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## Data sheet 6AV6646-1BA18-0AA1

SIMATIC ITC1900 V3, industrial thin client, 19" widescreen TFT display, capacitive touch sensor, supported protocols: RDP, VNC, SmartServer HTML5 and others standard design, built-in unit



| | |
|---|---|
| **General information** | |
| Product type designation | ITC1900 V3 |
| **Display** | |
| Design of display | TFT widescreen display, LED backlighting |
| Screen diagonal | 18.5 in |
| Display width | 409 mm |
| Display height | 230 mm |
| Number of colors | 16 777 216 |
| Resolution (pixels) | |
| ● Horizontal image resolution | 1 366 pixel |
| ● Vertical image resolution | 768 pixel |
| General features | |
| ● non-reflective and tempered mineral glass screen | Yes |
| Backlighting | |
| ● MTBF backlighting (at 25 °C) | 50 000 h; At 25°C |
| ● Backlight dimmable | Yes; LED, dimmable |
| **Control elements** | |
| Touch operation | |
| ● Design as multi-touch screen | Yes; Projective-capacitive |
| ● Monitor keyboard | Yes |
| **Installation type/mounting** | |
| Design | Built-in unit |
| Front mounting | Yes |
| Built-in unit | Yes |
| 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 |
| permissible range, lower limit (DC) | 19.2 V |
| permissible range, upper limit (DC) | 28.8 V |
| **Input current** | |
| Current consumption (rated value) | 1.8 A |
| Current consumption, max. | 2.2 A |
| Starting current inrush I²t | 0.5 A²·s |
| **Power** | |
| Active power input, typ. | 43.2 W |
| **Interfaces** | |
| Number of industrial Ethernet interfaces | 2; 2 ports (switch) |
| Number of USB interfaces | 4; on rear |


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| Connection for keyboard/mouse | USB |
| Industrial Ethernet | |
| ● Transmission rate, max. | 1 000 Mbit/s |
| **Protocols** | |
| Protocols (Ethernet) | |
| ● TCP/IP | Yes |
| ● DHCP | Yes |
| ● SNMP | Yes |
| ● DCP | Yes |
| ● LLDP | Yes |
| WEB characteristics | |
| ● HTTP | Yes |
| ● HTTPS | Yes |
| ● HTML | Yes; HTML5 |
| ● XML | Yes |
| ● CSS | Yes |
| ● JavaScript | Yes |
| ● Java VM | No |
| Protocols (terminal link) | |
| ● Sm@rtServer | Yes |
| ● RDP | Yes |
| ● VNC viewer | Yes |
| ● Citrix | Yes |
| ● SINUMERIK | Yes |
| **Degree and class of protection** | |
| IP (at the front) | IP65 |
| NEMA (front) | |
| ● Enclosure Type 4x at the front | Yes |
| ● Enclosure Type 12 at the front | Yes |
| **Standards, approvals, certificates** | |
| CE mark | Yes |
| cULus | Yes |
| FM approval | Yes |
| RCM (formerly C-TICK) | Yes |
| KC approval | Yes |
| EAC (formerly Gost-R) | No; in preparation |
| Use in hazardous areas | |
| ● ATEX Zone 2 | Yes |
| ● ATEX Zone 22 | Yes |
| ● IECEx Zone 2 | Yes |
| ● IECEx Zone 22 | Yes |
| ● cULus Class I Zone 2, Division 2 | Yes |
| ● FM Class I Division 2 | Yes |
| Marine approval | |
| ● Germanischer Lloyd (GL) | No |
| ● American Bureau of Shipping (ABS) | No |
| ● Bureau Veritas (BV) | No |
| ● Det Norske Veritas (DNV) | No |
| ● Korean Register of Shipping (KRS) | No |
| ● Lloyds Register of Shipping (LRS) | No |
| ● Nippon Kaiji Kyokai (Class NK) | No |
| ● Polski Rejestr Statkow (PRS) | No |
| ● Chinese Classification Society (CCS) | No |
| **Ambient conditions** | |
| Ambient temperature during operation | |
| ● min. | 0 °C |
| ● max. | 45 °C |
| Ambient temperature during storage/transportation | |
| ● min. | -20 °C |
| ● max. | 60 °C |


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| 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 | 150 m/s² |
| **Software** | |
| Web browser | Yes; HTML5, CSS |
| PDF reader | Yes |
| **configuration / header** | |
| Configuration | |
| ● Local | Yes |
| ● Remote | Yes; Via web page |
| **Languages** | |
| Online languages | |
| ● Number of online/runtime languages | 2; german / english |
| **Peripherals/Options** | |
| USB memory | Yes; USB storage medium can be connected |
| **Mechanics/material** | |
| Enclosure material (front) | |
| ● Aluminum | Yes |
| **Dimensions** | |
| Width of the housing front | 464 mm |
| Height of housing front | 294 mm |
| Mounting cutout, width | 448 mm |
| Mounting cutout, height | 278 mm |
| Overall depth | 73 mm |
| **Weights** | |
| Weight (without packaging) | 6.1 kg |

**Classifications**

| | 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 |

**Approvals / Certificates**

**General Product Approval**

RCM CE EG-Konf. UKCA Manufacturer Declaration Miscellaneous UL

| General Product Approval | For use in hazardous locations |
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KC

CQC

ATEX

ATEX

IECEx

UL

**For use in hazardous locations**

UL

FM

CCC-Ex

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