6AV2125-2AE23-0AX0

## **Data sheet**



SIMATIC HMI connection box Advanced for Mobile Panels, wall mounting, PROFINET and PROFIsafe, connection of safety relay, emergency stop circuit bridging, terminal detection, Integrated switch, MRP client, IRT

General information		
Product type designation	Connection box	
Product function		
<ul> <li>Web-based management</li> </ul>	Yes	
FH technology		
Safety evaluation through direct wiring		
<ul> <li>Reconnection without emergency stop circuit interruption</li> </ul>	Yes	
<ul> <li>Reconnection with emergency stop circuit interruption</li> </ul>	No	
<ul> <li>Monitoring the STOP button</li> </ul>	Yes	
<ul> <li>Monitoring of emergency stop button</li> </ul>	Yes	
Monitoring of acknowledgement button	Yes	
Safety evaluation via PROFIsafe		
<ul> <li>Reconnection without emergency stop circuit interruption</li> </ul>	Yes	
<ul> <li>Reconnection with emergency stop circuit interruption</li> </ul>	No	
<ul> <li>Monitoring the STOP button</li> </ul>	Yes	
<ul> <li>Monitoring of emergency stop button</li> </ul>	Yes	
<ul> <li>Monitoring of acknowledgement button</li> </ul>	Yes	
Installation type/mounting		
Wall mounting/direct mounting	Yes	
Control cabinet installation	No	
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)	95 mA	
Starting current inrush I2t	0.16 A <sup>2</sup> ·s	
Power		
Active power input, typ.	2.3 W	
Interfaces		
Number of industrial Ethernet interfaces	3	
Number of PROFINET interfaces	3	
Connection point identification	Yes	

Industrial Ethernet	
Industrial Ethernet status LED	3
Protocols	
PROFINET	Yes
IRT	Yes
PROFIsafe	Yes
EtherNet/IP	Yes
AS-Interface	No
EIB/KNX	No No
Protocols (Ethernet)	
• TCP/IP	Yes
• DHCP	Yes
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
Redundancy mode	100
Media redundancy	
— MRP	Yes
Further protocols	100
MODBUS	Yes
other bus systems	No
EMC	140
Emission of radio interference acc. to EN 55 011	No
Limit class A, for use in industrial areas	No No
Limit class B, for use in residential areas	No
Degree and class of protection	
IP degree of protection	IP65
IP65 (all-round)	Yes
IP (at the front)	IP65
Standards, approvals, certificates	
CE mark	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	No; Available soon
Suitable for safety functions	Yes
Highest safety class achievable in safety mode	
<ul> <li>Performance level according to ISO 13849-1</li> </ul>	PLe
SIL acc. to IEC 61508	SIL 3
Use in hazardous areas	
ATEX Zone 2	No
ATEX Zone 22	No
• cULus Class I Zone 1	No
• cULus Class I Zone 2, Division 2	No
FM Class I Division 2	No
Marine approval	
<ul> <li>Germanischer Lloyd (GL)</li> </ul>	Yes
<ul> <li>American Bureau of Shipping (ABS)</li> </ul>	Yes
<ul> <li>Bureau Veritas (BV)</li> </ul>	No; Available soon
<ul> <li>Det Norske Veritas (DNV)</li> </ul>	Yes
<ul> <li>Korean Register of Shipping (KRS)</li> </ul>	No
<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	Yes
<ul> <li>Nippon Kaiji Kyokai (Class NK)</li> </ul>	Yes
<ul> <li>Polski Rejestr Statkow (PRS)</li> </ul>	No
Chinese Classification Society (CCS)	No
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	55 °C

Relative humidity		
Operation, max.	90 %	
configuration / header		
Configuration software		
<ul> <li>STEP 7 Professional (TIA Portal)</li> </ul>	No	
<ul> <li>WinCC Comfort (TIA Portal)</li> </ul>	Yes; Optional	
<ul> <li>WinCC Advanced (TIA Portal)</li> </ul>	Yes; Optional	
<ul> <li>WinCC Professional (TIA Portal)</li> </ul>	Yes; Optional	
Mechanics/material		
Enclosure material (front)		
Plastic	Yes	
<ul> <li>Aluminum</li> </ul>	No	
<ul> <li>Stainless steel</li> </ul>	No	
Dimensions		
Width of the housing front	230 mm	
Height of housing front	145 mm	
Depth of housing	76 mm	
Weights		
Weight (without packaging)	0.72 kg	
Weight (with packaging)	0.8 kg	
Other		
Usable in the following products		
Product 1	6AV2125-*	

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last modified: