Data sheet

Spare part SIMATIC S7-200, CPU 224XP Compact unit, DC power supply 14 DI DC/10 DO DC, 2 AI, 1 AO, 12/16 KB progr./10 KB data, 2 PPI/user-programmable interface



Figure similar

| Supply voltage | |
|---|---|
| Rated value (DC) | |
| • 24 V DC | Yes |
| Load voltage L+ | |
| Rated value (DC) | 24 V |
| permissible range, lower limit (DC) | 20.4 V |
| permissible range, upper limit (DC) | 28.8 V |
| Input current | |
| Inrush current, max. | 12 A; at 28.8 V |
| from supply voltage L+, max. | 900 mA; 120 mA to 900 mA, output current for expansion modules (5 V DC) 660 mA $$ |
| Encoder supply | |
| 24 V encoder supply | |
| • 24 V | Yes; permissible range: 15.4 to 28.8 V |
| Short-circuit protection | Yes; electronic at 280 mA |
| Output current, max. | 280 mA |
| Power loss | |
| Power loss, typ. | 8 W |
| Memory | |
| Number of memory modules (optional) | 1; pluggable memory module, content identical with integral EEPROM; can additionally store recipes, data logs and other files |
| Work memory | |
| integrated (for program) | 16 kbyte; 12 KB with active run-time edit |
| integrated (for data) | 10 kbyte |
| Backup | |
| • present | Yes; Program: Entire program maintenance-free on integral EEPROM, programmable via CPU; data: Entire DB 1 loaded from PG/PC maintenance-free on integral EEPROM, current values of DB 1 in RAM, retentive memory bits, timers, counters, etc. maintenance-free via high-performance capacitor; optional battery for long-term buffering |
| Battery | |
| Backup battery | |
| Backup time, max. | 100 h; (min. 70 h at 40 °C); 200 days (typ.) with optional battery module |
| CPU processing times | |
| for bit operations, max. | 0.22 µs |
| Counters, timers and their retentivity | |
| S7 counter | |
| Number | 256 |
| Retentivity | |

| — adjustable | Yes; via high-performance capacitor or battery |
|--|---|
| — lower limit | 1 |
| — upper limit | 256 |
| Counting range | 0 |
| — lower limit — upper limit | 0 32 767 |
| — upper limit | 32 101 |
| Number | 256 |
| Retentivity | 200 |
| — adjustable | Yes; via high-performance capacitor or battery |
| — upper limit | 64 |
| Time range | |
| — lower limit | 1 ms |
| — upper limit | 54 min; 4 timers: 1 ms to 30 s; 16 timers: 10 ms to 5 min; 236 timers: 100 ms to 54 min |
| Data areas and their retentivity | |
| Flag | |
| • Size, max. | 32 byte |
| Retentivity available | Yes; M 0.0 to M 31.7 |
| of which retentive with battery | 0 to 255, via high-performance capacitor or battery, adjustable |
| of which retentive without battery | 0 to 112 in EEPROM, adjustable |
| Hardware configuration | |
| Number of expansion units, max. | 7; Only expansion modules of the S7-22x series can be used. Due to the limited output current, the use of expansion modules may be limited. |
| connectable programming devices/PCs | SIMATIC PG/PC, standard PC |
| Expansion modules | |
| Analog inputs/outputs, max. | 38; 2 onboard inputs and 1 output, also max. 28 inputs and 7 outputs (EM) or max. 0 inputs and 14 outputs (EM) |
| Digital inputs/outputs, max. | 168; max. 94 inputs and 74 outputs (CPU + EM) |
| AS-Interface inputs/outputs, max. | 62; AS-Interface A/B slaves (CP 243-2) |
| Digital inputs | |
| Digital inputs | |
| Number of digital inputs | 14 |
| Number of digital inputs Source/sink input | 14 Yes; optionally, per group |
| Number of digital inputs Source/sink input Input voltage | Yes; optionally, per group |
| Number of digital inputs Source/sink input Input voltage • Rated value (DC) | Yes; optionally, per group 24 V |
| Number of digital inputs Source/sink input Input voltage • Rated value (DC) • for signal "0" | Yes; optionally, per group 24 V 0V to 5V; 0V to 1V (I0.3 to I0.5) |
