

| RefNr                     | Description        | Features   | Siemens-Article           | Description   | Additional costs Siemens  |
|---------------------------|--------------------|--|---------------------------|---|---|
| <b>314-2AG23</b>          | VIPA CPU 314SB DPM | <p>Powered by SPEED7<br/> Work memory [KB]: 512...1.024<br/> Interface [RJ45]: Ethernet PG/OP communication<br/> Interface [2x RS485]: MPI, PROFIBUS master/slave, PtP: ASCII, STX/ETX, 3964(R), USS master, Modbus master/slave<br/> SD/MMC card slot with locking, up to 32 modules stackable, programmable with WinPLC7, SIMATIC Manager and TIA Portal</p> | <b>6ES7315-2AH14-0AB0</b> | <p>SIMATIC S7-300, CPU 315-2DP Central processing unit with MPI Integr. power supply 24 V DC Work memory 256 KB<br/> 2nd interface DP master/slave Micro Memory Card required</p> | <p>Minimum MMC card 6ES7953-8LF31-0AA0 required. Flash-EPROM 64 kB.</p> |
| <b>314-2BG23</b>          | VIPA CPU 314SE     | <p>Powered by SPEED7<br/> Work memory [KB]: 256...1.024<br/> Interface [RJ45]: Ethernet PG/OP communication<br/> Interface [2x RS485]: MPI, PROFIBUS slave, PtP: ASCII, STX/ETX, 3964(R), USS master, Modbus master/slave<br/> SD/MMC card slot with locking, up to 32 modules stackable, programmable with WinPLC7, SIMATIC Manager and TIA Portal</p>        | <b>6ES7314-1AG14-0AB0</b> | <p>SIMATIC S7-300, CPU 314 Central processing unit with MPI, Integr. power supply 24 V DC, work memory 128 KB, Micro Memory Card required</p>                                     | <p>Minimum MMC card 6ES7953-8LF31-0AA0 required. Flash-EPROM 64 kB.</p> |
| <b>See VIPA CPU above</b> | See VIPA CPU above |  | <b>6ES7312-1AE14-0AB0</b> | <p>SIMATIC S7-300, CPU 312 Central processing unit with MPI, Integr. power supply 24 V DC, Work memory 32 KB, Micro Memory Card required</p>                                      | <p>Minimum MMC card 6ES7953-8LF31-0AA0 required. Flash-EPROM 64 kB.</p> |

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| <b>315-2AG23</b> | VIPA CPU 315SB | <p>Powered by SPEED7<br/> Work memory [KB]: 1.024...4.096<br/> Interface [RJ45]: Ethernet PG/OP communication<br/> Interface [2x RS485]: MPI, PROFIBUS master/slave, PtP: ASCII, STX/ETX, 3964(R), USS master, Modbus master/slave<br/> SD/MMC card slot with locking, up to 32 modules stackable, programmable with WinPLC7, SIMATIC Manager and TIA Portal</p>  | <b>6ES7 317-2AK14-0AB0</b> | <p>SIMATIC S7-300, CPU 317-2 DP, Central processing unit with 1 MB work memory, 1st interface MPI/DP 12 Mbit/s, 2nd interface DP master/slave Micro Memory Card required</p>                            | <p>Minimum MMC card 6ES7953-8LF31-0AA0 required. Flash-EPROM 64 kB.</p> |
| <b>317-2AJ23</b> | VIPA CPU 317SE | <p>Powered by SPEED7<br/> Work memory [KB]: 4.096...8.192<br/> SPEED-Bus<br/> Interface [RJ45]: Ethernet PG/OP communication<br/> Interface [2x RS485]: MPI, PROFIBUS master/slave, PtP: ASCII, STX/ETX, 3964(R), USS master, Modbus master/slave<br/> SD/MMC card slot with locking, up to 32 modules stackable, programmable with WinPLC7, SIMATIC Manager and TIA Portal</p>   | <b>6ES7 317-2AK14-0AB0</b> | <p>SIMATIC S7-300, CPU 317-2 DP, Central processing unit with 1 MB work memory, 1st interface MPI/DP 12 Mbit/s, 2nd interface DP master/slave Micro Memory Card required</p>                            | <p>Minimum MMC card 6ES7953-8LF31-0AA0 required. Flash-EPROM 64 kB.</p> |
