SIEMENS

Data sheet   **6AV2125-2AE23-0AX0**

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	Advanced
Product function	
• Web-based management	Yes

FH technology	
Safety evaluation through direct wiring	
• Reconnection without emergency stop circuit interruption	Yes
• Reconnection with emergency stop circuit interruption	No
• Monitoring the STOP button	Yes
• Monitoring of emergency stop button	Yes
• Monitoring of acknowledgement button	Yes
Safety evaluation via PROFIsafe	
• Reconnection without emergency stop circuit interruption	Yes
• Reconnection with emergency stop circuit interruption	No
• Monitoring the STOP button	Yes

• Monitoring of emergency stop button	Yes	
• Monitoring of acknowledgement button	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 A²·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	
AS-Interface	No	
EIB/KNX	No	
Protocols (Ethernet)		
• TCP/IP	Yes	
• DHCP	Yes	
• SNMP	Yes	
• DCP	Yes	
• LLDP	Yes	
Redundancy mode		
Media redundancy		
— MRP	Yes	
Further protocols		
• AS-Interface Safety at Work	No	
• CAN	No	
• Data-Highway	No	

● DeviceNet	No
● DeviceNet Safety	No
● EtherNet/IP	Yes
● Foundation Fieldbus	No
● INTERBUS	No
● INTERBUS-Safety	No
● Local Operating Network	No
● MODBUS	Yes
● SafetyBUS p	No
● SERCOS	No
● SUCOnet	No
● other bus systems	No

EMC	
Emission of radio interference acc. to EN 55 011	
● Limit class A, for use in industrial areas	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	
● Performance level according to ISO 13849-1	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	
● Germanischer Lloyd (GL)	Yes
● American Bureau of Shipping (ABS)	Yes
● Bureau Veritas (BV)	No; Available soon
● Det Norske Veritas (DNV)	Yes
● Korean Register of Shipping (KRS)	No

• Lloyds Register of Shipping (LRS)	Yes
• Nippon Kaiji Kyokai (Class NK)	Yes
• Polski Rejestr Statkow (PRS)	No
• Chinese Classification Society (CCS)	No

Ambient conditions
Ambient temperature during operation
• min.	0 °C
• max.	55 °C

Relative humidity
• Operation, max.	90 %

Configuration
Configuration software
• STEP 7 Professional (TIA Portal)	No
• WinCC Comfort (TIA Portal)	Yes; Optional
• WinCC Advanced (TIA Portal)	Yes; Optional
• WinCC Professional (TIA Portal)	Yes; Optional

Mechanics/material
Enclosure material (front)
• Plastic	Yes
• Aluminum	No
• Stainless steel	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 incl. packaging	0.8 kg

Other
Usable in the following products
• Product 1	6AV2125-*

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