| Number of digital inputs Source/sink input Input voltage • Rated value (DC) • for signal "0" • for signal "1" | Yes; optionally, per group 24 V |
| Number of digital inputs Source/sink input Input voltage • Rated value (DC) • for signal "0" • for signal "1" Input current | Yes; optionally, per group 24 V 0V to 5V; 0V to 1V (I0.3 to I0.5) min. 15 V; min. 4 V (I 0.3 to I 0.5) |
| Number of digital inputs Source/sink input Input voltage • Rated value (DC) • for signal "0" • for signal "1" Input current • for signal "1", typ. | Yes; optionally, per group 24 V 0V to 5V; 0V to 1V (I0.3 to I0.5) |
| Number of digital inputs Source/sink input Input voltage Rated value (DC) for signal "0" for signal "1" Input current for signal "1", typ. Input delay (for rated value of input voltage) | Yes; optionally, per group 24 V 0V to 5V; 0V to 1V (I0.3 to I0.5) min. 15 V; min. 4 V (I 0.3 to I 0.5) |
| Number of digital inputs Source/sink input Input voltage Rated value (DC) for signal "0" for signal "1" Input current for signal "1", typ. Input delay (for rated value of input voltage) for standard inputs | Yes; optionally, per group 24 V 0V to 5V; 0V to 1V (I0.3 to I0.5) min. 15 V; min. 4 V (I 0.3 to I 0.5) 2.5 mA; 8 mA for I0.3 to I0.5 |
| Number of digital inputs Source/sink input Input voltage Rated value (DC) for signal "0" for signal "1" Input current for signal "1", typ. Input delay (for rated value of input voltage) for standard inputs parameterizable | Yes; optionally, per group 24 V 0V to 5V; 0V to 1V (I0.3 to I0.5) min. 15 V; min. 4 V (I 0.3 to I 0.5) 2.5 mA; 8 mA for I0.3 to I0.5 Yes; all |
| Number of digital inputs Source/sink input Input voltage Rated value (DC) for signal "0" for signal "1" Input current for signal "1", typ. Input delay (for rated value of input voltage) for standard inputs parameterizable at "0" to "1", min. | Yes; optionally, per group 24 V 0V to 5V; 0V to 1V (I0.3 to I0.5) min. 15 V; min. 4 V (I 0.3 to I 0.5) 2.5 mA; 8 mA for I0.3 to I0.5 Yes; all 0.2 ms |
| Number of digital inputs Source/sink input Input voltage Rated value (DC) for signal "0" for signal "1" Input current for signal "1", typ. Input delay (for rated value of input voltage) for standard inputs — parameterizable — at "0" to "1", min. — at "0" to "1", max. | Yes; optionally, per group 24 V 0V to 5V; 0V to 1V (I0.3 to I0.5) min. 15 V; min. 4 V (I 0.3 to I 0.5) 2.5 mA; 8 mA for I0.3 to I0.5 Yes; all |
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| Number of digital inputs Source/sink input Input voltage Rated value (DC) for signal "0" for signal "1" Input current for signal "1", typ. Input delay (for rated value of input voltage) for standard inputs parameterizable at "0" to "1", min. at "0" to "1", max. for interrupt inputs parameterizable parameterizable parameterizable | Yes; optionally, per group 24 V 0V to 5V; 0V to 1V (I0.3 to I0.5) min. 15 V; min. 4 V (I 0.3 to I 0.5) 2.5 mA; 8 mA for I0.3 to I0.5 Yes; all 0.2 ms |
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| Number of digital inputs Source/sink input Input voltage Rated value (DC) for signal "0" for signal "1" Input current for signal "1", typ. Input delay (for rated value of input voltage) for standard inputs parameterizable at "0" to "1", min. at "0" to "1", max. for interrupt inputs parameterizable for technological functions | Yes; optionally, per group 24 V 0V to 5V; 0V to 1V (I0.3 to I0.5) min. 15 V; min. 4 V (I 0.3 to I 0.5) 2.5 mA; 8 mA for I0.3 to I0.5 Yes; all 0.2 ms 12.8 ms |
| Number of digital inputs Source/sink input Input voltage Rated value (DC) for signal "0" for signal "1" Input current for signal "1", typ. Input delay (for rated value of input voltage) for standard inputs — parameterizable — at "0" to "1", min. — at "0" to "1", max. for interrupt inputs — parameterizable for technological functions — parameterizable | Yes; optionally, per group 24 V 0V to 5V; 0V to 1V (I0.3 to I0.5) min. 15 V; min. 4 V (I 0.3 to I 0.5) 2.5 mA; 8 mA for I0.3 to I0.5 Yes; all 0.2 ms 12.8 ms Yes; I 0.0 to I 0.3 |
| Number of digital inputs Source/sink input Input voltage Rated value (DC) for signal "0" for signal "1" Input current for signal "1", typ. Input delay (for rated value of input voltage) for standard inputs parameterizable at "0" to "1", min. at "0" to "1", max. for interrupt inputs parameterizable for technological functions parameterizable Cable length | Yes; optionally, per group 24 V 0V to 5V; 0V to 1V (I0.3 to I0.5) min. 15 V; min. 4 V (I 0.3 to I 0.5) 2.5 mA; 8 mA for I0.3 to I0.5 Yes; all 0.2 ms 12.8 ms Yes; I 0.0 to I 0.3 Yes; (E 0.0 to E 1.5) up to 200 kHz |
| Number of digital inputs Source/sink input Input voltage Rated value (DC) for signal "0" for signal "1" Input current for signal "1", typ. Input delay (for rated value of input voltage) for standard inputs parameterizable at "0" to "1", min. at "0" to "1", max. for interrupt inputs parameterizable for technological functions parameterizable Cable length shielded, max. | Yes; optionally, per group 24 V 0V to 5V; 0V to 1V (I0.3 to I0.5) min. 15 V; min. 4 V (I 0.3 to I 0.5) 2.5 mA; 8 mA for I0.3 to I0.5 Yes; all 0.2 ms 12.8 ms Yes; I 0.0 to I 0.3 Yes; (E 0.0 to E 1.5) up to 200 kHz 500 m; Standard input: 500 m, high-speed counters: 50 m |
| Number of digital inputs Source/sink input Input voltage Rated value (DC) for signal "0" for signal "1" Input current for signal "1", typ. Input delay (for rated value of input voltage) for standard inputs parameterizable at "0" to "1", min. at "0" to "1", max. for interrupt inputs parameterizable for technological functions parameterizable Cable length shielded, max. unshielded, max. | Yes; optionally, per group 24 V 0V to 5V; 0V to 1V (I0.3 to I0.5) min. 15 V; min. 4 V (I 0.3 to I 0.5) 2.5 mA; 8 mA for I0.3 to I0.5 Yes; all 0.2 ms 12.8 ms Yes; I 0.0 to I 0.3 Yes; (E 0.0 to E 1.5) up to 200 kHz 500 m; Standard input: 500 m, high-speed counters: 50 m |
| Number of digital inputs Source/sink input Input voltage Rated value (DC) for signal "0" for signal "1" Input current for signal "1", typ. Input delay (for rated value of input voltage) for standard inputs parameterizable at "0" to "1", min. at "0" to "1", max. for interrupt inputs parameterizable for technological functions parameterizable Cable length shielded, max. unshielded, max. Digital outputs | Yes; optionally, per group 24 V 0V to 5V; 0V to 1V (I0.3 to I0.5) min. 15 V; min. 4 V (I 0.3 to I 0.5) 2.5 mA; 8 mA for I0.3 to I0.5 Yes; all 0.2 ms 12.8 ms Yes; I 0.0 to I 0.3 Yes; (E 0.0 to E 1.5) up to 200 kHz 500 m; Standard input: 500 m, high-speed counters: 50 m 300 m; not for high-speed signals |
| Number of digital inputs Source/sink input Input voltage Rated value (DC) for signal "0" for signal "1" Input current for signal "1", typ. Input delay (for rated value of input voltage) for standard inputs parameterizable at "0" to "1", min. at "0" to "1", max. for interrupt inputs parameterizable for technological functions parameterizable Cable length shielded, max. unshielded, max. Digital outputs Number of digital outputs | Yes; optionally, per group 24 V 0V to 5V; 0V to 1V (I0.3 to I0.5) min. 15 V; min. 4 V (I 0.3 to I 0.5) 2.5 mA; 8 mA for I0.3 to I0.5 Yes; all 0.2 ms 12.8 ms Yes; (E 0.0 to E 1.5) up to 200 kHz 500 m; Standard input: 500 m, high-speed counters: 50 m 300 m; not for high-speed signals |
| Number of digital inputs Source/sink input Input voltage Rated value (DC) for signal "0" for signal "1" Input current for signal "1", typ. Input delay (for rated value of input voltage) for standard inputs parameterizable at "0" to "1", min. at "0" to "1", max. for interrupt inputs parameterizable for technological functions parameterizable Cable length shielded, max. unshielded, max. Unigital outputs Number of digital outputs Short-circuit protection | Yes; optionally, per group 24 V 0V to 5V; 0V to 1V (I0.3 to I0.5) min. 15 V; min. 4 V (I 0.3 to I 0.5) 2.5 mA; 8 mA for I0.3 to I0.5 Yes; all 0.2 ms 12.8 ms Yes; I 0.0 to I 0.3 Yes; (E 0.0 to E 1.5) up to 200 kHz 500 m; Standard input: 500 m, high-speed counters: 50 m 300 m; not for high-speed signals 10; Transistor No; to be provided externally |
| Number of digital inputs Source/sink input Input voltage Rated value (DC) for signal "0" for signal "1" Input current for signal "1", typ. Input delay (for rated value of input voltage) for standard inputs parameterizable at "0" to "1", min. at "0" to "1", max. for interrupt inputs parameterizable for technological functions parameterizable Cable length shielded, max. unshielded, max. ligital outputs Number of digital outputs Short-circuit protection Limitation of inductive shutdown voltage to | Yes; optionally, per group 24 V 0V to 5V; 0V to 1V (I0.3 to I0.5) min. 15 V; min. 4 V (I 0.3 to I 0.5) 2.5 mA; 8 mA for I0.3 to I0.5 Yes; all 0.2 ms 12.8 ms Yes; I 0.0 to I 0.3 Yes; (E 0.0 to E 1.5) up to 200 kHz 500 m; Standard input: 500 m, high-speed counters: 50 m 300 m; not for high-speed signals 10; Transistor No; to be provided externally |
| Number of digital inputs Source/sink input Input voltage Rated value (DC) for signal "0" for signal "1" Input current for signal "1", typ. Input delay (for rated value of input voltage) for standard inputs parameterizable at "0" to "1", min. at "0" to "1", max. for interrupt inputs parameterizable for technological functions parameterizable Cable length shielded, max. unshielded, max. pigital outputs Number of digital outputs Short-circuit protection Limitation of inductive shutdown voltage to Switching capacity of the outputs | Yes; optionally, per group 24 V 0V to 5V; 0V to 1V (I0.3 to I0.5) min. 15 V; min. 4 V (I 0.3 to I 0.5) 2.5 mA; 8 mA for I0.3 to I0.5 Yes; all 0.2 ms 12.8 ms Yes; I 0.0 to I 0.3 Yes; (E 0.0 to E 1.5) up to 200 kHz 500 m; Standard input: 500 m, high-speed counters: 50 m 300 m; not for high-speed signals 10; Transistor No; to be provided externally 1 W |
| Number of digital inputs Source/sink input Input voltage Rated value (DC) for signal "0" for signal "1" Input current for signal "1", typ. Input delay (for rated value of input voltage) for standard inputs parameterizable at "0" to "1", min. at "0" to "1", max. for interrupt inputs parameterizable for technological functions parameterizable Cable length shielded, max. unshielded, max. Unshielded, max. Number of digital outputs Short-circuit protection Limitation of inductive shutdown voltage to Switching capacity of the outputs with resistive load, max. | Yes; optionally, per group 24 V 0V to 5V; 0V to 1V (I0.3 to I0.5) min. 15 V; min. 4 V (I 0.3 to I 0.5) 2.5 mA; 8 mA for I0.3 to I0.5 Yes; all 0.2 ms 12.8 ms Yes; I 0.0 to I 0.3 Yes; (E 0.0 to E 1.5) up to 200 kHz 500 m; Standard input: 500 m, high-speed counters: 50 m 300 m; not for high-speed signals 10; Transistor No; to be provided externally 1 W 0.75 A |



| Output current | 7504 |
|---|---|
| for signal "1" rated value | 750 mA |
| for signal "0" residual current, max. | 10 μΑ |
| Output delay with resistive load | 15 up of the standard outputs may (0.0.2 to 0.1.1) 15 up of the pulse |
| • "0" to "1", max. | 15 μ s; of the standard outputs, max. (Q 0.2 to Q 1.1) 15 μ s; of the pulse outputs, max. (Q 0.0 to Q 0.1) 0.5 μ s |
| • "1" to "0", max. | 130 μs ; of the standard outputs, max. (Q 0.2 to Q 1.1) 130 μs ; of the pulse outputs, max. (Q 0.0 to Q 0.1) 1.5 μs |
| Parallel switching of two outputs | |
| for uprating | Yes |
| Switching frequency | |
| of the pulse outputs, with resistive load, max. | 100 kHz; Q0.0 to Q0.1 |
| Total current of the outputs (per group) | |
| all mounting positions | |
| — up to 40 °C, max. | 3.75 A |
| horizontal installation | |
| — up to 55 °C, max. | 3.75 A |
| Relay outputs | |
| Number of relay outputs | 0 |
| Cable length | |
| • shielded, max. | 500 m |
| • unshielded, max. | 150 m |
| Analog inputs | |
| Number of analog potentiometers | 2; Analog potentiometer; resolution 8 bit |
| Encoder | |
| Connectable encoders | |
| • 2-wire sensor | Yes |
| permissible quiescent current (2-wire sensor), max. | 1 mA |
| 1. Interface | |
| Interface type | Integrated RS 485 interface |
| Protocols | |
| • MPI | Yes; As MPI slave for data exchange with MPI masters (S7-300/S7-400 CPUs, OPs, TDs, Push Button Panels); S7-200-internal CPU/CPU communication is possible in the MPI network with restrictions; transmission rates: 19.2/187.5 kbit/s |
| • PPI | Yes; with PPI protocol for program functions, HMI functions (TD 200, OP), S7-200-internal CPU/CPU communication; transmission rates 9.6/19.2/187.5 kbit/s |
| serial data exchange | Yes; As freely programmable interface with interrupt facility for serial data exchange with third-party devices with ASCII protocol transfer rates: 1.2 / 2.4 / 4.8 / 9.6 / 19.2 / 38.4 / 57.6 / 115.2 kbps; the PC/PPI |
| | cable can also be used as RS 232/RS 485 converter |
| MPI | · · |
| MPI • Transmission rate, min. | · · |
| | cable can also be used as RS 232/RS 485 converter |
| Transmission rate, min. | cable can also be used as RS 232/RS 485 converter 19.2 kbit/s |
| Transmission rate, min.Transmission rate, max. | cable can also be used as RS 232/RS 485 converter 19.2 kbit/s |
| Transmission rate, min.Transmission rate, max.Interface | cable can also be used as RS 232/RS 485 converter 19.2 kbit/s 187.5 kbit/s |
| Transmission rate, min. Transmission rate, max. 2. Interface Interface type | cable can also be used as RS 232/RS 485 converter 19.2 kbit/s 187.5 kbit/s |
| Transmission rate, min. Transmission rate, max. Interface Interface type Protocols | cable can also be used as RS 232/RS 485 converter 19.2 kbit/s 187.5 kbit/s Integrated RS 485 interface Yes; As MPI slave for data exchange with MPI masters (S7-300/S7-400 CPUs, OPs, TDs, Push Button Panels); S7-200-internal CPU/CPU communication is possible in the MPI network with restrictions; |
| Transmission rate, min. Transmission rate, max. Interface Interface type Protocols MPI | cable can also be used as RS 232/RS 485 converter 19.2 kbit/s 187.5 kbit/s Integrated RS 485 interface Yes; As MPI slave for data exchange with MPI masters (S7-300/S7-400 CPUs, OPs, TDs, Push Button Panels); S7-200-internal CPU/CPU communication is possible in the MPI network with restrictions; transmission rates: 19.2/187.5 kbit/s Yes; with PPI protocol for program functions, HMI functions (TD 200, OP), S7-200-internal CPU/CPU communication; transmission rates |
| Transmission rate, min. Transmission rate, max. Interface Interface type Protocols MPI PPI serial data exchange Integrated Functions | cable can also be used as RS 232/RS 485 converter 19.2 kbit/s 187.5 kbit/s Integrated RS 485 interface Yes; As MPI slave for data exchange with MPI masters (S7-300/S7-400 CPUs, OPs, TDs, Push Button Panels); S7-200-internal CPU/CPU communication is possible in the MPI network with restrictions; transmission rates: 19.2/187.5 kbit/s Yes; with PPI protocol for program functions, HMI functions (TD 200, OP), S7-200-internal CPU/CPU communication; transmission rates 9.6/19.2/187.5 kbit/s Yes; As freely programmable interface with interrupt facility for serial data exchange with third-party devices with ASCII protocol transfer rates: 1.2 / 2.4 / 4.8 / 9.6 / 19.2 / 38.4 / 57.6 / 115.2 kbps; the PC/PPI |
| Transmission rate, min. Transmission rate, max. Interface Interface type Protocols MPI PPI serial data exchange | cable can also be used as RS 232/RS 485 converter 19.2 kbit/s 187.5 kbit/s Integrated RS 485 interface Yes; As MPI slave for data exchange with MPI masters (S7-300/S7-400 CPUs, OPs, TDs, Push Button Panels); S7-200-internal CPU/CPU communication is possible in the MPI network with restrictions; transmission rates: 19.2/187.5 kbit/s Yes; with PPI protocol for program functions, HMI functions (TD 200, OP), S7-200-internal CPU/CPU communication; transmission rates 9.6/19.2/187.5 kbit/s Yes; As freely programmable interface with interrupt facility for serial data exchange with third-party devices with ASCII protocol transfer rates: 1.2 / 2.4 / 4.8 / 9.6 / 19.2 / 38.4 / 57.6 / 115.2 kbps; the PC/PPI |



| | encoders with 2 pulse trains offset by 90° (max. 1 to 100 kHz and 3 to |
|--|---|
| | 20 kHz (A/B counters)); parameterizable enable and reset input; |
| | interrupt facilities (incl. call of subroutine with any content) when the setpoint is reached; reversal in counting direction, etc. |
| Counting frequency, max. | 200 kHz |
| Number of alarm inputs | 4; 4 rising edges and/or 4 falling edges |
| Number of pulse outputs | 2; High-speed outputs, 20 kHz, with interrupt option; pulse-width and |
| | frequency modulation option |
| Limit frequency (pulse) | 20 kHz |
| Potential separation | |
| Potential separation digital inputs | |
| between the channels | Yes |
| between the channels, in groups of | 6 and 8 |
| Potential separation digital outputs | |
| between the channels | Yes; Optocoupler |
| between the channels, in groups of | 5 |
| Permissible potential difference | |
| between different circuits | 500 V DC between 24 V DC and 5 V DC |
| Degree and class of protection | |
| IP degree of protection | IP20 |
| Ambient conditions | |
| Ambient temperature during operation | |
| horizontal installation, min. | 0 °C |
| horizontal installation, max. | 55 °C |
| vertical installation, min. | 0 °C |
| vertical installation, max. | 45 °C |
| Air pressure acc. to IEC 60068-2-13 | |
| permissible range, lower limit | 860 hPa |
| permissible range, upper limit | 1 080 hPa |
| Relative humidity | |
| Operation, min. | 5 % |
| Operation, max. | 95 %; RH class 2 in accordance with IEC 1131-2 |
| configuration / header | |
| configuration / programming / header | |
| Command set | Bit logic instructions, compare instructions, timer instructions, counter instructions, clock instructions, transmissions instructions, table |
| | instructions, logic instructions, shift and rotate instructions, conversion |
| | instructions, program control instructions, interrupt and communications |
| | instructions, logic stack instructions, integer maths, floating-point math instructions, numerical functions |
| Program processing | free cycle (OB 1), interrupt-controller, time-controlled (1 to 255 ms) |
| Program organization | 1 OB, 1 DB, 1 SDB subroutines with/without parameter transfer |
| Number of subroutines, max. | 64 |
| Programming language | |
| — LAD | Yes |
| — FBD | Yes |
| — STL | Yes |
| Know-how protection | |
| User program protection/password protection | Yes; 3-stage password protection |
| connection method / header | |
| Plug-in I/O terminals | Yes |
| Dimensions | |
| Width | 140 mm |
| Height | 80 mm |
| Depth | 62 mm |
| Weights | |
| Weight, approx. | 390 g |
| | _ |
| last modified: | 3/12/2021 🖸 |
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