Holding Brake	1FT7086-1AF71-1CG1		<p>SIMOTICS S Synchronous motor 1FT7, M0=28Nm (100K) NN=3000rpm, PN=5.65kW naturally cooled; Power connector rotatable; Vibration severity A Degree of protection IP65 Frame size IMB 5 (IM V1, IM V3) Conventional flange (1FT6/1FK7 compatible) ABSOLUTE ENCODER 24 BITS + 12 BIT MULTITURN WITH DRIVE-CLIQ INTERFACE (ENCODER AM24DQI) PLAIN SHAFT, W/O HOLDING BRAKE; ACCURACY TOLERANCE N</p>	<a href="#">Industry Mall</a>
1FT7 28Nm, 3000U/min, with Holding Brake	1FT7086-1AF71-1CH1		<p>SIMOTICS S Synchronous motor 1FT7, M0=28Nm (100K) NN=3000rpm, PN=5.65kW naturally cooled; Power connector rotatable; Vibration severity A Degree of protection IP65 Frame size IMB 5 (IM V1, IM V3) Conventional flange (1FT6/1FK7 compatible) ABSOLUTE ENCODER 24 BITS + 12 BIT MULTITURN WITH DRIVE-CLIQ INTERFACE (ENCODER AM24DQI) PLAIN SHAFT, WITH HOLDING BRAKE, ACCURACY TOLERANCE N</p>	<a href="#">Industry Mall</a>




Article description	Article number	Picture	Technical data	Link
1FT7 50Nm, 2000U/min, w/o Holding Brake	1FT7105-1AC71-1CG1		<p>SIMOTICS S Synchronous motor 1FT7, M0=50Nm (100K) NN=2000rpm, PN=7.96kW naturally cooled; Power connector rotatable; Vibration severity A Degree of protection IP65 Frame size IMB 5 (IM V1, IM V3) Conventional flange (1FT6/1FK7 compatible) ABSOLUTE ENCODER 24 BITS + 12 BIT MULTITURN WITH DRIVE-CLIQ INTERFACE (ENCODER AM24DQI) PLAIN SHAFT, W/O HOLDING BRAKE; ACCURACY TOLERANCE N</p>	<a href="#">Industry Mall</a>
1FT7 50Nm, 2000U/min, with Holding Brake	1FT7105-1AC71-1CH1		<p>SIMOTICS S Synchronous motor 1FT7, M0=50Nm (100K) NN=2000rpm, PN=7.96kW naturally cooled; Power connector rotatable; Vibration severity A Degree of protection IP65 Frame size IMB 5 (IM V1, IM V3) Conventional flange (1FT6/1FK7 compatible) ABSOLUTE ENCODER 24 BITS + 12 BIT MULTITURN WITH DRIVE-CLIQ INTERFACE (ENCODER AM24DQI) PLAIN SHAFT, WITH HOLDING BRAKE; ACCURACY TOLERANCE N</p>	<a href="#">Industry Mall</a>





### 3.1.3.3. SIMOTICS M (Main Motors) 1PH8



The usage of motors outside of the given performance range because of technical reasons is allowed after clarifying with the responsible electrical planning department, an approval in written form is necessary.

Article description	Article number	Picture	Technical data	Link
1PH8 31Nm, 2300U/min	1PH8103-1DG02-0HE1		SIMOTICS M Compact induction motor 2000rpm, 7.0 kW 31Nm, 17A, 345V 2300rpm, 7.5kW 33Nm, 17.5A, 400 V 2650rpm, 8.0kW 29Nm, 16A, 434V forced ventilation; direction of air flow DE--> NDE; Degree of protection IP55 INCREMENTAL ENCODER 22 BIT WITH COMMUTATING POSITION (ENCODER IC22DQ) WITH DRIVE-CLIQ INTERFACE DESIGN IM B5 (IMV 1,IM V3) PLAIN SHAFT WITHOUT FITTED KEY; BEARING: STANDARD, VIBRATION SEVERITY GRADE: S/A, SHAFT AND FLANGE ACCURACY: R POWER CONNECTOR (ABOVE) CABLE ENTRY ON THE RIGHT SIGNAL CONNECTION D-END	<a href="#">Industry Mall</a>



Article description	Article number	Picture	Technical data	Link
1PH8 57Nm, 1750U/min	1PH8107-1DF02-0HE1		<p>SIMOTICS M Compact induction motor 1500rpm, 9.0kW 57Nm, 23.5A, 330V 1750rpm, 10.0kW 55Nm, 22A, 380 V 2000rpm, 11 kW 53Nm, 21.5A, 428V forced ventilation; direction of air flow DE--&gt; NDE; Degree of protection IP55            INCREMENTAL ENCODER 22 BIT WITH COMMUTATING POSITION (ENCODER IC22DQ) WITH DRIVE-CLIQ INTERFACE DESIGN IM B5 (IMV 1,IM V3) PLAIN SHAFT WITHOUT FITTED KEY; BEARING: STANDARD, VIBRATION SEVERITY GRADE: S/A, SHAFT AND FLANGE ACCURACY: R POWER CONNECTOR (ABOVE) CABLE ENTRY ON THE RIGHT SIGNAL CONNECTION D-END</p>	<a href="#">Industry Mall</a>
1PH8 115Nm, 1150U/min	1PH8133-1DD02-0HE1		<p>SIMOTICS M Compact induction motor 1000rpm, 12kW 115Nm, 30 A, 319V 1150rpm, 13.5kW 112Nm, 29A, 361V 1350rpm, 15 kW 106Nm, 28A, 417V forced ventilation; direction of air flow DE--&gt; NDE; Degree of protection IP55            INCREMENTAL ENCODER 22 BIT WITH COMMUTATING POSITION (ENCODER IC22DQ) WITH DRIVE-CLIQ INTERFACE DESIGN IM B5 (IMV 1,IM V3) PLAIN SHAFT WITHOUT FITTED KEY; BEARING: STANDARD, VIBRATION SEVERITY GRADE: S/A, SHAFT AND FLANGE ACCURACY: R POWER CONNECTOR (ABOVE) CABLE ENTRY ON THE RIGHT SIGNAL CONNECTION D-END</p>	<a href="#">Industry Mall</a>



Article description	Article number	Picture	Technical data	Link
1PH8 162Nm, 1150U/min	1PH8137-1DD02-0HE1		<p>SIMOTICS M Compact induction motor 1000rpm, 17kW 162Nm, 43A, 307V 1150rpm, 19.5kW 162Nm, 43A, 350 V 1350rpm, 22 kW 156Nm, 42A, 404V forced ventilation; direction of air flow DE--&gt; NDE; Degree of protection IP55            INCREMENTAL ENCODER 22 BIT WITH COMMUTATING POSITION (ENCODER IC22DQ) WITH DRIVE-CLIQ INTERFACE DESIGN IM B5 (IMV 1,IM V3) PLAIN SHAFT WITHOUT FITTED KEY; BEARING: STANDARD, VIBRATION SEVERITY GRADE: S/A, SHAFT AND FLANGE ACCURACY: R POWER CONNECTOR (ABOVE) CABLE ENTRY ON THE RIGHT SIGNAL CONNECTION D-END</p>	<a href="#">Industry Mall</a>
1PH8 236Nm, 1750U/min	1PH8165-1DF03-0HA1		<p>SIMOTICS M Compact induction motor 1500rpm, 37kW, 236Nm, 78A, 350 V 1750rpm, 41kW, 224Nm, 76A, 400 V 2000rpm, 45kW, 215Nm, 75 A, 440 V forced ventilation; direction of air flow DE--&gt; NDE; Degree of protection IP55            INCREMENTAL ENCODER 22 BIT WITH COMMUTATING POSITION (ENCODER IC22DQ) WITH DRIVE-CLIQ INTERFACE DESIGN IM B35 (IM V15, IM V35) PLAIN SHAFT WITHOUT FITTED KEY; BEARING: STANDARD, VIBRATION SEVERITY GRADE S/A; SHAFT AND FLANGE ACCURACY: R TERMINAL BOX (ABOVE) CABLE ENTRY ON THE RIGHT SIGNAL CONNECTION D-END</p>	<a href="#">Industry Mall</a>





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#### **3.1.3.4. SIMOTICS L (Linear Motors)**

The usage of 1FN3 components is allowed after clarifying with the responsible electrical planning department, an approval in written form is necessary.

## 3.2 Control Technology and Visualization




### 3.2.1. SINUMERIK ONE NCUs

**Important:**

The choice of the CNC controller (SINUMERIK ONE or 840D sl) has to be clarified with the responsible electrical planning department.

**Important:**

For the engineering of the SINUMERIK ONE, TIA Portal V17 or higher must be used. Generally, the export version of the SINUMERIK system software, version 6.15 (or newer) must be used.

Article description	Article number	Picture	Technical data	Link
NCU 1740	6FC5317-4AA00-0AA0		SINUMERIK ONE NCU 1740 with PLC-1500F	<a href="#">Industry Mall</a>
NCU 1750	6FC5317-5AA00-0AA0		SINUMERIK ONE NCU 1750 with PLC-1500F incl. twin fan module	<a href="#">Industry Mall</a>
NCU 1760	6FC5317-6AA00-0AA0		SINUMERIK ONE NCU 1760 with PLC-1500F incl. twin fan module	<a href="#">Industry Mall</a>



### 3.2.2. SINUMERIK 840D sl NCUs

**Important:**




The choice of the CNC controller (SINUMERIK ONE or 840D sl) has to be clarified with the responsible electrical planning department.

**Important:**

For the engineering of the SINUMERIK 840D sl, generally STEP 7 Classic has to be used. Generally, export versions of the SINUMERIK system software version 4.95 (or newer) have to be used.



**Important:**

The use of the IPC427E with the Windows 10 2019 LTSC operating system or the new operator components such as MCP 1900 and HT 10 with SINUMERIK 840D sl is only possible with the SINUMERIK system software version 4.95.

Article description	Article number	Picture	Technical data	Link
840D sl NCU 710.3B PN	6FC5371-0AA30-0AB0		SINUMERIK 840D SL NCU 710.3B PN WITH PLC 317-3 PN/DP INCL. DUAL FAN/BATTERY MODULE AND BATTERY	<a href="#">Industry Mall</a>
840D sl NCU 720.3B PN	6FC5372-0AA30-0AB0		SINUMERIK 840D SL NCU 720.3B PN WITH PLC 317-3 PN/DP INCL. DUAL FAN / BATTERY MODULE AND BATTERY	<a href="#">Industry Mall</a>
840D sl NCU 730.3B PN	6FC5373-0AA30-0AB0		SINUMERIK 840D SL NCU 730.3B PN WITH PLC 317-3 PN/DP INCL. DUAL FAN / BATTERY MODULE AND BATTERY	<a href="#">Industry Mall</a>

### 3.2.3. SIMATIC S7

#### 3.2.3.1. Power Supplies


Article description	Article number	Picture	Technical data	Link
S7-1500 System Power Supply PS 25W DC 24V	6ES7505-0KA00-0AB0		SIMATIC S7-1500, System power supply PS 25W 24 V DC, supplies the backplane bus of the S7-1500 with operating voltage	<a href="#">Industry Mall</a>
S7-1500 System Power Supply PS 60W 24/48/60V D	6ES7505-0RA00-0AB0		SIMATIC S7-1500, System power supply PS 60W 24/48/60 V DC, supplies the backplane bus of the S7-1500 with operating voltage	<a href="#">Industry Mall</a>

#### 3.2.3.2. CPUs




**Important:**

For the size of the SIMATIC memory card used, the size recommendation of the TIA Selection Tool must always be observed.






The SIMATIC memory card used must have a capacity of at least 256 MB. In addition, the memory reserve must be observed in accordance with the programming guidelines.

Article description	Article number	Picture	Technical data	Link
S7-1500 CPU 1512SP-1 PN (Usage is only allowed after clarifying with the responsible electrical planning department)	6ES7512-1DK01-0AB0		SIMATIC DP, CPU 1512SP-1 PN for ET 200SP, Central processing unit with Work memory 200 KB for program and 1 MB for data, 1st interface: PROFINET IRT with 3-port switch, 48 ns bit performance, SIMATIC Memory Card required, BusAdapter required for Port 1 and 2	<a href="#">Industry Mall</a>




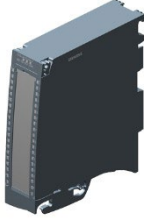


Article description	Article number	Picture	Technical data	Link
S7-1500 CPU 1512SP F-1 PN (Usage is only allowed after clarifying with the responsible electrical planning department)	6ES7512-1SK01-0AB0		SIMATIC DP, CPU 1512SP F-1 PN for ET 200SP, Central processing unit with Work memory 300 KB for program and 1 MB for data, 1st interface: PROFINET IRT with 3-port switch, 48 ns bit performance, SIMATIC Memory Card required, BusAdapter required for Port 1 and 2	<a href="#">Industry Mall</a>
S7-1500 CPU 1515-2 PN (Usage is only allowed after clarifying with the responsible electrical planning department)	6ES7515-2AM02-0AB0		SIMATIC S7-1500, CPU 1515-2 PN, central processing unit with 500 KB work memory for program and 3 MB for data, 1st interface: PROFINET IRT with 2-port switch, 2nd interface: PROFINET RT, 30 ns bit performance, SIMATIC Memory Card required	<a href="#">Industry Mall</a>
S7-1500 CPU 1515F-2 PN	6ES7515-2FM02-0AB0		SIMATIC S7-1500F, CPU 1515F-2 PN, central processing unit with work memory 750 KB for program and 3 MB for data, 1st interface: PROFINET IRT with 2-port switch, 2nd interface: PROFINET RT, 30 ns bit performance, SIMATIC Memory Card required	<a href="#">Industry Mall</a>



Article description	Article number	Picture	Technical data	Link
S7-1500 CPU 1516F-3 PN/DP	6ES7516-3FN02-0AB0		SIMATIC S7-1500F, CPU 1516F-3 PN/DP, central processing unit with 1.5 MB work memory for program and 5 MB for data, 1st interface: PROFINET IRT with 2-port switch, 2nd interface: PROFINET RT, 3rd interface: PROFIBUS, 10 ns bit performance, SIMATIC Memory Card required	<a href="#">Industry Mall</a>
S7-1500 CPU 1517F-3 PN/DP	6ES7517-3FP00-0AB0		SIMATIC S7-1500F, CPU 1517F-3 PN/DP, Central processing unit with Work memory 3 MB for Program and 8 MB for data, 1st interface: PROFINET IRT with 2-port switch, 2nd interface: PROFINET RT, 3rd interface: PROFIBUS, 2 ns bit performance, SIMATIC Memory Card required	<a href="#">Industry Mall</a>
SIMATIC S7 Memory Card 256 MByte	6ES7954-8LL03-0AA0		SIMATIC S7, MEMORY CARD FOR S7-1X00 CPU, 3,3 V FLASH, 256 MBYTE	<a href="#">Industry Mall</a>
SIMATIC S7 Memory Card 2 GByte	6ES7954-8LP03-0AA0		SIMATIC S7, memory cards for S7-1x 00 CPU, 3, 3V Flash, 2 GB	<a href="#">Industry Mall</a>
SIMATIC S7 Memory Card 32 GByte	6ES7954-8LT03-0AA0		SIMATIC S7, memory cards for S7-1x 00 CPU, 3, 3V Flash, 32 GB	<a href="#">Industry Mall</a>

### 3.2.3.3. Input / Output Modules




Article description	Article number	Picture	Technical data	Link
S7-1500 Digital Input DI 32xDC 24V HF	6ES7521-1BL00-0AB0		SIMATIC S7-1500, digital input module DI 32x24 V DC HF, 32 channels in groups of 16; Input delay 0.05..20 ms Input type 3 (IEC 61131); Diagnostics, hardware interrupts: Front connector (screw terminals or push-in) to be ordered separately	<a href="#">Industry Mall</a>
S7-1500 Digital Output DQ 8xDC 24V/2A HF	6ES7522-1BF00-0AB0		SIMATIC S7-1500, digital output module DQ 8x24 V DC/2A HF; 8 channels in groups of 8; 8 A per group; Diagnostics, substitute value: Front connector (screw terminals or push-in) to be ordered separately	<a href="#">Industry Mall</a>
S7-1500 Digital Output DQ16xDC 24V/0,5A HF	6ES7522-1BH01-0AB0		SIMATIC S7-1500, digital output module DQ16x24 V DC/0.5 A HF; 16 channels in groups of 8; 4 A per group; Single-channel diagnostics; Substitute value: Front connector (screw terminals or push-in) to be ordered separately	<a href="#">Industry Mall</a>
S7-1500 Digital Output DQ 32xDC 24V/0,5A HF	6ES7522-1BL01-0AB0		SIMATIC S7-1500, digital output module DQ 32x24 V DC/0.5 A HF; 32 channels in groups of 8; 4 A per group; Single-channel diagnostics; Substitute value: Front connector (screw terminals or push-in) to be ordered separately	<a href="#">Industry Mall</a>




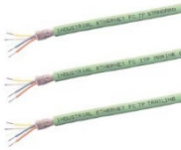


Article description	Article number	Picture	Technical data	Link
S7-1500 Digital Input F-DI 16x 24VDC	6ES7526-1BH00-0AB0		SIMATIC S7-1500, F digital input module, F-DI 16x 24 V DC PROFIsafe; 35 mm width; up to PL E (ISO 13849-1)/ SIL 3 (IEC 61508)	<a href="#">Industry Mall</a>
S7-1500 Digital Output F-DQ 8x 24VDC 2A	6ES7526-2BF00-0AB0		SIMATIC S7-1500, F digital output module, F-DQ 8x 24 V DC 2A PPM PROFIsafe; 35 mm width; up to PL E (ISO 13849-1)/ SIL3 (IEC 61508)	<a href="#">Industry Mall</a>
S7-1500 Analog Input AI 4xU/I/RTD/TC ST	6ES7531-7QD00-0AB0		SIMATIC S7-1500, Analog input module AI 4xU/I/RTD/TC ST, 16 bit resolution, Accuracy 0.3%, 4 channels in groups of 4, 2 channels for RTD measurement, "Common mode voltage 10 V; diagnostics; Hardware interrupts incl. push-in front connector, infeed element, shield bracket, shield terminal	<a href="#">Industry Mall</a>
S7-1500 Analog output AO 2x U/I ST	6ES7532-5NB00-0AB0		SIMATIC S7-1500 Analog output module AQ 2x U/I ST, 16 bit resolution, accuracy 0.3%. 2 channels in groups of 2; Diagnostics; Substitute value; Delivery including push-in front connector, infeed element, shield bracket and shield terminal	<a href="#">Industry Mall</a>



### 3.2.3.4. Communication

Article description	Article number	Picture	Technical data	Link
SIMATIC PN/PN Coupler	6ES7158-3AD10-0XA0		SIMATIC PN/PN Coupler for deterministic data exchange between max.4 PN-Controller per subnet, also from subnet to subnet, PROIsafe data exchange, I/O-, MSI-, MSO- and data record communication, redundant power supply, PN-connection via SIMATIC BusAdapter (BA), delivery w/o BusAdapter	<a href="#">Industry Mall</a>
S7-1500 CM 8xIO-Link	6ES7547-1JF00-0AB0		S7-1500, CM 8xIO-Link, communication module IO-Link Master V1.1; Front connector (screw terminals or push-in) to be ordered separately	<a href="#">Industry Mall</a>
ET 200SP CP 1543SP-1 (Usage is only allowed after clarifying with the responsible electrical planning department, Note: Cannot be used for OPC UA connection!)	6GK7543-6WX00-0XE0		Communications processor CP 1543SP-1 for connection of an SIMATIC S7-ET 200SP to Industrial Ethernet; Security (firewall and VPN) Open IE communication (TCP/IP, ISO-on-TCP, UDP) PG/OP, S7 routing, IP broadcast/multicast, SNMPV1/V3, DHCP, secure email, IPV4/IPV6, support of SINEMA Remote Connect with autoconfiguration, time-of-day synchronization via NTP, access to web server of CPU, bus adapter required	<a href="#">Industry Mall</a>




