

SIMATIC IPC 477E 15" Multitouch (1366 x 768); 4 USB (back), Ethernet (10/100/1000); Core i5-6442EQ; 3x Gbit Ethernet (IE/PN); 16 GB; without RS 232/RS485; without PCIe; Windows 10 IoT Enterprise 2016 LTSC (64-bit) for Celeron, i3 and i5; Without replaceable mass storage; 240 GB solid-state drive SATA Without SIMATIC software; 24 V DC industrial power supply

| General information                        |                                                                                                                                                                                                            |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product type designation                   | IPC477E                                                                                                                                                                                                    |
| Display                                    |                                                                                                                                                                                                            |
| Design of display                          | 15" TFT multi-touch                                                                                                                                                                                        |
| Screen diagonal                            | 15.6 in                                                                                                                                                                                                    |
| Resolution (pixels)                        |                                                                                                                                                                                                            |
| • Horizontal image resolution              | 1 366 pixel                                                                                                                                                                                                |
| • Vertical image resolution                | 768 pixel                                                                                                                                                                                                  |
| Backlighting                               |                                                                                                                                                                                                            |
| • MTBF backlighting (at 25 °C)             | 50 000 h                                                                                                                                                                                                   |
| Control elements                           |                                                                                                                                                                                                            |
| Input device                               |                                                                                                                                                                                                            |
| • Mouse, at front                          | No                                                                                                                                                                                                         |
| Keyboard                                   |                                                                                                                                                                                                            |
| • Function keys                            | No                                                                                                                                                                                                         |
| • alphanumeric keyboard                    | No                                                                                                                                                                                                         |
| Touch operation                            |                                                                                                                                                                                                            |
| • Design as multi-touch screen             | Yes; Projective-capacitive                                                                                                                                                                                 |
| Installation type/mounting                 |                                                                                                                                                                                                            |
| Mounting                                   | For horizontal and vertical mounting                                                                                                                                                                       |
| Design                                     | Panel PC, built-in unit                                                                                                                                                                                    |
| central design                             | Yes                                                                                                                                                                                                        |
| distributed design                         | No                                                                                                                                                                                                         |
| Mounting in portrait format possible       | Yes                                                                                                                                                                                                        |
| Supply voltage                             |                                                                                                                                                                                                            |
| Type of supply voltage                     | 100/240 V AC (autorange) 50/60 Hz; optional 24 V DC                                                                                                                                                        |
| Line frequency                             |                                                                                                                                                                                                            |
| • Rated value 50 Hz                        | Yes                                                                                                                                                                                                        |
| • Rated value 60 Hz                        | Yes                                                                                                                                                                                                        |
| Mains buffering                            |                                                                                                                                                                                                            |
| • Mains/voltage failure stored energy time | 20 ms                                                                                                                                                                                                      |
| Power loss                                 |                                                                                                                                                                                                            |
| In full configuration                      | 24 V DC: max. 88 W, 110 ... 230 V AC                                                                                                                                                                       |
| Processor                                  |                                                                                                                                                                                                            |
| Processor type                             | Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT) |
| Chipset                                    | Intel C236 / Intel H110                                                                                                                                                                                    |
| Graphic                                    |                                                                                                                                                                                                            |
| Graphics controller                        | Intel HD graphics controller                                                                                                                                                                               |
| Drives                                     |                                                                                                                                                                                                            |
| Hard disk                                  | 2.5" SATA ≥ 320 GB                                                                                                                                                                                         |
| SSD                                        | Yes; 128 / 240 / 480 GB                                                                                                                                                                                    |