| <b>315-4NE23</b> | VIPA CPU 315SN | <p>Powered by SPEED7<br/> Work memory [KB]: 1.024...4.096<br/> Integrated Ethernet CP343-Lean<br/> Interface [RJ45]: Ethernet PG/OP communication<br/> Interface [RJ45]: active Ethernet CP343 &amp; PG/OP-communication<br/> Interface [RS485]: MPI<br/> Interface [RS485]: PROFIBUS master/slave, PtP: ASCII, STX/ETX, 3964(R), USS master, Modbus master/slave<br/> SD/MMC card slot with locking, up to 32 modules stackable, programmable with WinPLC7, SIMATIC Manager and TIA Portal</p> | <b>6ES7 315-2EH14-0AB0</b> | <p>SIMATIC S7-300 CPU 315-2 PN/DP, Central processing unit with 384 KB work memory, 1st interface MPI/DP 12 Mbit/s, 2nd interface Ethernet PROFINET, with 2-port switch, Micro Memory Card required</p> | <p>Minimum MMC card 6ES7953-8LF31-0AA0 required. Flash-EPROM 64 kB.</p> |

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| <p><b>317-4NE23</b></p> | <p>VIPA CPU 317SN</p> | <p>Powered by SPEED7<br/> Work memory [KB]: 4.096...8.192<br/> Integrated Ethernet CP343<br/> SPEED-Bus<br/> Interface [RJ45]: Ethernet PG/OP communication<br/> Interface [RJ45]: active Ethernet CP 343 &amp; PG/OP communication<br/> Interface [RS485]: MPI<br/> Interface [RS485]: PROFIBUS master/slave, PtP: ASCII, STX/ETX, 3964(R), USS master, Modbus master/slave<br/> SD/MMC card slot with locking, up to 32 modules stackable, programmable with WinPLC7, SIMATIC Manager and TIA Portal</p> | <p><b>6ES7 317-2AK14-0AB0</b></p> | <p>SIMATIC S7-300, CPU 317-2 DP, Central processing unit with 1 MB work memory, 1st interface MPI/DP 12 Mbit/s, 2nd interface DP master/slave Micro Memory Card required</p>                            | <p>Minimum MMC card 6ES7953-8LF31-0AA0 required. Flash-EEPROM 64 kB.</p> |
| <p><b>315-4PN23</b></p> | <p>VIPA CPU 315PN</p> | <p>Powered by SPEED7<br/> Work memory [KB]: 1.024...4.096<br/> Integrated PROFINET controller<br/> Interface [RJ45]: PROFINET<br/> Interface [RJ45]: Ethernet PG/OP communication<br/> Interface [RS485]: MPI<br/> Interface [RS485]: PROFIBUS master/slave, PtP: ASCII, STX/ETX, 3964(R), USS master, Modbus master/slave<br/> SD/MMC card slot with locking, up to 32 modules stackable, programmable with WinPLC7, SIMATIC Manager and TIA Portal</p>   | <p><b>6ES7315-2EH14-0AB0</b></p>  | <p>SIMATIC S7-300 CPU 315-2 PN/DP, Central processing unit with 384 KB work memory, 1st interface MPI/DP 12 Mbit/s, 2nd interface Ethernet PROFINET, with 2-port switch, Micro Memory Card required</p> | <p>Minimum MMC card 6ES7953-8LF31-0AA0 required. Flash-EEPROM 64 kB.</p> |

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| <p><b>317-4PN23</b></p>        | <p>VIPA CPU 317PN</p>     | <p>Powered by SPEED7<br/> Work memory [KB]: 8MB<br/> Integrated PROFINET controller<br/> SPEED-Bus<br/> Interface [RJ45]: PROFINET<br/> Interface [RJ45]: Ethernet PG/OP communication<br/> Interface [RS485]: MPI<br/> Interface [RS485]: PROFIBUS master/slave, PtP:<br/> ASCII, STX/ETX, 3964(R), USS master, Modbus<br/> master/slave<br/> SD/MMC card slot with locking, up to 32 modules<br/> stackable, programmable with WinPLC7, SIMATIC<br/> Manager and TIA Portal</p> | <p><b>6ES7 317-2EK14-0AB0</b></p> | <p>SIMATIC S7-300 CPU 317-2 PN/DP,<br/> Central processing unit with 1 MB work<br/> memory, 1st interface MPI/DP 12 Mbit/s,<br/> 2nd interface Ethernet PROFINET, with 2-<br/> port switch, Micro Memory Card<br/> required</p>                              | <p>Minimum MMC card 6ES7953-<br/> 8LF31-0AA0 required. Flash-<br/> EPROM 64 kB.</p> |