Article description	Article number	Picture	Technical data	Link
S7-1500 CP 1543-1	6GK7543-1AX00-0XE0		Communications processor CP 1543-1 for connection of SIMATIC S7-1500 to Industrial Ethernet; TCP/IP, ISO, UDP, S7 communication, IP Broadcast/ Multicast, security (VPN, Firewall) Diagnostics SNMPV1/V3, DHCP, FTP client/server, Email, IPv4/IPv6, Time synchronization via NTP, 1x RJ45 (10/100/1000 MB)	<a href="#">Industry Mall</a>
Industrial Ethernet FC TP flexible Cable (maximum cable length 85 m)	6XV1870-2B		Industrial Ethernet FC TP flexible cable, GP 2x2 (PROFINET Type B), TP installation cable with flexible cores, PROFINET type B, 4-core, shielded Cat 5, sold by the meter, delivery length max. 2500 m minimum order 20 m	<a href="#">Industry Mall</a>
Industrial Ethernet FC TP Trailing Cable (maximum cable length 85 m)	6XV1870-2D		Industrial Ethernet FC TP Trailing cable GP 2x2 (PROFINET Type C), TP installation cable for Festooning, 4-core, CAT. 5, Sold by the meter (3 million bending cycles), delivery unit max. 1000 m, Minimum order 20 m	<a href="#">Industry Mall</a>
Industrial Ethernet TP Torsion Cable (maximum cable length 55 m, cannot be assembled with FastConnect Stripping Tool)	6XV1870-2F		Industrial Ethernet TP Torsion Cable, 2x2 (PROFINET Type C), TP installation cable, 4-core, for use in highly flexible applications (torsion), sold by the meter, Max. delivery length 1000 m, Minimum order 20 m	<a href="#">Industry Mall</a>





Article description	Article number	Picture	Technical data	Link
Industrial Ethernet FastConnect RJ45 Plug 180	6GK1901-1BB10-2AA0		Industrial Ethernet FastConnect RJ45 plug 180 2x 2, RJ45 plug-in connector (10/100 Mbit/s) with rugged metal enclosure and FC connection system, for IE FC Cable 2x 2; 180° cable outlet 1 pack = 1 unit	<a href="#">Industry Mall</a>
Industrial Ethernet FastConnect RJ45 Plug 90	6GK1901-1BB20-2AA0		Industrial Ethernet FastConnect RJ45 plug 90 2x 2, RJ45 plug-in connector (10/100 Mbit/s) with rugged metal enclosure and FC connection system, for IE FC Cable 2x 2; 90° cable outlet 1 pack =1 unit	<a href="#">Industry Mall</a>
Industrial Ethernet FastConnect RJ45 Plug 145	6GK1901-1BB30-0AA0		Industrial Ethernet FastConnect RJ45 plug 145 2x 2, RJ45 plug-in connector (10/100 Mbit/s) with rugged metal enclosure and FC connection system, for IE FC Cable 2x 2; 145° cable outlet 1 pack =1 unit	<a href="#">Industry Mall</a>
Industrial Ethernet FastConnect M12 Plug PRO	6GK1901-0DB20-6AA0		Industrial Ethernet FastConnect M12 plug PRO 2x2 M12 plug-in connector with rugged metal enclosure and FC connection method, with axial cable outlet (D-coded) 1 pack=1 unit for SCALANCE X208 PRO and ET 200 PRO PN	<a href="#">Industry Mall</a>
Industrial Ethernet FastConnect Stripping Tool	6GK1901-1GA00		Industrial Ethernet FastConnect stripping tool, Stripping tool for fast stripping of the IE FastConnect cables	<a href="#">Industry Mall</a>





### 3.2.3.5. ET 200MP (IP20)

Article description	Article number	Picture	Technical data	Link
ET 200MP IM 155-5 PN ST	6ES7155-5AA01-0AB0		SIMATIC ET 200MP. PROFINET IO-DEVICE INTERFACEMODULE IM 155-5 PN ST FOR ET 200MP ELEKTRONIKMODULE S; UP TO 12 IO- MODULES WITHOUT ADDITIONAL PS; UP TO 30 IO- MODULES WITH ADDITIONONAL PS SHARED DEVICE; MRP; IRT >=0.25MS; ISOCHRONICITY FW- UPDATE; I&M0...3; FSU WITH 500MS	<a href="#">Industry Mall</a>






### 3.2.3.6. ET 200SP (IP20)

Article description	Article number	Picture	Technical data	Link
SIPLUS ET 200SP Bus Adapter	6AG1193-6AR00-7AA0		SIPLUS ET 200SP Bus Adapter BA 2xRJ45 - 40...+70°C with conformal coating based on 6ES7193- 6AR00-0AA0 . Bus Adapter BA 2xRJ45 2xRJ45 sockets for PROFINET	<a href="#">Industry Mall</a>
ET 200SP Digital Input Module DI 8x 24VDC Standard	6ES7131-6BF01-0BA0		SIMATIC ET 200SP, Digital input module, DI 8x 24V DC Standard, type 3 (IEC 61131), sink input, (PNP, P-reading), Packing unit: 1 piece, fits to BU-type A0, Colour Code CC01, input delay time 0,05..20ms, module diagnostics for: short- circuit of sensor supply, wire break, supply voltage	<a href="#">Industry Mall</a>



Article description	Article number	Picture	Technical data	Link
ET 200SP Digital Output Module DQ 4x 24VDC/2A Standard	6ES7132-6BD20-0BA0		SIMATIC ET 200SP, digital output module, DQ 4x 24VDC/2A Standard, suitable for BU type A0, Color code CC02, Module diagnostics	<a href="#">Industry Mall</a>
ET 200SP Digital Output Module DQ 8x 24VDC/0,5A Standard	6ES7132-6BF01-0BA0		SIMATIC ET 200SP, Digital output module, DQ 8x 24V DC/0,5A Standard, Source output (PNP,P-switching) Packing unit: 1 piece, fits to BU-type A0, Colour Code CC02, substitute value output, module diagnostics for: short-circuit to L+ and ground, wire break, supply voltage	<a href="#">Industry Mall</a>
ET 200SP Digital Output Module DQ 16x 24VDC/0,5A Standard	6ES7132-6BH01-0BA0		SIMATIC ET 200SP, Digital output module, DQ 16x 24V DC/0,5A Standard, Source output (PNP,P-switching) Packing unit: 1 piece, fits to BU-type A0, Colour Code CC00, substitute value output, module diagnostics for: short-circuit to L+ and ground, wire break, supply voltage	<a href="#">Industry Mall</a>
ET 200SP Analog Input Module AI 2x U/I 2-,4-Wire High Feature	6ES7134-6HB00-0CA1		SIMATIC ET 200SP, Analog input module, AI 2x U/I 2-,4-wire High Feat., suitable for BU type A0, A1, Color code CC05, channel diagnostics, 16 bit, +/- 0.1%	<a href="#">Industry Mall</a>








Article description	Article number	Picture	Technical data	Link
ET 200SP Analog Input Module AI 4xRTD/TC High Feature	6ES7134-6JD00-0CA1		SIMATIC ET 200SP, Analog input module, AI 4xRTD/TC High Feature, suitable for BU type A0, A1, Color code CC00, channel diagnostics, 16 bit, +/- 0.1%, 2-/3-/4-wire	<a href="#">Industry Mall</a>
ET 200SP Analog Input Module, AI Energy Meter CT ST (Usage is only allowed after clarifying with the responsible electrical planning department)	6ES7134-6PA01-0BU0		SIMATIC ET 200SP, analog input module, AI Energy Meter CT ST, for 1A or 5A current transformer, suitable for BU type U0, channel diagnostics	<a href="#">Industry Mall</a>
ET 200SP Analog Output Module AQ 4XU/I Standard	6ES7135-6HD00-0BA1		SIMATIC ET 200SP, Analog output module, AQ 4XU/I Standard, suitable for BU type A0, A1, Color code CC00, Module diagnostics, 16 bit, +/- 0.3%	<a href="#">Industry Mall</a>
ET 200SP Electronic Module F-DI 8x 24VDC HF	6ES7136-6BA01-0CA0		SIMATIC DP, electronic module for ET 200SP, F-DI 8x 24 V DC HF, 15 mm width, up to PLE (ISO 13849-1)/ SIL3 (IEC 61508)	<a href="#">Industry Mall</a>
ET 200SP Electronic Module F- DQ 4XDC 24V/2A	6ES7136-6DB00-0CA0		SIMATIC DP, Electronics module for ET 200SP, F-DQ 4X24 V DC/2A, 15 mm width, up to PL E (ISO 13849) up to SIL 3 (IEC 61508)	<a href="#">Industry Mall</a>



Article description	Article number	Picture	Technical data	Link
ET 200SP Electronic Module ET200SP F-RQ 1x 24VDC/24.230VA C/5A ST	6ES7136-6RA00-0BF0		SIMATIC DP, Electronics module f. ET200SP, F-RQ 1x 24 V DC/24..230VAC/5A ST, 20 mm overall width, 1 relay output (2 NO) Summation output current 5 A, load voltage 24 V DC and 24.. 230 V AC, Can be used up to PL E (ISO 13849-1: 2008)/ SIL 3 (IEC 61508: 2010) if control takes place by (e.g. 6ES7136-6DB00- 0CA0) F-DQ	<a href="#">Industry Mall</a>
ET 200SP CM 4xIO-Link ST	6ES7137-6BD00-0BA0		SIMATIC ET 200SP, CM 4xIO-Link ST Communication module IO-Link Master V1.1	<a href="#">Industry Mall</a>
ET 200SP TM Posinput	6ES7138-6BA01-0BA0		SIMATIC ET 200SP, TM Posinput 1 counter and position decoder module for RS-422 incremental encoder or SSI absolute encoder, 2 DI, 2 DQ suitable for BU type A0, pack quantity: 1 unit	<a href="#">Industry Mall</a>
ET 200SP Interface Module IM 155-6PN Standard	6ES7155-6AU01-0BN0		SIMATIC ET 200SP, PROFINET interface module IM 155-6PN Standard, max. 32 I/O modules, and 16 ET 200AL modules, single hot swap, incl. server module (6ES7193- 6PA00-0AA0)	<a href="#">Industry Mall</a>








### 3.2.3.7. ET 200pro (IP65)

Article description	Article number	Picture	Technical data	Link
ET 200pro DSE ST Direct Starter, 0,9kW	3RK1304-5KS40-4AA3		ET 200pro DSE ST DOL starter Standard Mechanical switching Electronic overload protection AC-3, 0.9 kW / 400 V 0.15 A...2.00 A Brake contact 400 V AC Han Q4/2 - Han Q8/0	<a href="#">Industry Mall</a>
ET 200pro RSE ST Reversing Starter, 0,9kW	3RK1304-5KS40-5AA3		ET 200pro RSE ST Reversing starter standard Mechanical switching Electronic overload protection AC-3, 0.9 kW / 400 V 0.15 A...2.00 A Brake contact 400 V AC Han Q4/2 - Han Q8/0	<a href="#">Industry Mall</a>
ET 200pro DSE ST Direct Starter, 5,5kW	3RK1304-5LS40-4AA3		ET 200pro DSE ST DOL starter Standard Mechanical switching Electronic overload protection AC-3, 5.5 kW / 400 V 1.50 A...12.00 A Brake contact 400 V AC Han Q4/2 - Han Q8/0	<a href="#">Industry Mall</a>
ET 200pro RSE ST Reversing Starter, 5,5kW	3RK1304-5LS40-5AA3		ET 200pro RSE ST Reversing starter standard Mechanical switching Electronic overload protection AC-3, 5.5 kW / 400 V 1.50 A...12.00 A Brake contact 400 V AC Han Q4/2 - Han Q8/0	<a href="#">Industry Mall</a>
ET 200pro Electronic Module 8 DI DC 24V	6ES7141-4BF00-0AA0		SIMATIC DP, Electronic module for ET 200 PRO 8 DI 24 V DC, Module diagnostics; incl. bus module, Connection module IO 6ES7194-4..00-0AA0 order separately	<a href="#">Industry Mall</a>





