SIEMENS

## Data sheet 6AV7863-7MA00-2AA0

SIMATIC IFP2400 V2, 24" multi-touch display (16:9) with 1920x1080 pixel resolution, built-in unit, for 24 V DC, display port/DVI interface, including DP/USB cable 1.8 m, on the rear USB, standard design



Figure similar

| | |
|---|---|
| **General information** | |
| Product type designation | IFP2400 V2 |
| Short designation | SIMATIC IFP2400 V2 |
| **Display** | |
| Design of display | TFT widescreen display, LED backlighting |
| Screen diagonal | 23.8 in; 24" |
| Screen diagonal [cm] | 60.47 cm |
| Display width | 527 mm |
| Display height | 296 mm |
| On Screen Display (OSD) configuration | No; Adjustable by means of software |
| Number of colors | 16 777 216; 24 bit |
| Viewing angle | 178° x 178° |
| Resolution (pixels) | |
| ● Image resolution | 1 920 x 1 080 |
| ● Horizontal image resolution | 1 920 pixel |
| ● Vertical image resolution | 1 080 pixel |
| ● Pixel size, horizontal | 0.2745 mm |
| ● Pixel size, vertical | 0.2745 mm |
| General features | |
| ● Brightness/contrast | 250 cd/m² / 1 000:1 |
| ● non-reflective and tempered mineral glass screen | Yes |
| ● Detachable from computer unit | 5 m |
| ● Luminance | 250 cd/m² |
| Backlighting | |
| ● Type of backlighting | LED |
| ● MTBF backlighting (at 25 °C) | 50 000 h; At 25°C |
| ● Backlight dimmable | Yes; 0-100 % |
| **Control elements** | |
| Control elements | multi-touch screen |
| Input device | |
| ● Integrated mouse cursor control | Yes; Also externally via USB |
| Touch operation | |
| ● Design as touch screen | Yes; Projective-capacitive |
| ● Design as multi-touch screen | Yes; Projective-capacitive |
| ● Monitor keyboard | Yes; If supported by operating system |
| **Installation type/mounting** | |
| Design | Built-in unit |
| Front mounting | Yes |
| VESA mounting | Yes; VESA 100 x 100 integrated |


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| | |
|---|---|
| Mounting in portrait format possible | Yes |
| Mounting in landscape format possible | Yes |
| Built-in unit | Yes; Portrait mode possible |
| maximum permitted forward tilt angle from vertical | 35° |
| maximum permitted backward tilt angle from vertical | 35° |
| **Supply voltage** | |
| Type of supply voltage | DC |
| Rated value (DC) | 24 V; PELV / SELV floating |
| permissible range, lower limit (DC) | 19.2 V |
| permissible range, upper limit (DC) | 28.8 V |
| **Input current** | |
| Current consumption (rated value) | 1.5 A |
| Current consumption, max. | 1.9 A |
| Starting current inrush I²t | 0.5 A²·s |
| **Power loss** | |
| Power loss, typ. | 36 W |
| Power loss, max. | 41 W |
| **Interfaces** | |
| Number of USB interfaces | 2; USB 2.0 type A |
| USB on the rear | Yes; 2x onboard |
| Connection for keyboard/mouse | USB |
| Video interfaces | |
| ● DVI-D | Yes |
| ● DisplayPort | Yes; Display port V1.2 |
| Touch interfaces | |
| ● USB | Yes |
| **Degree and class of protection** | |
| IP (at the front) | IP65 |
| IP (rear) | IP20 |
| NEMA (front) | |
| ● Enclosure Type 4 at the front | Yes |
| ● Enclosure Type 4x at the front | Yes |
| ● Enclosure Type 12 at the front | Yes |
| **Standards, approvals, certificates** | |
| Certificate of suitability | hazardous zone 2/22; shipbuilding |
| CE mark | Yes |
| UL approval | Yes; cULus, cUL |
| cULus | Yes |
| FM approval | Yes; Class I Div. 2 |
| RCM (formerly C-TICK) | Yes |
| EAC (formerly Gost-R) | Yes |
| EMC | CE, EN 55011, EN 61000-6-4, EN 61000-6-2 |
| Ecological footprint | |
| ● environmental product declaration | Yes |
| Global warming potential | |
| — global warming potential, (total) [CO2 eq] | 599.24824 kg |
| — global warming potential, (during production) [CO2 eq] | 102.49892 kg |
| — global warming potential, (during operation) [CO2 eq] | 511.99699 kg |
| — global warming potential, (after end of life cycle) [CO2 eq] | -18.11975 kg |
| Use in hazardous areas | |
| ● ATEX Zone 2 | Yes |
| ● ATEX Zone 22 | Yes |
| ● IECEx Zone 2 | Yes |
| ● IECEx Zone 22 | Yes |
| ● FM Class I Division 2 | No |
| Marine approval | |
| ● Germanischer Lloyd (GL) | Yes |
| ● American Bureau of Shipping (ABS) | Yes |


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| | |
|---|---|
| ● Bureau Veritas (BV) | Yes |
| ● Det Norske Veritas (DNV) | Yes |
| ● Lloyds Register of Shipping (LRS) | Yes |
| ● Nippon Kaiji Kyokai (Class NK) | Yes |
| **Ambient conditions** | |
| Ambient temperature during operation | |
| ● min. | 0 °C |
| ● max. | 45 °C |
| Ambient temperature during storage/transportation | |
| ● min. | -20 °C |
| ● max. | 60 °C |
| Altitude during operation relating to sea level | |
| ● Installation altitude above sea level, max. | 3 500 m |
| Relative humidity | |
| ● Operation, max. | 90 %; no condensation |
| Vibrations | |
| ● Vibration load in operation | 10 m/s² |
| ● Vibration load during transport/storage | 10 m/s² |
| Shock testing | |
| ● Shock load during operation | 150 m/s² |
| ● shock acceleration during storage/transport | 250 m/s² |
| **Mechanics/material** | |
| Enclosure material (front) | |
| ● Aluminum | Yes |
| ● Aluminum casting | Yes |
| ● Glass | Yes; at front |
| Enclosure material (rear) | aluminum |
| **Dimensions** | |
| Width of the housing front | 585 mm |
| Height of housing front | 363 mm |
| Mounting cutout, width | 569.6 mm; Tolerance: +1 mm |
| Mounting cutout, height | 347.6 mm; Tolerance: +1 mm |
| Overall depth | 63.4 mm |
| **Weights** | |
| Weight (without packaging) | 7.9 kg |
| Weight (with packaging) | 9.9 kg |

**Classifications**

| | Version | Classification |
|---|---|---|
| eClass | 14 | 19-20-02-01 |
| eClass | 12 | 19-20-02-01 |
| eClass | 9.1 | 19-20-02-01 |
| eClass | 9 | 19-20-02-01 |
| eClass | 8 | 19-20-02-01 |
| eClass | 7.1 | 19-20-02-01 |
| eClass | 6 | 19-20-02-01 |
| ETIM | 10 | EC004862 |
| ETIM | 9 | EC001428 |
| ETIM | 8 | EC001428 |
| ETIM | 7 | EC001428 |
| IDEA | 4 | 6675 |
| UNSPSC | 15 | 43-21-19-02 |

**Approvals / Certificates**

| General Product Approval | Maritime application |
|---|---|


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| other | | Environment |
| --- | --- | --- |
| Confirmation |  | Environmental Confirmations |



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