| <p>See VIPA CPU<br/> above</p> | <p>See VIPA CPU above</p> | <p>See VIPA CPU above</p>   | <p><b>6ES7318-3EL01-0AB</b></p>   | <p>SIMATIC S7-300 CPU 319-3 PN/DP,<br/> Central processing unit with 2 MB work<br/> memory, 1st interface MPI/DP 12 Mbit/s,<br/> 2nd interface DP master/slave 3rd<br/> interface Ethernet PROFINET, with 2-port<br/> switch, Micro Memory Card required</p> | <p>Minimum MMC card 6ES7953-<br/> 8LF31-0AA0 required. Flash-<br/> EPROM 64 kB.</p> |
| <p><b>312-5BE23</b></p>        | <p>VIPA CPU 312SC</p>     | <p>Powered by SPEED7<br/> Work memory [KB]: 128...1.024<br/> Onboard 16x DI / 8x DO / 2x Counter / 2x PWM<br/> Interface [RJ45]: Ethernet PG/OP communication<br/> Interface [2x RS485]: MPI, PtP: ASCII, STX/ETX,<br/> 3964(R), USS master, Modbus master/slave<br/> Including front connector<br/> SD/MMC card slot with locking, up to 8 modules<br/> stackable, programmable with WinPLC7, SIMATIC<br/> Manager and TIA Portal</p>  | <p><b>6ES7312-5BF04-0AB0</b></p>  | <p>SIMATIC S7-300, CPU 312C Compact CPU<br/> with MPI, 10 DI/6 DQ, 2 high-speed<br/> counters (10 kHz) Integr. power supply<br/> 24 V DC, work memory 64 KB, Front<br/> connector (1x 40-pole) and Micro<br/> Memory Card required</p>                       | <p>Minimum MMC card 6ES7953-<br/> 8LF31-0AA0 required. Flash-<br/> EPROM 64 kB.</p> |

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| <p><b>313-5BF23</b></p>   | <p>VIPA CPU 313SC</p>     | <p>Powered by SPEED7<br/> Work memory [KB]: 256...1.024<br/> Onboard 24x DI / 16x DO / 5x AI [current/voltage] / 2x AO / 1x Pt100 / 3x Counter / 3x PWM<br/> Interface [RJ45]: Ethernet PG/OP communication<br/> Interface [2x RS485]: MPI, PtP: ASCII, STX/ETX, 3964(R), USS master, Modbus master/slave<br/> Including front connector<br/> SD/MMC card slot with locking, up to 8 modules stackable, programmable with WinPLC7, SIMATIC Manager and TIA Portal</p> | <p><b>6ES7313-5BG04-0AB0</b></p> | <p>SIMATIC S7-300, CPU 313C, Compact CPU with MPI, 24 DI/16 DO, 4 AI, 2 AO, 1 Pt100, 3 high-speed counters (30 kHz), Integr. power supply 24 V DC, work memory 128 KB, Front connector (2x 40-pole) and Micro Memory Card required</p>                                   | <p>Minimum MMC card 6ES7953-8LF31-0AA0 required. Flash-EPROM 64 kB.</p> |
| <p>See VIPA CPU above</p> | <p>See VIPA CPU above</p> | <p>See VIPA CPU above</p>   | <p><b>6ES7314-6CH04-0AB0</b></p> | <p>SIMATIC S7-300, CPU 314C-2 DP<br/> Compact CPU with MPI, 24 DI/16 DO, 4 AI, 2 AO, 1 Pt100, 4 high-speed counters (60 kHz), integrated DP interface, Integr. power supply 24 V DC, work memory 192 KB, Front connector (2x 40-pole) and Micro Memory Card required</p> | <p>Minimum MMC card 6ES7953-8LF31-0AA0 required. Flash-EPROM 64 kB.</p> |
| <p><b>313-6CF23</b></p>   | <p>VIPA CPU 313SC DPM</p> | <p>Powered by SPEED7<br/> Work memory [KB]: 256...1.024<br/> Onboard 16x DI / 16x DO / 3x Counter / 3x PWM<br/> Interface [RJ45]: Ethernet PG/OP communication<br/> Interface [2x RS485]: MPI, PROFIBUS master/slave, PtP: ASCII, STX/ETX, 3964 (R), USS master, Modbus master/slave<br/> Including front connector<br/> SD/MMC card slot with locking, up to 32 modules stackable, programmable with WinPLC7, SIMATIC Manager and TIA Portal</p>                     | <p><b>6ES7313-6BG04-0AB0</b></p> | <p>SIMATIC S7-300, CPU 313C-2 PTP<br/> Compact CPU with MPI, 16 DI/16 DO, 3 high-speed counters (30 kHz), integrated interface RS485, Integr. power supply 24 V DC, work memory 128 KB, Front connector (1x 40-pole) and Micro Memory Card required</p>                  | <p>Minimum MMC card 6ES7953-8LF31-0AA0 required. Flash-EPROM 64 kB.</p> |

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| <p><b>314-6CF23</b></p>               | <p>VIPA CPU 314ST</p>            | <p>Powered by SPEED7<br/> Work memory [KB]: 512...2.048<br/> Onboard 8x DI / 8x DIO / 5x AI [current/voltage] /<br/> 2x AO / 1x Pt100 / 4x Counter<br/> SPEED-Bus<br/> Interface [RJ45]: Ethernet PG/OP communication<br/> Interface [2x RS485]: MPI, PROFIBUS<br/> master/slave, PtP: ASCII, STX/ETX, 3964 (R), USS<br/> master, Modbus master/slave<br/> Including front connector<br/> SD/MMC card slot with locking, up to 32 modules<br/> stackable, programmable with WinPLC7, SIMATIC<br/> Manager and TIA Portal</p>          | <p><b>6ES7-317-2AK14-0AB0</b></p> | <p>SIMATIC S7-300, CPU 317-2 DP, Central<br/> processing unit with 1 MB work memory,<br/> 1st interface MPI/DP 12 Mbit/s, 2nd<br/> interface DP master/slave Micro Memory<br/> Card required</p>   | <p>Minimum MMC card 6ES7953-<br/> 8LF31-0AA0 required. Flash-<br/> EPROM 64 kB.</p> |
| <p><b>314-6CG23</b></p>               | <p>VIPA CPU 314SC DPM</p>        | <p>Powered by SPEED7<br/> Work memory [KB]: 512...2.048<br/> Onboard 24x DI / 16x DO / 8x DIO / 5x AI<br/> [current/voltage] / 2x AO / 1x Pt100 / 4x Counter /<br/> 4x PWM<br/> Interface [RJ45]: Ethernet PG/OP communication<br/> Interface [2x RS485]: MPI, PROFIBUS<br/> master/slave, PtP: ASCII, STX/ETX, 3964 (R), USS<br/> master, Modbus master/slave<br/> Including front connector<br/> SD/MMC card slot with locking, up to 32 modules<br/> stackable, programmable with WinPLC7, SIMATIC<br/> Manager and TIA Portal</p> | <p><b>6ES7314-6BH04-0AB0</b></p>  | <p>SIMATIC S7-300, CPU 314C-2 PTP<br/> Compact CPU with MPI, 24 DI/16 DO, 4<br/> AI, 2 AO, 1 Pt100, 4 high-speed counters<br/> (60 kHz), integrated interface RS485,<br/> Integr. power supply 24 V DC, work<br/> memory 192 KB, Front connector (2x 40-<br/> pole) and Micro Memory Card required</p> | <p>Minimum MMC card 6ES7953-<br/> 8LF31-0AA0 required. Flash-<br/> EPROM 64 kB.</p> |
| <p><b>See VIPA CPU<br/> above</b></p> | <p><b>See VIPA CPU above</b></p> | <p><b>See VIPA CPU above</b></p>  | <p><b>6ES7314-6CH04-0AB0</b></p>  | <p>SIMATIC S7-300, CPU 314C-2 DP<br/> Compact CPU with MPI, 24 DI/16 DO, 4<br/> AI, 2 AO, 1 Pt100, 4 high-speed counters<br/> (60 kHz), integrated DP interface, Integr.<br/> power supply 24 V DC, work memory 192<br/> KB, Front connector (2x 40-pole) and<br/> Micro Memory Card required</p>      | <p>Minimum MMC card 6ES7953-<br/> 8LF31-0AA0 required. Flash-<br/> EPROM 64 kB.</p> |

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| <b>307-1EA00</b> | PS 307 - Power supply                    | AC 120...230 V<br>DC 24 V<br>5 A<br>60/50 Hz switchable  | <b>6ES7307-1EA01-0AA0</b>  | SIMATIC S7-300 Regulated power supply<br>PS307 input: 120/230 V AC, output: 24 V/5 A DC                                 |  |
| <b>307-1FB70</b> | PS 307S - Power supply - SPEED-Bus       | DC 24 V<br>5,5 A<br>Only for 317S PLCs   | <b>No SPEED-Bus module</b> |   |  |
| <b>307-1KA00</b> | PS 307 - Power supply                    | AC 120...230 V<br>DC 24 V<br>10 A<br>60/50 Hz switchable   | <b>6ES7307-1KA02-0AA0</b>  | SIMATIC S7-300 Regulated power supply<br>PS307 input: 120/230 V AC, output: 24 V / 10 A DC                              |  |
| <b>321-1BH01</b> | SM 321 - Digital input                   | 16x DI<br>DC 24 V<br>For 20 pole front connector   | <b>6ES7321-1BH02-0AA0</b>  | SIMATIC S7-300, Digital input SM 321, isolated, 16 DI, 24 V DC, 1x 20-pole  |  |
| <b>321-1BH70</b> | SM 321S - FAST Digital input - SPEED-Bus | 16x fast DI<br>SPEED-Bus<br>2,56µs...40ms<br>Parameterizable as Alarm/ETS<br>For 20 pole front connector | <b>No SPEED-Bus module</b> |   |  |
| <b>321-1BL00</b> | SM 321 - Digital input                   | 32x DI, two groups<br>DC 24 V<br>For 40 pole front connector   | <b>6ES7321-1BL00-0AA0</b>  | SIMATIC S7-300, Digital input SM 321, Isolated 32 DI, 24 V DC, 1x 40-pole   |  |
| <b>321-1FH00</b> | SM 321 - Digital input                   | 16x DI, in groups of 4<br>AC 120/230 V<br>For 20 pole front connector                                    | <b>6ES7321-1FH00-0AA0</b>  | SIMATIC S7-300, Digital input SM 321, Isolated 16 DI, 120/230 V AC, 1x 20-pole  |  |
| <b>322-1BF01</b> | SM 322 - Digital output                  | 8x DO, in groups of 4<br>DC 24 V<br>2 A<br>For 20 pole front connector                                   | <b>6ES7322-1BF01-0AA0</b>  | SIMATIC S7-300, Digital output SM 322, isolated, 8 DO, 24 V DC, 2A, 1x 20-pole  |  |
| <b>322-1BH01</b> | SM 322 - Digital output                  | 16x DO, in groups of 8<br>1 A (per group up to 4 A)<br>For 20 pole front connector                       | <b>6ES7322-1BH01-0AA0</b>  | SIMATIC S7-300, Digital output SM 322, isolated, 16 DO, 24 V DC, 0.5A, 1x 20-pole, Total current 4 A/group (8 A/module) |  |

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| <b>322-1BH01-S</b> | SM 322 - Digital output                   | 16x DO, in groups of 8<br>1 A (per group up to 4 A)<br>Safe shutdown according to EN ISO 13849-1 to category 3 PLd<br>For 20 pole front connector       | -  | -  |  |
| <b>322-1BH41</b>   | SM 322 - Digital output                   | 16x DO, in groups of 8<br>DC 24 V<br>2 A<br>For 20 pole front connector   | -  |  |  |
| <b>322-1BH70</b>   | SM 322S - FAST Digital output - SPEED-Bus | 16x fast DO<br>SPEED-Bus<br>DC 24 V<br>0.5 A<br>100 kHz<br>For 20 pole front connector  | <b>No SPEED-Bus module</b>                             |  |  |
| <b>322-1BL00</b>   | SM 322 - Digital output                   | 32x DO, in groups of 8<br>DC 24 V<br>1 A<br>For 40 pole front connector   | <b>6ES7 322-1BL00-0AA0</b>                             | SIMATIC S7-300, Digital output SM 322, isolated, 32 DO, 24 V DC, 0.5A, 1x 40-pole, Total current 4 A/group (16 A/module)                     |  |
| <b>322-1BL00-S</b> | SM 322 - Digital output                   | 32x DO, in groups of 8<br>DC 24 V<br>1 A<br>Safe shutdown according to EN ISO 13849-1 to category 3 PLd<br>For 40 pole front connector                  | <b>6ES7 322-1BL00-0AA0 (above hardware version 10)</b> | SIMATIC S7-300, Digital output SM 322, isolated, 32 DO, 24 V DC, 0.5A, 1x 40-pole, Total current 4 A/group (16 A/module)                     |  |
| <b>322-1HH00</b>   | SM 322 - Digital output                   | 16x DO, in groups of 8<br>Relay<br>DC 24 V<br>AC 230 V<br>Contact rating per channel 5 A<br>For 20 pole front connector                                 | <b>6ES7322-1HH01-0AA0</b>                              | SIMATIC S7-300, Digital output SM 322, Isolated 16 DO, relay contacts, 1x 20-pole  |  |
| <b>322-5FF00</b>   | SM 322 - Digital output                   | 8x DO in groups of 1<br>AC 120/230 V<br>2 A<br>Potential separated per channel<br>Substitute value output (programmable)<br>For 40 pole front connector | <b>6ES7322-5FF00-0AB0</b>                              | SIMATIC S7-300, Digital output SM 322, isolated, 8 DO, 120/230 V AC, 2A, with single rooting/channel and selectable failure mode, 1x 40-pole |  |



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| <b>323-1BH00</b>   | SM 323 - Digital in-/output                   | 16x DIO<br>DC 24 V<br>1 A<br>Diagnostic function<br>For 20 pole front connector  | <b>6ES7323-1BH01-0AA0</b>  | SIMATIC S7-300, Digital module SM 323,<br>isolated, 8DI and 8DO, 24 V DC, 0.5 A<br>Total current 2A, 1x 20-pole  |  |
| <b>323-1BH01</b>   | SM 323 - Digital in-/output                   | 8x DI<br>8x DO<br>DC 24 V<br>1 A<br>For 20 pole front connector  | <b>6ES7323-1BH01-0AA0</b>  | SIMATIC S7-300, Digital module SM 323,<br>isolated, 8DI and 8DO, 24 V DC, 0.5 A<br>Total current 2A, 1x 20-pole  |  |
| <b>323-1BH70</b>   | SM 323S - FAST Digital in-/output - SPEED-Bus | 16x DIO<br>SPEED-Bus<br>DC 24 V<br>0.5 A<br>100 kHz<br>For 20 pole front connector   | <b>No SPEED-Bus module</b> |  |  |
| <b>323-1BL00</b>   | SM 323 - Digital in-/output                   | 16x DI<br>16x DO<br>DC 24 V<br>1 A<br>For 40 pole front connector  | <b>6ES7323-1BL00-0AA0</b>  | SIMATIC S7-300, Digital module SM 323,<br>isolated, 16 DI and 16 DO, 24 V DC, 0.5 A,<br>Total current 4A, 1x 40-pole   |  |
| <b>323-1BL00-S</b> | SM 323 - Digital in-/output                   | 16x DI<br>16x DO<br>DC 24 V<br>1 A<br>Safe shutdown according to EN ISO 13849-1 to<br>category 3 PLd<br>For 40 pole front connector  | -                          |  |  |
| <b>331-1KF01</b>   | SM 331 - Analog input                         | 8x AI<br>13 Bit<br>Voltage +/- 10 V, +/- 50 mV, +/- 500 mV, +/- 5 V, 0<br>V ... +10 V<br>Current +/- 20 mA, 0/4...20 mA<br>Resistance thermometer, thermocouple<br>For 40 pole front connector | <b>6ES7331-1KF02-0AB0</b>  | SIMATIC S7-300, Analog input SM 331,<br>Isolated 8 AI, resolution 13 bits<br>U/I/resistor/Pt100, NI100, NI1000, LG-<br>NI1000, PTC/KTY, 66 ms conversion time;<br>1x 40-pole |  |