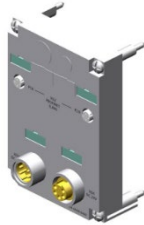


Article description	Article number	Picture	Technical data	Link
ET 200pro Electronic Module, 4 DO DC 24V, 2,0A	6ES7142-4BD00-0AA0		SIMATIC DP, electronic module for ET 200 PRO, 4 DO 24 V DC, 2.0A; Module diagnostics; incl. bus module, Connection module IO 6ES7194-4..00-0AA0 order separately	<a href="#">Industry Mall</a>
ET 200pro Electronic Module 8 DO DC 24V, 0.5A	6ES7142-4BF00-0AA0		SIMATIC DP, Electronic modules for ET 200 PRO 8 DO 24 V DC, 0.5 A Module diagnostics; incl. bus module, Connection module IO 6ES7194-4..00-0AA0 order separately	<a href="#">Industry Mall</a>
ET 200pro Electronic Module 4 AI U High Feature	6ES7144-4FF01-0AB0		SIMATIC DP, Electronic module for ET 200 PRO 4 AI U High Feature, +-10 V; 0...10 V; +-5 V; 1...5V; Channel diagnostics; incl. bus module, Connection module IO 6ES7194-4..00-0AA0 order separately	<a href="#">Industry Mall</a>
ET 200pro Electronic Module 4 AI I High Feature	6ES7144-4GF01-0AB0		SIMATIC DP, Electronic module for ET 200 PRO 4 AI I High Feature, +-20 mA; 0...20 mA; 4-20mA; Channel diagnostics; incl. bus module, Connection module IO 6ES7194-4..00-0AA0 order separately	<a href="#">Industry Mall</a>
ET 200pro Electronic Module 4 AO U High Feature	6ES7145-4FF00-0AB0		SIMATIC DP, Electronic modules for ET 200 PRO 4 AO U High Feature, +-10 V; 0...10V; 1...5V, Channel diagnostics; incl. bus module, Connection module IO 6ES7194-4..00-0AA0 order separately	<a href="#">Industry Mall</a>



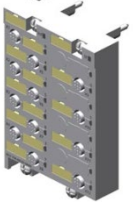
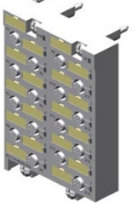


Article description	Article number	Picture	Technical data	Link
ET 200pro Electronic Module 4 AO I High Feature	6ES7145-4GF00-0AB0		SIMATIC DP, Electronic modules for ET 200 PRO 4 AO I High Feature, +-20 mA; 0...20 mA; 4-20mA; Channel diagnostics; incl. bus module, Connection module IO 6ES7194-4..00-0AA0 order separately	<a href="#">Industry Mall</a>
ET 200pro 4 IO- Link High Feature	6ES7147-4JD00-0AB0		SIMATIC DP, electronic module for ET 200pro 4 IO-Link High Feature, Channel diagnostics, including bus module, Connection module IO 6ES7194-4CA20-0AA0 order separately	<a href="#">Industry Mall</a>
ET 200pro Power Module for Electronic Modules PM-E	6ES7148-4CA00-0AA0		SIMATIC DP, Power module for Electronic modules ET 200 PRO PM-E, 24 V DC, incl. bus module, connection module PM-E 6ES7194-4B.00- 0AA0 order separately	<a href="#">Industry Mall</a>
ET 200pro Fail-safe Electronic Module 8/16 F- DI	6ES7148-4FA00-0AB0		SIMATIC DP, ET200 PRO Fail-safe electronic module 8/16 F-DI 24 V DC PROFIsafe, 90 mm overall width, up to Category 4 (EN 954-1)/ SIL3 (IEC61508)/PLE (ISO13849)	<a href="#">Industry Mall</a>
ET 200pro Fail-safe Electronic Module 4/8 F- DI/4 F-DO	6ES7148-4FC00-0AB0		SIMATIC DP, ET200 PRO Fail-safe electronic module 4/8 F-DI/4 F-DO 24 V DC/2A PROFIsafe, 90 mm overall width, up to Category 4 (EN 954-1)/ SIL3 (IEC61508)/PLE (ISO13849)	<a href="#">Industry Mall</a>





Article description	Article number	Picture	Technical data	Link
ET 200pro Failsafe Electronic Module F- Switch PROFIsafe	6ES7148-4FS00-0AB0		SIMATIC DP, ET200 PRO Fail-safe electronic module F-switch PROFIsafe, 3 fail-safe PP-switching outputs for safe switching of the backplane busbars (2L+, F0, F1), 2 fail-safe digital inputs, 45mm, up to Category 4 (EN 954-1)/ SIL3 (IEC61508)/PLE (ISO13849)	<a href="#">Industry Mall</a>
ET 200pro Interface Module IM 154- 4 PN, High Feature	6ES7154-4AB10-0AB0		SIMATIC DP, PROFINET Interface module IM 154-4 PN, High Feature for ET 200 PRO, Integrated switch, incl. termination module, connection module in PN 6ES7194-4A.00-0AA0 order separately	<a href="#">Industry Mall</a>
ET 200pro Connection Module for PROFINET Interface Modules, 2x M12 und 2x 7/8"	6ES7194-4AJ00-0AA0		SIMATIC DP, Connection module for PROFINET interface module, ET 200 PRO; M12/7/8", 2x M12 and 2x 7/8"	<a href="#">Industry Mall</a>
ET 200pro Connection Module for Power Modules, 1x 7/8"	6ES7194-4BD00-0AA0		SIMATIC DP, Connection module for Power module PM-E ET 200 PRO 7/8", 1x 7/8"	<a href="#">Industry Mall</a>
ET 200pro Connection Module for Digital and Analog Electronic Modules, 4xM12	6ES7194-4CA00-0AA0		SIMATIC DP, Connection module for Digital and analog Electronic modules ET 200 PRO, 4xM12	<a href="#">Industry Mall</a>




Article description	Article number	Picture	Technical data	Link
ET 200pro Connection Module for Digital Electronic Modules, 8xM12	6ES7194-4CB00-0AA0		SIMATIC DP, Connection module for Digital electronic modules ET 200 PRO, 8xM12	<a href="#">Industry Mall</a>
ET 200pro Connection Module for the Failsafe Electronic Module F-Switch	6ES7194-4DA00-0AA0		SIMATIC DP, ET 200 PRO Connection module for the fail-safe electronic module F-switch PROFIsafe	<a href="#">Industry Mall</a>
ET 200pro Connection Module for the Failsafe Electronic Module 4/8 F-DI/4 F-DO	6ES7194-4DC00-0AA0		SIMATIC DP, ET 200 PRO Connection module for the fail-safe electronic module 4/8 F-DI/4 F-DO 24 V DC/2A	<a href="#">Industry Mall</a>
ET 200pro Connection Module for the Failsafe Electronic Module 8/16 F-DI	6ES7194-4DD00-0AA0		SIMATIC DP, ET 200 PRO Connection module for the fail-safe electronic module 8/16 F-DI 24 V DC	<a href="#">Industry Mall</a>

### 3.2.3.8. RFID

Article description	Article number	Picture	Technical data	Link
RFID Communication Module RF185C for 1 Reader	6GT2002-0JE10		RFID Communication Module RF185C for Profinet, Ethernet, 1 Reader can be connected	<a href="#">Industry Mall</a>
RFID Communication Module RF186C for 2 Readers	6GT2002-0JE20		RFID Communication Module RF186C for Profinet, Ethernet, 2 Reader can be connected	<a href="#">Industry Mall</a>



Article description	Article number	Picture	Technical data	Link
RFID Communication Module RF188C for 4 Readers	6GT2002-0JE40		RFID Communication Module RF188C for Profinet, Ethernet, 4 Reader can be connected	<a href="#">Industry Mall</a>
RF300 Transponder RF340T 8 KByte	6GT2800-4BB00		SIMATIC RF300 Transponder RF340T 8 KB FRAM, IP67/X9K, -25 to +85 °C, 48x2 5x 15 mm, Minimum order quantity 5 units	<a href="#">Industry Mall</a>
RF300 Transponder RF320T Knopf 20 Byte	6GT2800-1CA00		SIMATIC RF300 Transponder RF320T button, 20 byte EEPROM, IP67, -25 to +125 °C, D= 27x 4 mm, Minimum ordering quantity 20 units	<a href="#">Industry Mall</a>
RF300 Transponder RF350T 32 KByte	6GT2800-5BD00		SIMATIC RF300 Transponder RF350T 32 KB FRAM, IP68, -25 to +85 °C, 50x 50x 20 mm incl. mounting frame	<a href="#">Industry Mall</a>
RF300 Transponder RF370T 64 KByte	6GT2800-6BE00		SIMATIC RF300 Transponder RF370T 64 KB FRAM IP68, -25 to +85 °C, 75x 75x 40 mm	<a href="#">Industry Mall</a>
RF300 Reader RF310R (GEN2)	6GT2801-1BA10		SIMATIC RF300; Reader RF310R (GEN2); RS422 interface (3964R); IP67. -25 to +70 °C, 55x 75x 30 mm, with integrated antenna	<a href="#">Industry Mall</a>
RF300 Reader RF340R (GEN2)	6GT2801-2BA10		SIMATIC RF300; Reader RF340R (GEN2); RS422 interface (3964R); IP67. -25 to +70 °C, 75x 75x 41 mm with integrated antenna	<a href="#">Industry Mall</a>





Article description	Article number	Picture	Technical data	Link
RF200/RF300 Screw Transponder MDS D428 2000 Byte	6GT2600-4AK00-0AX0		Transponder MDS D428 for RF200/RF300 ISO/MOBY D Screw transponder M8 long; ISO 15693, Chip type FUJITSU MB89R118, 2000 byte FRAM User memory 24x 20 mm (DxH); SW22; with support Minimum order quantity 5 units	<a href="#">Industry Mall</a>

### 3.2.3.9. Power Monitoring Devices for Power Distribution

The usage of the components specified in this chapter is allowed after clarifying with the responsible electrical planning department, an approval in written form is necessary.

Article description	Article number	Picture	Technical data	Link
SENTRON Power Monitoring Device PAC3220, 2 Expansion Slots (Usage is only allowed after clarifying with the responsible electrical planning department)	7KM3220-0BA01-1DA0		SENTRON PAC3220 LCD 96X96 mm Power Monitoring Device Control panel instrument for electrical values protocol: Modbus TCP with graphics display U rated input: 690/400V 45-65Hz IE rated input: X/1A oder X/5A AC Power supply: 100 ... 250 V +-10 % AC/DC screw connections	<a href="#">Industry Mall</a>
SENTRON Measuring Instrument PAC4200, 2 Expansion Slots	7KM4212-0BA00-3AA0		SENTRON, measuring device, 7KM PAC4200, LCD, L-L: 690 V, L-N: 400 V, 5 A, 3-phase, Modbus TCP, optional Modbus RTU / PROFINET / PROFIBUS / DI/DO, apparent/active/reactive energy / cos phi, harmonics: 3.-31., THD, class 0.2 acc. to IEC61557-12 or cl. 0.2S acc. to IEC62053-22, wide-range pwr sup. unit AC/DC, screw terminals	<a href="#">Industry Mall</a>



Article description	Article number	Picture	Technical data	Link
SENTRON Expansion Module Switched Ethernet PROFINET	7KM9300-0AE02-0AA0		expansion module switched Ethernet PROFINET V3, plug-in, for 7KM PAC32x0 / 4200 / 3VA COM100/ 800	<a href="#">Industry Mall</a>
SENTRON Expansion Module I(N), I(Diff), analog	7KM9200-0AD00-0AA0		expansion module I(N),I(Diff),analog N conductor measurement, residual current measurement, 2 analog inputs, plug-in, for 7KM PAC3200 / 4200	<a href="#">Industry Mall</a>




### 3.2.4. Operator Panels

#### 3.2.4.1. Operator Panels and Handhelds for SINUMERIK ONE

The usage of further operator panels, f. e. customer-specific versions, is allowed after clarifying with the responsible electrical planning department, an approval in written form is necessary.








**Important:**

The usage of control panels with a screen diagonal of more than 19" (ITC2200 or larger) and the associated machine control panels and push button panels is only approved after consultation with the responsible electrical department and written approval.




Article description	Article number	Picture	Technical data	Link
ITC1900 V3	6AV6646-1BA18-0NA0		SIMATIC ITC1900 V3, Industrial Thin Client, 19" widescreen TFT display, capacitive touch sensor, Supported protocols: RDP, VNC, SMARTSERVER HTML5 et. al., Neutral Design, panel mount	<a href="#">Industry Mall</a>
SIMATIC IPC427E Windows 10 2019 LTSC (For usage with Windows 10 2019 LTSC. The usage outside of machine tools is only allowed after clarifying with the responsible electrical planning department)	6AG4141-5AB15-0FA0		SIMATIC IPC427E (Microbox PC), HD graphic onboard, 4x USB V3.0 (high current), PCIE (optional), Core i5-6442EQ; 3x Gbit Ethernet (IE/PN); Without mounting accessories; 8 GB; without RS232/485; 1x PCIe (x4); Windows 10 Enterprise 2019 LTSC (64-bit), MUI (en,de,fr,it,es), for Celeron, i3 and i5, Without replaceable mass storage; 240 GB solid-state drive SATA Without SIMATIC software; 24 V DC industrial power supply	<a href="#">Industry Mall</a>
IPC427E Rail Mounting Kit	6ES7648-1AA21-0YM0		SIMATIC IPC, Mounting kit standard mounting rail for Microbox IPC427E	<a href="#">Industry Mall</a>





Article description	Article number	Picture	Technical data	Link
SITOP UPS500S 5 kW (For usage with IPC427E)	6EP1933-2EC51		SITOP UPS500S Maintenance free uninterruptible power supply with USB interface basic device 5 kW input: 24 V DC output: 24 V DC/15 A degree of protection IP20 *Ex approval no longer available*	<a href="#">Industry Mall</a>
SITOP UPS501S Expansion Module 5 kW (For usage with IPC427E)	6EP1935-5PG01		SITOP UPS501S Expansion module 5 kW for UPS500S (2.5 kW, 5 kW) degree of protection IP20 *Ex approval no longer available*	<a href="#">Industry Mall</a>
SINUMERIK MCP 1900	6FC5303-0AP02-0AA0		SINUMERIK machine control panel SINUMERIK ONE MCP 1900 Industrial Ethernet / PROFINET mechanical keys	<a href="#">Industry Mall</a>
SINUMERIK MPP 464 IEH without Override	6FC5303-1AF62-8AD0		SINUMERIK pushbutton panel MPP 464 IEH-S04 connection Industrial Ethernet with connection for HT8/HT2 without override	<a href="#">Industry Mall</a>
SINUMERIK MPP 464 IEH with Feedrate- Override	6FC5303-1AF60-8AA0		SINUMERIK Pushbutton panel MPP 464 IEH Connection Industrial Ethernet with connection for HT8/HT2 with feedrate override	<a href="#">Industry Mall</a>
SINUMERIK MPP 464 IEH with Feedrate and Spindle Override	6FC5303-1AF62-8AC0		SINUMERIK pushbutton panel MPP 464 IEH-S03 connection Industrial Ethernet with connection for HT8/HT2 with feedrate override and with spindle override	<a href="#">Industry Mall</a>
SINUMERIK Extension Module EM 464	6FC5303-1AF68-0AA0		SINUMERIK expansion module EM 464 13 free slots for components with dummy elements dimensions 464 x 95 x 38 mm	<a href="#">Industry Mall</a>






Article description	Article number	Picture	Technical data	Link
SINUMERIK Extension Module EM 464 /S01, with Mounting Slot for EKS Reader	6FC5303-1AF68-0AB0		SINUMERIK expansion module EM 464 7 free slots for components with dummy elements dimensions 464 x 95 x 38 mm	<a href="#">Industry Mall</a>
SINUMERIK Handheld Terminal HT 10H (Maximum allowed cable length is 5 m)	6FC5403-0AA21-1AA1		SINUMERIK handheld terminal HT 10H handheld terminal with 10" multi- touch display and handwheel for SINUMERIK CNC	<a href="#">Industry Mall</a>
Connection Box Advanced (for Usage with HT 10H)	6AV2125-2AE23-0AX0		SIMATIC HMI connection box Advanced for Mobile Panels, wall mounting, PROFINET and PROFI-safe, connection of safety relay, emergency stop circuit bridging, terminal detection, Integrated switch, MRP client, IRT	<a href="#">Industry Mall</a>

### 3.2.4.2. Operator Panels and Handhelds for SINUMERIK 840D sl






The usage of further operator panels, f. e. customer-specific versions, is allowed after clarifying with the responsible electrical planning department, an approval in written form is necessary.

**Important:**





The selection of the operating components for machines based on SINUMERIK 840D sl must be coordinated with the responsible electrical department.

Article description	Article number	Picture	Technical data	Link
SINUMERIK Operator Panel OP 012 (Usage is only allowed after clarifying with the responsible electrical planning department)	6FC5203-0AF02-0AA2		SINUMERIK OPERATOR PANEL FRONT OP 012, 12,1" WITH MEMBRANE KEYS AND TOUCHPAD	<a href="#">Industry Mall</a>
SINUMERIK Operator Panel OP 015 Black with integrated TCU	6FC5303-0AF14-0AA0		SINUMERIK OPERATOR PANEL OP 015 BLACK, 15" LED MULTITOUCH UND AND CAPACITIVE KEYS	<a href="#">Industry Mall</a>
ITC1900 V3 (Usage is only allowed after clarifying with the responsible electrical planning department)	6AV6646-1BA18-0NA0		SIMATIC ITC1900 V3, Industrial Thin Client, 19" widescreen TFT display, capacitive touch sensor, Supported protocols: RDP, VNC, SMARTSERVER HTML5 et. al., Neutral Design, panel mount	<a href="#">Industry Mall</a>

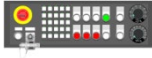


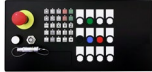




Article description	Article number	Picture	Technical data	Link
SIMATIC IPC427E Windows 10 2019 LTSC (For usage with Windows 10 2019 LTSC. The usage outside of machine tools is only allowed after clarifying with the responsible electrical planning department)	6AG4141-5AB15-0FA0		SIMATIC IPC427E (Microbox PC), HD graphic onboard, 4x USB V3.0 (high current), PCIE (optional), Core i5-6442EQ; 3x Gbit Ethernet (IE/PN); Without mounting accessories; 8 GB; without RS232/485; 1x PCIe (x4); Windows 10 Enterprise 2019 LTSC (64-bit), MUI (en,de,fr,it,es), for Celeron, i3 and i5, Without replaceable mass storage; 240 GB solid-state drive SATA Without SIMATIC software; 24 V DC industrial power supply	<a href="#">Industry Mall</a>
IPC427E Mounting Rail Kit	6ES7648-1AA21-0YM0		SIMATIC IPC, Mounting kit standard mounting rail for Microbox IPC427E	<a href="#">Industry Mall</a>
SITOP UPS500S 5 kW (For usage with IPC427E Win10)	6EP1933-2EC51		SITOP UPS500S Maintenance free Uninterruptible Power supply With USB interface Basic device 5 kW input: 24 V DC output: DC 24 V/15 A Degree of protection IP20	<a href="#">Industry Mall</a>
SITOP UPS501S Expansion Module 5 kW (For usage with IPC427E)	6EP1935-5PG01		SITOP UPS501S Expansion module 5 kW for UPS500S (2.5 kW, (5 kW, Degree of protection IP20	<a href="#">Industry Mall</a>
SINUMERIK Extension Plate 19" for MCP/MPP	6FC5247-0AA43-1AA0		SINUMERIK EXTENSION PLATE 19" FUER MCP/MPP TIGHTENER FASTENING WITH 12 SLOTS FOR 22 MM OPERATOR COMPONENTS (UNEQUIPPED)	<a href="#">Industry Mall</a>









Article description	Article number	Picture	Technical data	Link
SINUMERIK Expansion Plate 19" for MCP/MPP, VW-specific Version for EKS Reader (This version has to be used if an Euchner EKS Reader is needed)	6FC5203-0AD28-5AD0		SINUMERIK expansion panel 19" for MCP/MPP Mounting using tensioners Customer-specifically equipped based on 6FC5247-0AA43-1AA0	<a href="#">Industry Mall</a>
SINUMERIK MCP 483 PN	6FC5303-0AF22-1AA1		SINUMERIK MACHINE CONTROL PANEL MCP 483 PN PROFINET / INDUSTRIAL ETHERNET, WIDTH 19", MEMBRANE-TYPE KEY, 22 MM EMERGENCY STOP	<a href="#">Industry Mall</a>
SINUMERIK MPP 483 VW- Version A, w/o Override Switch (Usage is only allowed after clarifying with the responsible electrical planning department)	6FC5303-1AF12-8BM0		SINUMERIK Push Button Panel MPP 483 IEH-S34 Connection Industrial Ethernet with connection for HT 8 Customer-specific variant based on 6FC5303-1AF10-8AA0	<a href="#">Industry Mall</a>
SINUMERIK MPP 483 VW- Version B, with Feed Override (Usage is only allowed after clarifying with the responsible electrical planning department)	6FC5303-1AF12-8BN0		SINUMERIK Push Button Panel MPP 483 IEH-S35 Connection Industrial Ethernet with connection for HT 8 Customer-specific variant based on 6FC5303-1AF10-8AA0	<a href="#">Industry Mall</a>






Article description	Article number	Picture	Technical data	Link
SINUMERIK MPP 483 VW- Version C, with Feed and Spindle Override (Usage is only allowed after clarifying with the responsible electrical planning department)	6FC5303-1AF12-8BP0		SINUMERIK Push Button Panel MPP 483 IEH-S36 Connection Industrial Ethernet with connection for HT 8 Customer-specific variant based on 6FC5303-1AF10-8AA0	<a href="#">Industry Mall</a>
SINUMERIK TCU 30.3 (Only needed if the OP 012 is used)	6FC5312-0DA00-1AA1		SINUMERIK 840D sl TCU 30.3 (THIN CLIENT UNIT) FOR SINUMERIK/SIMOTION	<a href="#">Industry Mall</a>
SINUMERIK MCP 1900	6FC5303-0AP02-0AA0		SINUMERIK machine control panel SINUMERIK ONE MCP 1900 Industrial Ethernet / PROFINET mechanical keys	<a href="#">Industry Mall</a>
SINUMERIK MPP 464 IEH without Override	6FC5303-1AF62-8AD0		SINUMERIK pushbutton panel MPP 464 IEH-S04 connection Industrial Ethernet with connection for HT8/HT2 without override	<a href="#">Industry Mall</a>
SINUMERIK MPP 464 IEH with Feedrate- Override	6FC5303-1AF60-8AA0		SINUMERIK Pushbutton panel MPP 464 IEH Connection Industrial Ethernet with connection for HT8/HT2 with feedrate override	<a href="#">Industry Mall</a>
SINUMERIK MPP 464 IEH with Feedrate and Spindle Override	6FC5303-1AF62-8AC0		SINUMERIK pushbutton panel MPP 464 IEH-S03 connection Industrial Ethernet with connection for HT8/HT2 with feedrate override and with spindle override	<a href="#">Industry Mall</a>






Article description	Article number	Picture	Technical data	Link
SINUMERIK Extension Module EM 464	6FC5303-1AF68-0AA0		SINUMERIK expansion module EM 464 13 free slots for components with dummy elements dimensions 464 x 95 x 38 mm	<a href="#">Industry Mall</a>
SINUMERIK Extension Module EM 464 /S01, with Mounting Slot for EKS Reader	6FC5303-1AF68-0AB0		SINUMERIK expansion module EM 464 7 free slots for components with dummy elements dimensions 464 x 95 x 38 mm	<a href="#">Industry Mall</a>
SINUMERIK Handheld Terminal HT 2 (Maximum allowed cable length is 5 m)	6FC5303-0AA00-2AA0		SINUMERIK HANDHELD TERMINAL HT 2 WITH 128 x 64 PIXEL DISPLAY	<a href="#">Industry Mall</a>
SINUMERIK Handheld Terminal HT 8 (Maximum allowed cable length is 5 m)	6FC5403-0AA20-1AA1		SINUMERIK HANDHELD TERMINAL HT 8 WITH HAND WHEEL	<a href="#">Industry Mall</a>
Anschluss-Box PN plus (for usage with HT 2 or HT 8)	6AV6671-5AE11-0AX0		Connection box PN plus for Mobile Panels (PROFINET)	<a href="#">Industry Mall</a>
SINUMERIK Handheld Terminal HT 10H (Maximum allowed cable length is 5 m)	6FC5403-0AA21-1AA1		SINUMERIK handheld terminal HT 10H handheld terminal with 10" multi- touch display and handwheel for SINUMERIK CNC	<a href="#">Industry Mall</a>
Connection Box Advanced (for usage with HT 10H)	6AV2125-2AE23-0AX0		SIMATIC HMI connection box Advanced for Mobile Panels, wall mounting, PROFINET and PROFIsafe, connection of safety relay, emergency stop circuit bridging, terminal detection, Integrated switch, MRP client, IRT	<a href="#">Industry Mall</a>

### 3.2.4.3. SIMATIC HMI Panels




Article description	Article number	Picture	Technical data	Link
TP700 Comfort (Usage is only allowed after clarifying with the responsible electrical planning department)	6AV2124-0GC01-0AX0		SIMATIC HMI TP700 Comfort, Comfort Panel, Touch operation, 7" widescreen TFT display, 16 million colors, PROFINET interface, MPI/PROFIBUS DP interface, 12 MB configuration memory, Windows CE 6.0, configurable from WinCC Comfort V11	<a href="#">Industry Mall</a>
TP900 Comfort (Usage is only allowed after clarifying with the responsible electrical planning department)	6AV2124-0JC01-0AX0		SIMATIC HMI TP900 Comfort, Comfort Panel, Touch operation, 9" widescreen TFT display, 16 million colors, PROFINET interface, MPI/PROFIBUS DP interface, 12 MB configuration memory, Windows CE 6.0, configurable from WinCC Comfort V11	<a href="#">Industry Mall</a>
TP1200 Comfort	6AV2124-0MC01-0AX0		SIMATIC HMI TP1200 Comfort, Comfort Panel, Touch operation, 12" Widescreen TFT display, 16 million colors, PROFINET interface, MPI/PROFIBUS DP interface, 12 MB configuration memory, Windows CE 6.0, configurable from WinCC Comfort V11	<a href="#">Industry Mall</a>









Article description	Article number	Picture	Technical data	Link
TP1500 Comfort	6AV2124-0QC02-0AX1		SIMATIC HMI TP1500 Comfort, Comfort Panel, Touch operation, 15" widescreen TFT display, 16 million colors, PROFINET interface, MPI/PROFIBUS DP interface, 24 MB configuration memory, WEC 2013, configurable from WinCC Comfort V14 SP1 with HSP	<a href="#">Industry Mall</a>
TP1900 Comfort (Note: This device is currently not included in the HMI Lite VW Standard Sample Project, the screens have to be adapted manually to the pixel resolution)	6AV2124-0UC02-0AX1		SIMATIC HMI TP1900 Comfort, Comfort Panel, Touch operation, 19" widescreen TFT display, 16 million colors, PROFINET interface, MPI/PROFIBUS DP interface, 24 MB configuration memory, WEC 2013, configurable from WinCC Comfort V14 SP1 with HSP	<a href="#">Industry Mall</a>
TP1200 Comfort Pro (Note: For this device, the configuration of the TP1200 Comfort can be used in the HMI Lite VW Standard Sample Project)	6AV2124-0MC24-0BX0		SIMATIC HMI TP1200 Comfort Pro support arm for Extension Unit, Comfort Panel, touch operation, 12" widescreen TFT display, 16 million colors, PROFINET interface, MPI/PROFIBUS DP interface, 12 MB configuration memory, WEC 2013, configurable from WinCC Comfort V14 SP1 with HSP	<a href="#">Industry Mall</a>




Article description	Article number	Picture	Technical data	Link
TP1500 Comfort Pro (Note: This device is currently not included in the HMI Lite VW Standard Sample Project, the screens have to be adapted manually to the pixel resolution)	6AV2124-0QC24-0BX0		SIMATIC HMI TP1500 Comfort Pro, Support arm for Extension Unit, Comfort Panel, Touch operation, 15"; widescreen TFT display, 16 million colors, PROFINET interface, MPI/PROFIBUS DP interface, 24 MB configuration memory, WEC 2013, configurable from WinCC Comfort V14 SP1 with HSP	<a href="#">Industry Mall</a>
TP1900 Comfort Pro (Note: This device is currently not included in the HMI Lite VW Standard Sample Project, the screens have to be adapted manually to the pixel resolution)	6AV2124-0UC24-0BX0		SIMATIC HMI TP1900 Comfort Pro, Support arm for Extension Unit, Comfort Panel, Touch operation, 19" widescreen TFT display 16 million colors, PROFINET interface, MPI/PROFIBUS DP interface, 24 MB configuration memory, WEC 2013, configurable from WinCC Comfort V14 SP1 with HSP	<a href="#">Industry Mall</a>
Extension Unit Box 12" for Comfort Panel Pro	6AV7674-1LA30-0AA0		Extension Unit box 12" for mounting on all fully IP65-enclosed 16:9 HMI/IPC devices. Deep empty housing for the flexible installation of control elements (without pre-perforation)	<a href="#">Industry Mall</a>



Article description	Article number	Picture	Technical data	Link
Extension Unit Box 15" for Comfort Panel Pro	6AV7674-1LA40-0AA0		Extension Unit box 15" for mounting on all fully IP65-enclosed 16:9 HMI/IPC devices. Deep empty housing for the flexible installation of control elements (without pre-perforation)	<a href="#">Industry Mall</a>
Extension Unit Box 19" for Comfort Panel Pro	6AV7674-1LA50-0AA0		Extension Unit box 19" for mounting on all fully IP65-enclosed 16:9 HMI/IPC devices. Deep empty housing for the flexible installation of control elements (without pre-perforation)	<a href="#">Industry Mall</a>
Connection Box Advanced (Usage only allowed with KTP900F Mobile and TP1000F Mobile)	6AV2125-2AE23-0AX0		SIMATIC HMI connection box Advanced for Mobile Panels, wall mounting, PROFINET and PROFIsafe, connection of safety relay, emergency stop circuit bridging, terminal detection, Integrated switch, MRP client, IRT	<a href="#">Industry Mall</a>
KTP900F Mobile (The mobile panel must not be used as the main panel, but only for additional operation in areas that cannot be seen, maximum allowed cable length is 5 m)	6AV2125-2JB23-0AX0		SIMATIC HMI KTP900F Mobile, 9.0" TFT display, 800x 480 pixel, 16m colors, key and touch operation, 10 function keys, 1x PROFINET/Industrial Ethernet interface, 1x multimedia card, 1x USB, Key-operated switch, acknowledgement button, 1 emergency stop/stop button configurable from WinCC Comfort V13 SP1	<a href="#">Industry Mall</a>





Article description	Article number	Picture	Technical data	Link
TP1000F Mobile (The mobile panel must not be used as the main panel, but only for additional operation in areas that cannot be seen, maximum allowed cable length is 5 m)	6AV2145-6KB20-0AS0		SIMATIC HMI TP1000F MOBILE 10.0" TFT display, 1280x800 pixels, 16 million colors, Touch operation, touch pen, 1x PROFINET/Industrial Ethernet interface, 1x multimedia card, 1x USB, key-operated switch, acknowledgement button, 1 emergency stop/stop button configurable from WinCC Comfort V14	<a href="#">Industry Mall</a>




### 3.2.5. SCALANCE

The usage of SCALANCE components is allowed after clarifying with the responsible electrical planning department, an approval in written form is necessary.



#### 3.2.5.1. SCALANCE X – Managed Switches

Article description	Article number	Picture	Technical data	Link
SCALANCE XC206-2SFP (Usage of a C-Plug for storing the configuration is mandatory)	6GK5206-2BS00-2AC2		SCALANCE XC206-2SFP manageable Layer 2 IE switch; IEC 62443-4-2 certified; 6x 10/100 MBit/s RJ45 ports; 2x 100/1000 Mbit/s SFP; 1x console port; diagnostics LED; redundant power supply; temperature range -40 °C to +70 °C; assembly: DIN rail/S7 mounting rail/wall Office redundancy functions features (RSTP, VLAN,...); PROFINET IO device; Ethernet/IP-compliant; C-plug slot;	<a href="#">Industry Mall</a>
SCALANCE XC206-2SFP G (Usage of a C-Plug for storing the configuration is mandatory, usage is only allowed after clarifying with the responsible electrical planning department)	6GK5206-2GS00-2AC2		SCALANCE XC206-2SFP G manageable Layer 2 IE switch; IEC 62443-4-2 certified; 6x 10/100/1000 Mbit/s RJ45 ports; 2x 1000 Mbit/s SFP; 1x console port; diagnostics LED; redundant power supply; temperature range -40 °C to +70 °C; assembly: DIN rail/S7 mounting rail/wall; redundancy functions; office features (RSTP, VLAN,...); PROFINET IO device; Ethernet/IP-compliant; C-PLUG slot;	<a href="#">Industry Mall</a>





Article description	Article number	Picture	Technical data	Link
SCALANCE XC208 (Usage of a C-Plug for storing the configuration is mandatory)	6GK5208-0BA00-2AC2		SCALANCE XC208 manageable layer 2 IE Switch; 8x 10/100 Mbit/s RJ45 ports; 1x console port; Diagnostic LED; Redundant power supply; Temp. range -40°C to +70 °C Mounting: Standard Mounting Rail/S7 Profile Rail/Wall Office redundancy functions features (RSTP, VLAN ,...); PROFINET IO device Ethernet/IP-compliant C-PLUG shaft;	<a href="#">Industry Mall</a>
SCALANCE XC208G (Usage of a C-Plug for storing the configuration is mandatory, usage is only allowed after clarifying with the responsible electrical planning department)	6GK5208-0GA00-2AC2		SCALANCE XC208G manageable Layer 2 IE switch; IEC 62443-4-2 certified; 8x 10/100/1000 Mbit/s; RJ45 ports; 1x console port; diagnostics LED; redundant power supply; temperature range -40 °C to +70 °C; assembly: DIN rail/S7 mounting rail/wall redundancy functions; office features (RSTP, VLAN,...); PROFINET IO device;	<a href="#">Industry Mall</a>
SCALANCE XC216 (Usage of a C-Plug for storing the configuration is mandatory)	6GK5216-0BA00-2AC2		SCALANCE XC216 manageable layer 2 IE Switch; 16X 10/100 Mbit/s RJ45-Ports; 1x console port, Diagnostic LED; Redundant power supply; Temp. range -40°C to +70 °C Mounting: Standard Mounting Rail/S7 Profile Rail/Wall Office redundancy functions features (RSTP, VLAN ,...); PROFINET IO Device; Ethernet/IP compliance C-PLUG shaft;	<a href="#">Industry Mall</a>



Article description	Article number	Picture	Technical data	Link
<p>SCALANCE XC216-4C (Usage of a C-Plug for storing the configuration is mandatory)</p>	<p>6GK5216-4BS00-2AC2</p>		<p>SCALANCE XC216-4C managed Layer 2 IE switch; IEC 62443-4-2 certified; 12x 10/100 Mbps RJ45 ports; 4x 1000 Mbps combo ports (either 1000 Mbps/ SFPs or 10/100/1000 Mbps RJ45 ports can be used); 1x console port; diagnostics LED; redundant power supply; temp. range -40 °C to +70 °C; mounting: DIN rail/S7 mounting rail/wall; redundancy functions; Office features (RSTP, VLAN,...); PROFINET IO device; Ethernet/IP-compliant; C-plug slot;</p>	<p><a href="#">Industry Mall</a></p>
<p>SCALANCE XC216-4C G (Usage of a C-Plug for storing the configuration is mandatory, usage is only allowed after clarifying with the responsible electrical planning department)</p>	<p>6GK5216-4GS00-2AC2</p>		<p>SCALANCE XC216-4C G manageable Layer 2 IE switch; IEC 62443-4-2 certified; Full gigabit; 12x 10/100/1000 Mbit/s RJ45 ports; 4x 1000 Mbit/s combo ports (either 1000 Mbit/s/ SFPs or 10/100/1000 Mbit/s RJ45 ports can be used); 1x console port; diagnostics LED; redundant power supply; temperature range -40 °C to +70 °C; assembly: DIN rail/S7 mounting rail/wall; redundancy functions; office features (RSTP, VLAN,...); PROFINET IO device; Ethernet/IP-compliant; C-PLUG slot;</p>	<p><a href="#">Industry Mall</a></p>





Article description	Article number	Picture	Technical data	Link
<p>SCALANCE XC224 (Usage is only allowed after clarifying with the responsible electrical planning department, usage of a C-Plug for storing the configuration is mandatory)</p>	<p>6GK5224-0BA00-2AC2</p>		<p>SCALANCE XC224 managed Layer 2 IE switch; IEC 62443-4-2 certified; 24x 10/100 Mbps RJ45 ports 1x console port, diagnostics LED; redundant power supply; temp. range -40 °C to +70 °C; mounting: DIN rail/S7 mounting rail/wall Office redundancy functions features (RSTP, VLAN,...); PROFINET IO device Ethernet/IP-compliant, C-plug slot;</p>	<p><a href="#">Industry Mall</a></p>
<p>SCALANCE XP208 (Usage is only allowed after clarifying with the responsible electrical planning department, usage of a C-Plug for storing the configuration is mandatory)</p>	<p>6GK5208-0HA00-2AS6</p>		<p>SCALANCE XP208, managed IE switch, 8x 10/100 Mbps M12 ports, IP65, LED diagnostics, error signaling contact, Redundant power supply, PROFINET IO device, network management, operable in redundant ring, Dust caps, incl. electronic Manual on CD-ROM, C-plug optional</p>	<p><a href="#">Industry Mall</a></p>








### 3.2.5.2. SCALANCE X – Managed Switches (PoE)

Article description	Article number	Picture	Technical data	Link
<p>SCALANCE XC206-2G PoE (Usage of a C-Plug for storing the configuration is mandatory, usage is only allowed after clarifying with the responsible electrical planning department)</p>	<p>6GK5206-2RS00-2AC2</p>		<p>SCALANCE XC206-2G PoE Manageable Layer 2 IE PoE Switch; IEC 62443-4-2 certified; 6x 10/100/1000 Mbps RJ45 PoE ports acc. to IEEE802.3at ; 2 ports of which according to IEEE802.3bt; 2x 1,000, 10,000 Mbps SFP+; PoE support for 24 V DC Infeed; 120 W PoE power can be distributed among all PoE ports; 1x console port; diagnostics LED, Redundant power supply; temp. range -40 °C to +60 °C; mounting on DIN rail/S7 mounting rail /wall; Redundancy functions; Office features (RSTP, VLAN,.. .); PROFINET device; Ethernet/IP-compliant; C-PLUG shaft;</p>	<p><a href="#">Industry Mall</a></p>
<p>SCALANCE XC208G PoE (Usage of a C-Plug for storing the configuration is mandatory, usage is only allowed after clarifying with the responsible electrical planning department)</p>	<p>6GK5208-0RA00-2AC2</p>		<p>SCALANCE XC208G PoE Manageable Layer 2 IE PoE Switch; IEC 62443-4-2 certified; 6x 10/100/1000 Mbps RJ45 PoE ports acc. to IEEE802.3at ; 2 ports of which according to IEEE802.3bt; 2x 10/100/1000 Mbps RJ45; PoE support for 24 V DC Infeed; 120 W PoE power can be distributed among all PoE ports; 1x console port; diagnostics LED, Redundant power supply; temp. range -40 °C to +60 °C; mounting on DIN rail/S7 mounting rail /wall; Redundancy functions; Office features (RSTP, VLAN,.. .); PROFINET device; Ethernet/IP-compliant; C-PLUG shaft;</p>	<p><a href="#">Industry Mall</a></p>




Article description	Article number	Picture	Technical data	Link
<p>SCALANCE XC216-3G PoE (Usage of a C-Plug for storing the configuration is mandatory, usage is only allowed after clarifying with the responsible electrical planning department)</p>	6GK5216-3RS00-2AC2		<p>SCALANCE XC216-3G PoE manageb. Layer 2 IE PoE Switch; 14x 10, 100/1000 Mbit/s; RJ45 PoE Ports according to IEEE802.3at; 2 ports thereof according to IEEE802.3bt; IEC 62443-4-2 certified 2x 10/100/1,000 Mbps RJ45; 2x 1,000, 10,000 Mbps SFP+; 1x 1,000 Mbps SFP; PoE support for 24 V DC infeed; 120 W PoE power can be distributed among all PoE ports; 1x console port; diagnostics LED; redundant power supply; temperature range -40 °C to +60 °C; mounting on DIN rail/S7 mounting rail /wall; redundancy functions; Office features (RSTP, VLAN, ...); PROFINET device; Ethernet /IP-complia(*)</p>	<p><a href="#">Industry Mall</a></p>
<p>SCALANCE XP208PoE EEC (Usage is only allowed after clarifying with the responsible electrical planning department, usage of a C-Plug for storing the configuration is mandatory)</p>	6GK5208-0UA00-5ES6		<p>SCALANCE XP208PoE EEC, managed IE switch, 8x 10/100 Mbps M12 ports, IP65, LED diagnostics, error signaling contact, Redundant power supply, PROFINET IO device, network management, operable in redundant ring, Dust caps, incl. electronic Manual on CD-ROM, C-plug optional</p>	<p><a href="#">Industry Mall</a></p>
<p>SCALANCE PS924 PoE Power-Supply</p>	6GK5924-0PS00-1AA2		<p>SCALANCE PS924 PoE power supply for Power-over-Ethernet, Input: 24 V DC output: 54 V DC/1.6 A NEC Class 2</p>	<p><a href="#">Industry Mall</a></p>


### 3.2.5.3. SCALANCE X – Unmanaged Switches

**Note:**


Managed switches should preferably be used. Unmanaged switches may only be used in exceptional cases after clarifying with the responsible electrical planning department

Article description	Article number	Picture	Technical data	Link
SCALANCE XB008 (Usage only allowed in HMI network together with a SINUMERIK after clarifying with the responsible electrical planning department)	6GK5008-0BA10-1AB2		SCALANCE XB008 Unmanaged Industrial Ethernet Switch for 10/100 Mbit/s for setting up small star and line topologies; LED diagnostics, IP20, 24 V AC/DC power supply, with 8x 10/100 Mbit/s twisted pair ports with RJ45 sockets; Manual available as a download	<a href="#">Industry Mall</a>

### 3.2.5.4. SCALANCE S – Security


Article description	Article number	Picture	Technical data	Link
SCALANCE S615 (Usage is only allowed after clarifying with the responsible electrical planning department)	6GK5615-0AA00-2AA2		SCALANCE S615 LAN router; for protection of devices/networks in automation technology and for protection of industrial communication by means of VPN and firewall; Further functions: address conversion (NAT/NAPT), connection to SINEMA RC, 5-port switch, 1x dig. input, 1x digital output	<a href="#">Industry Mall</a>



Article description	Article number	Picture	Technical data	Link
SCALANCE SC622-2C (Usage is only allowed after clarifying with the responsible electrical planning department)	6GK5622-2GS00-2AC2		SCALANCE SC622-2C Industrial Security Appliance; for protection of devices and networks in discrete manufacturing and the process industry for protection of the industrial communication with firewall; further functions: network separation according to PROFI-safe; address conversion (NAT/NAPT); connection to SINEMA RC; 2x combo port electrical or optical; 10/100/1000 Mbit/s RJ45 or 1000 Mbit/s SFP.	<a href="#">Industry Mall</a>
SCALANCE SC626-2C (Usage is only allowed after clarifying with the responsible electrical planning department)	6GK5626-2GS00-2AC2 (expected to be available from Q4/2022)	(in preparation)	SCALANCE SC626-2C Industrial Security Appliance; for protection of devices and networks in discrete manufacturing and process industries for the protection of industrial communication with firewall; Further functions: network separation according to PROFI-safe; address translation (NAT/NAPT); connection to SINEMA RC; 1x hardware separated port; 4x port electrical 10/100/1000 Mbps RJ45 and 2x combo port electrical or optical; 10/100/1000 Mbps RJ-45 or 1000 Mbps SFP	<a href="#">Industry Mall</a>






### 3.2.5.5. SCALANCE Accessories

Article description	Article number	Picture	Technical data	Link
C-Plug Replacable Medium	6GK1900-0AB10		C-plug, removable data storage medium for simple device replacement in case of fault, for recording configuration or configuration and application data, can be used in the following SIMATIC NET products with C-plug slot: SCALANCE XC-200, XP-200, XM-400, XR-500, M-800 S615 and W-700	<a href="#">Industry Mall</a>

### 3.2.6. Software

#### 3.2.6.1. Operator Panel Runtime Software for SINUMERIK ONE

The HMI software versions for the SINUMERIK HMI system are defined using the VW startup sets.

Article description	Article number	Picture	Technical data	Link
SINUMERIK ONE OPC UA Server	6FC5800-0BP67-0YB0		SINUMERIK ONE OPC UA software option delivery of an electronic license (PDF) ***** ***** email address for delivery is absolutely essential	<a href="#">Industry Mall</a>
SINUMERIK ONE OPC UA Server - PLC	6FC5800-0BP82-0YB0		SINUMERIK ONE Access MyMachine /OPC UA - PLC software option, delivery of an electronic license (PDF) ***** ***** email address for delivery is absolutely essential	<a href="#">Industry Mall</a>
SINUMERIK ONE Access MyMachine /P2P	6FC5800-0AP30-0YH0		SINUMERIK 828D 840D sI SINUMERIK Integrate Access MyMachine /P2P software option delivery of an electr. license ***** ***** email address for delivery is absolutely essential	<a href="#">Industry Mall</a>



### 3.2.6.2. Operator Panel Runtime Software for SINUMERIK 840D sl

The HMI software versions for the SINUMERIK HMI system are defined using the VW startup sets.



Article description	Article number	Picture	Technical data	Link
SINUMERIK 840D sl OPC UA Server	6FC5800-0AP67-0YH0		SINUMERIK 828D/840D sl OPC UA software option delivery of an electronic license (PDF) ***** ***** email address for delivery is absolutely essential	<a href="#">Industry Mall</a>
SINUMERIK 840D sl Access MyMachine /P2P	6FC5800-0AP30-0YH0		SINUMERIK 828D 840D sl SINUMERIK Integrate Access MyMachine /P2P software option delivery of an electr. license ***** ***** email address for delivery is absolutely essential	<a href="#">Industry Mall</a>

### 3.2.6.3. Operator Panel Runtime Software for SIMATIC HMI Panels

Article description	Article number	Picture	Technical data	Link
TRANSLINE HMI Lite Copy License	6FC5263-0PY11-0AG1		Solutions for Powertrain HMI LITE Delivery of a license	<a href="#">Industry Mall</a>
SIMATIC ProDiag for Comfort/ Mobile Panels	6AV2107-0UP00-0BH0		SIMATIC ProDiag for SIMATIC Comfort/Mobile Panels, Controls for WinCC V14 or higher; Runtime software in TIA Portal; Single License; license key for download; without software and documentation; class A; ***** ***** Email address required for delivery	<a href="#">Industry Mall</a>



### 3.2.6.4. SIMATIC S7-1500 Runtime Software

Article description	Article number	Picture	Technical data	Link
S7-1500 ProDiag Runtime License for 250 Monitorings	6ES7823-0AE00-1AA0		SIMATIC ProDiag S7-1500, Single Runtime License download contains license certificate for 250 monitoring functions, as pdf for download, class A; executable on all S7-1500 Firmware V2.0 or higher ***** ***** Email address required for delivery	<a href="#">Industry Mall</a>
S7-1500 OPC UA Runtime License Small	6ES7823-0BE00-1BA0		SIMATIC OPC UA S7-1500 Small, Single Runtime License download contains license certificate for OPC UA server and OPC UA client class A, executable on all ET 200SP CPUs, S7-1500 up to CPU-1513, CPU 1505SP, CPU 1504D, including F and T derivatives Firmware V2.0 or higher ***** ***** Email address required for delivery	<a href="#">Industry Mall</a>



Article description	Article number	Picture	Technical data	Link
S7-1500 OPC UA Runtime License Medium	6ES7823-0BE00-1CA0		SIMATIC OPC UA S7-1500 Medium, Single Runtime License download contains license certificate for OPC UA server and OPC UA client class A, executable on all ET 200SP CPUs, S7-1500 up to CPU-1516, CPU 1507S, including F and T derivatives from Firmware V2.0, OPC UA Server Method Call, Custom Address Space Firmware V2.5 or higher ***** ***** Email address required for delivery	<a href="#">Industry Mall</a>
S7-1500 OPC UA Runtime License Large	6ES7823-0BE00-1DA0		SIMATIC OPC UA S7-1500 Large, Single Runtime License download contains license certificate for OPC UA server and OPC UA client class A, executable on all ET 200SP CPUs, all S7-1500 CPUs, CPU 1508S, CPU 1507D, including F and T derivatives from Firmware V2.0, OPC UA Server Method Call, Custom Address Space Firmware V2.5 or higher ***** ***** Email address required for delivery	<a href="#">Industry Mall</a>

### 3.2.6.5. Engineering Software

The detailed software versions of the engineering tools are specified in the project manual.





### 3.2.7. Modular Compact Controller S7-1200

The usage of the S7-1200 is only allowed after clarifying with the responsible electrical planning department, an approval in written form is necessary.

**Important:**

The specified components are not part of the TRANSLINE Standard and are therefore not supported by the corresponding standards like f. e. HMI Lite or HMI PRO. For the engineering of the specified components, the TIA Portal engineering tools are needed.

Article description	Article number	Picture	Technical data	Link
KTP400 Basic (Usage is only allowed after clarifying with the responsible electrical planning department)	6AV2123-2DB03-0AX0		SIMATIC HMI, KTP400 Basic, Basic Panel, Key/touch operation, 4" TFT display, 65536 colors, PROFINET interface, configurable from WinCC Basic V13/STEP 7 Basic V13, contains open-source software, which is provided free of charge see enclosed CD	<a href="#">Industry Mall</a>
S7-1200 CPU 1214FC (Usage is only allowed after clarifying with the responsible electrical planning department)	6ES7214-1AF40-0XB0		SIMATIC S7-1200F, CPU 1214 FC, compact CPU, DC/DC/DC, onboard I/O: 14 DI 24 V DC; 10 DO 24 V DC; 2 AI 0-10 V DC, Power supply: DC 20.4-28.8V DC, Program/data memory 125 KB	<a href="#">Industry Mall</a>