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	Connection box	
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 I ² t	0.16 A ² ·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/ID	Voc
EtherNet/IP AS-Interface	Yes No
EIB/KNX	No
Protocols (Ethernet)	
• TCP/IP	Yes
• TCP/IP • DHCP	Yes
• DHCP • SNMP	Yes
• SNMP • DCP	Yes
• DCP • LLDP	Yes
ELDP Redundancy mode	
Media redundancy	
— MRP	Yes
Further protocols	
MODBUS	Yes
MODBUS other bus systems	Yes No
• other bus systems EMC	
Emission of radio interference acc. to EN 55 011	
	No
Limit class A, for use in industrial areas Limit class B, for use in residential areas	No
Limit class B, for use in residential areas Degree and class of protection	
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; in preparation
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; in preparation
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 / header	
Configuration software	
STEP 7 Professional (TIA Portal)	No
WinCC Comfort (TIA Portal)	Yes; Optional
Winec connorm (TA Portal) Winec Advanced (TIA Portal)	Yes; Optional
Wince Advanced (TA Portal) Wince Professional (TIA Portal)	Yes; Optional

Mechanics/material	
Enclosure material (front)	
Plastic	Yes
Aluminum	No
Stainless steel	No
Dimensions	
Width	230 mm
Height	151.3 mm
Depth	75.4 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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