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| 331-7KF01 | SM 331 - Analog input                   | 8x AI, in 4 groups<br>12 Bit<br>Voltage +/- 10 V, +/- 5 V, 1...5 V, +/- 80 mV, +/- 250 mV, +/- 500 mV<br>Current +/- 20 mA, +/- 10 mA, 0/4...20 mA, +/- 3.2 mA<br>Resistance thermometer, thermocouple<br>For 20 pole front connector                        | 6ES7331-7KF02-0AB0  | SIMATIC S7-300, Analog input SM 331, isolated, 8 AI, Resolution 9/12/14 bits, U/I/thermocouple/resistor, alarm, diagnostics, 1x 20-pole<br>Removing/inserting with active backplane bus  |  |
| 331-7KB01 | SM 331 - Analog input                   | 2x AI, in 1 group<br>12 Bit<br>Voltage +/- 10 V, 1...5 V, 0...10 V<br>Current +/- 20 mA, 0/4...20 mA<br>Resistance thermometer, thermocouple<br>For 20 pole front connectors   | 6ES7331-7KB02-0AB0  | SIMATIC S7-300, Analog input SM 331, isolated, 2 AI, Resolution 9/12/14 bits, U/I/thermocouple/resistor, alarm, diagnostics, 1x 20-pole,<br>Removing/inserting with active backplane bus |  |
| 331-7AF70 | SM 331S - Analog input FAST - SPEED-Bus | 8x fast AI<br>16 Bit<br>Current +/- 20 mA<br>Potential isolation between the channels<br>25µs...1000µs sampling rate (parameterizable)<br>Memory: 8192 value/channel<br>Oscilloscope-/FIFO-Function<br>Alarm parameterizable<br>For 20 pole front connectors | No SPEED-Bus module |  |  |
| 331-7BF70 | SM 331S - Analog input FAST - SPEED-Bus | 8x fast AI<br>16 Bit<br>Voltage +/- 10 V<br>Potential isolation between the channels<br>25µs...1000µs sampling rate (parameterizable)<br>Memory: 8192 value/channel<br>Oscilloscope-/FIFO-Function<br>Alarm parameterizable<br>For 20 pole front connectors  | No SPEED-Bus module |  |  |

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| <b>332-5HB01</b> | SM 332 - Analog output     | 2x AO<br>12 Bit<br>Voltage +/- 10 V, 1...5 V, 0...10 V<br>Current +/- 20 mA, 0/4...20 mA<br>Parameterizable        | <b>6ES7332-5HB01-0AB0</b> | SIMATIC S7-300, Analog output SM 332, isolated, 2 AO, U/I; resolution 11/12 bits, 20-pole, Removing/inserting with active backplane bus possible                  |
| <b>332-5HD01</b> | SM 332 - Analog output     | 4x AO<br>12 Bit<br>Voltage +/- 10 V, 1...5 V, 0...10 V<br>Current +/- 20 mA, 0/4...20 mA<br>Parameterizable        | <b>6ES7332-5HD01-0AB0</b> | SIMATIC S7-300, Analog output SM 332, isolated, 4 AO, U/I; diagnostics; resolution 11/12 bits, 20-pole, removing and inserting possible with active backplane bus |
| <b>334-0KE00</b> | SM 334 - Analog in-/output | 4x AI<br>2x AO<br>12 Bit<br>Input: RTD / output voltage 0...10 V<br>Parameterizable<br>For 20 pole front connector | <b>6ES7334-0KE00-0AB0</b> | SIMATIC S7-300, Analog module SM 334, isolated, 4 AI/2 AO, 12 bit, 0-10 V f. Pt100 (climatic range -120-155 degrees) and 10 kOhm measuring range, 1x 20-pole      |
| <b>392-1AJ00</b> | Front connector            | 20 pole with screw contact   | <b>6ES7392-1AJ00-0AA0</b> | SIMATIC S7-300, Front connector for signal modules with screw contacts, 20-pole   |
| <b>392-1AM00</b> | Front connector            | 40 pole with screw contact   | <b>6ES7392-1AM00-0AA0</b> | SIMATIC S7-300, Front connector with screw contacts, 40-pole  |