| Storage                                    |                                                                                                                                                                                                            |
| Type of memory                             | DDR4-2400 SO-DIMM                                                                                                                                                                                          |
| Main memory                                | 4 / 8 / 16 GB, ECC optional                                                                                                                                                                                |
| Capacity of main memory, max.              | 16 Gbyte                                                                                                                                                                                                   |

|                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                            |
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| <b>Data areas and their retentivity</b>                                                                                                                                                                         |                                                                                                                                                                                                                                                                                            |
| Retentive data area (incl. timers, counters, flags), max.                                                                                                                                                       | 512 kbyte; 128 KB can be stored in the buffer time; optional                                                                                                                                                                                                                               |
| <b>Hardware configuration</b>                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                            |
| <b>Slots</b>                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                            |
| <ul style="list-style-type: none"> <li>• free slots</li> <li>• Number of PCI slots</li> <li>• Number of compact flash slots</li> </ul>                                                                          | 1x PCIe (slot with card retainer), 1x slot for CFAST card<br>1; Optional<br>1; CFAST                                                                                                                                                                                                       |
| <b>Interfaces</b>                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                            |
| Number of industrial Ethernet interfaces                                                                                                                                                                        | 3; 3x Ethernet (RJ45)                                                                                                                                                                                                                                                                      |
| USB port                                                                                                                                                                                                        | 4x USB 3.0                                                                                                                                                                                                                                                                                 |
| Connection for keyboard/mouse                                                                                                                                                                                   | USB / USB                                                                                                                                                                                                                                                                                  |
| <b>Video interfaces</b>                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                            |
| <ul style="list-style-type: none"> <li>• Graphics interface</li> </ul>                                                                                                                                          | 2x DisplayPort                                                                                                                                                                                                                                                                             |
| <b>Industrial Ethernet</b>                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                            |
| <ul style="list-style-type: none"> <li>• Industrial Ethernet interface               <ul style="list-style-type: none"> <li>— 100 Mbps</li> <li>— 1000 Mbps</li> </ul> </li> </ul>                              | 3x Ethernet (RJ45)<br>Yes<br>Yes                                                                                                                                                                                                                                                           |
| <b>Interrupts/diagnostics/status information</b>                                                                                                                                                                |                                                                                                                                                                                                                                                                                            |
| Bus diagnostics                                                                                                                                                                                                 | Yes                                                                                                                                                                                                                                                                                        |
| <b>Integrated Functions</b>                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                            |
| <b>Monitoring functions</b>                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                            |
| <ul style="list-style-type: none"> <li>• Temperature monitoring</li> <li>• Watchdog</li> <li>• Fan</li> <li>• Monitoring function via network</li> </ul>                                                        | Yes<br>Yes<br>No<br>Optional                                                                                                                                                                                                                                                               |
| <b>EMC</b>                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                            |
| <b>Interference immunity against discharge of static electricity</b>                                                                                                                                            |                                                                                                                                                                                                                                                                                            |
| <ul style="list-style-type: none"> <li>• Interference immunity against discharge of static electricity</li> </ul>                                                                                               | ±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2                                                                                                                                                                                                   |
| <b>Interference immunity against high-frequency electromagnetic fields</b>                                                                                                                                      |                                                                                                                                                                                                                                                                                            |
| <ul style="list-style-type: none"> <li>• Interference immunity against high frequency radiation</li> </ul>                                                                                                      | 10 V/m, 80 ... 2 000 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 ... 2.7 GHz; 10 V, 10 kHz ... 80 MHz acc. to IEC 61000-4-6                                                                                                                                                               |
| <b>Interference immunity to cable-borne interference</b>                                                                                                                                                        |                                                                                                                                                                                                                                                                                            |
| <ul style="list-style-type: none"> <li>• Interference immunity on supply cables</li> <li>• Interference immunity on signal cables &gt;30m</li> <li>• Interference immunity on signal cables &lt; 30m</li> </ul> | ±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric<br>±2 kV acc. to IEC 61000-4-5, surge, length > 30 m<br>±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m |
| <b>Interference immunity against voltage surge</b>                                                                                                                                                              |                                                                                                                                                                                                                                                                                            |
| <ul style="list-style-type: none"> <li>• asymmetric interference</li> <li>• symmetric interference</li> </ul>                                                                                                   | ±2 kV acc. to IEC 61000-4-5, surge asymmetric<br>±1 kV acc. to IEC 61000-4-5, surge symmetric                                                                                                                                                                                              |
| <b>Interference immunity to magnetic fields</b>                                                                                                                                                                 |                                                                                                                                                                                                                                                                                            |
| <ul style="list-style-type: none"> <li>• Interference immunity to magnetic fields at 50 Hz</li> </ul>                                                                                                           | 100 A/m; to IEC 61000-4-8                                                                                                                                                                                                                                                                  |
| <b>Emission of conducted and non-conducted interference</b>                                                                                                                                                     |                                                                                                                                                                                                                                                                                            |
| <ul style="list-style-type: none"> <li>• Interference emission via line/AC current cables</li> </ul>                                                                                                            | EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A                                                                                                                                                                                                                                  |
| <b>Degree and class of protection</b>                                                                                                                                                                           |                                                                                                                                                                                                                                                                                            |
| IP (at the front)                                                                                                                                                                                               | IP65                                                                                                                                                                                                                                                                                       |
| IP (rear)                                                                                                                                                                                                       | IP20                                                                                                                                                                                                                                                                                       |
| <b>Standards, approvals, certificates</b>                                                                                                                                                                       |                                                                                                                                                                                                                                                                                            |
| CE mark                                                                                                                                                                                                         | Yes                                                                                                                                                                                                                                                                                        |
| CSA approval                                                                                                                                                                                                    | Yes                                                                                                                                                                                                                                                                                        |
| UL approval                                                                                                                                                                                                     | Yes                                                                                                                                                                                                                                                                                        |
| <ul style="list-style-type: none"> <li>• UL 508</li> </ul>                                                                                                                                                      | Yes                                                                                                                                                                                                                                                                                        |
| cULus                                                                                                                                                                                                           | Yes                                                                                                                                                                                                                                                                                        |
| RCM (formerly C-TICK)                                                                                                                                                                                           | Yes                                                                                                                                                                                                                                                                                        |
| KC approval                                                                                                                                                                                                     | Yes                                                                                                                                                                                                                                                                                        |
| EAC (formerly Gost-R)                                                                                                                                                                                           | Yes                                                                                                                                                                                                                                                                                        |
| FCC                                                                                                                                                                                                             | Yes                                                                                                                                                                                                                                                                                        |
| EMC                                                                                                                                                                                                             | CE, EN 61000-6-4; CISPR 22:2004 Class A; FCC Class A                                                                                                                                                                                                                                       |
| Use in hazardous areas                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                            |

|                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
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| <ul style="list-style-type: none"><li>• ATEX Zone 2</li><li>• IECEx Zone 2</li><li>• cULus Class I Zone 2, Division 2</li></ul> | Yes; Optional, only with Multitouch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
|                                                                                                                                 | Yes; Optional, only with Multitouch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
|                                                                                                                                 | Yes; Optional, only with Multitouch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| Marine approval                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| <ul style="list-style-type: none"><li>• Germanischer Lloyd (GL)</li></ul>                                                       | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| <ul style="list-style-type: none"><li>• American Bureau of Shipping (ABS)</li></ul>                                             | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| <ul style="list-style-type: none"><li>• Bureau Veritas (BV)</li></ul>                                                           | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| <ul style="list-style-type: none"><li>• Det Norske Veritas (DNV)</li></ul>                                                      | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| <ul style="list-style-type: none"><li>• Korean Register of Shipping (KRS)</li></ul>                                             | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| <ul style="list-style-type: none"><li>• Lloyds Register of Shipping (LRS)</li></ul>                                             | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| <ul style="list-style-type: none"><li>• Nippon Kaiji Kyokai (Class NK)</li></ul>                                                | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| Ambient conditions                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| Ambient temperature during operation                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| <ul style="list-style-type: none"><li>• min.</li></ul>                                                                          | 0 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| <ul style="list-style-type: none"><li>• max.</li></ul>                                                                          | 45 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| Ambient temperature during storage/transportation                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| <ul style="list-style-type: none"><li>• min.</li></ul>                                                                          | -20 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| <ul style="list-style-type: none"><li>• max.</li></ul>                                                                          | 60 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| Relative humidity                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| <ul style="list-style-type: none"><li>• Relative humidity</li></ul>                                                             | Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 °C (no condensation)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| Vibrations                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| <ul style="list-style-type: none"><li>• Vibration resistance during operation acc. to IEC 60068-2-6</li></ul>                   | IEC 60068-2-6; 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 500 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 4.9 m/s² (hard disk)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| Shock testing                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| <ul style="list-style-type: none"><li>• Shock load during operation</li></ul>                                                   | IEC 60068-2-27; 150 m/s², 11 ms (without hard disk); 50 m/s², 30 ms (with hard disk)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| Operating systems                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| pre-installed operating system                                                                                                  | Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| without operating system                                                                                                        | Yes; Optional                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| pre-installed operating system                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| <ul style="list-style-type: none"><li>• Windows 7</li></ul>                                                                     | Yes; Ultimate 64 bit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| <ul style="list-style-type: none"><li>• Windows 10 Enterprise</li></ul>                                                         | Yes; Windows 10 Enterprise 2016 LTSC, 64 bit, MUI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| Software                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| SIMATIC Software                                                                                                                | Optionally with pre-installed SIMATIC WinCC RT Advanced / Software Controller CPU 1500S software bundle                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| Dimensions                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| Width of the housing front                                                                                                      | 398 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| Height of housing front                                                                                                         | 257 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| Mounting cutout, width                                                                                                          | 382 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| Mounting cutout, height                                                                                                         | 241 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| mounting depth                                                                                                                  | 76 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| Weights                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| Weight, approx.                                                                                                                 | 5.2 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| Classifications                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
|                                                                                                                                 | <table><tr><td></td><td>Version</td><td>Classification</td></tr><tr><td>eClass</td><td>14</td><td>19-20-01-03</td></tr><tr><td>eClass</td><td>12</td><td>19-20-01-03</td></tr><tr><td>eClass</td><td>9.1</td><td>19-20-01-03</td></tr><tr><td>eClass</td><td>9</td><td>19-20-01-03</td></tr><tr><td>eClass</td><td>8</td><td>27-24-23-01</td></tr><tr><td>eClass</td><td>7.1</td><td>27-24-23-01</td></tr><tr><td>eClass</td><td>6</td><td>27-24-23-01</td></tr><tr><td>ETIM</td><td>10</td><td>EC001414</td></tr><tr><td>ETIM</td><td>9</td><td>EC001414</td></tr><tr><td>ETIM</td><td>8</td><td>EC001414</td></tr><tr><td>ETIM</td><td>7</td><td>EC001414</td></tr></table> |                | Version | Classification | eClass | 14 | 19-20-01-03 | eClass | 12 | 19-20-01-03 | eClass | 9.1 | 19-20-01-03 | eClass | 9 | 19-20-01-03 | eClass | 8 | 27-24-23-01 | eClass | 7.1 | 27-24-23-01 | eClass | 6 | 27-24-23-01 | ETIM | 10 | EC001414 | ETIM | 9 | EC001414 | ETIM | 8 | EC001414 | ETIM | 7 | EC001414 |
|                                                                                                                                 | Version                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Classification |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| eClass                                                                                                                          | 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 19-20-01-03    |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| eClass                                                                                                                          | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 19-20-01-03    |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| eClass                                                                                                                          | 9.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 19-20-01-03    |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| eClass                                                                                                                          | 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 19-20-01-03    |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| eClass                                                                                                                          | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 27-24-23-01    |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| eClass                                                                                                                          | 7.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 27-24-23-01    |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| eClass                                                                                                                          | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 27-24-23-01    |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| ETIM                                                                                                                            | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | EC001414       |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| ETIM                                                                                                                            | 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | EC001414       |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| ETIM                                                                                                                            | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | EC001414       |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |
| ETIM                                                                                                                            | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | EC001414       |         |                |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |

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