6AV2125-2AE03-0AX0

Data sheet



SIMATIC HMI connection box compact for Mobile Panels, installation in control cabinet, PROFINET and PROFIsafe, connection of safety relay, Connection point detection

General information	
Product type designation	Connection box
Product function	
 Web-based management 	No
FH technology	
Safety evaluation through direct wiring	
 Reconnection without emergency stop circuit interruption 	No
 Reconnection with emergency stop circuit interruption 	Yes
 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	No
Control cabinet installation	Yes
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)	18 mA
Starting current inrush I²t	0.003 A²·s
Power	
Active power input, typ.	0.43 W
Interfaces	
Number of industrial Ethernet interfaces	2
Number of PROFINET interfaces	2
Connection point identification	Yes

Industrial Ethernet	
	0
Industrial Ethernet status LED	0
Protocols	
PROFINET	Yes; No switch functionality
IRT	No
PROFIsafe	Yes; No switch functionality
EtherNet/IP	Yes
AS-Interface	No
EIB/KNX	No
Protocols (Ethernet)	
• TCP/IP	Yes; No switch functionality
• DHCP	No
• SNMP	No
• DCP	No
• LLDP	No
Redundancy mode	
Media redundancy	
— MRP	No
Further protocols	
• MODBUS	Yes
other bus systems	No
EMC	
Emission of radio interference acc. to EN 55 011	
 Limit class A, for use in industrial areas 	Yes; EN 61000-6-4, interference emission: Intended for use in industrial
	areas.
Limit class B, for use in residential areas	No
Degree and class of protection	
IP (at the front)	IP65
IP (rear)	IP20
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
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Relative humidity	
 Operation, max. 	90 %
configuration / header	
Configuration software	
 STEP 7 Professional (TIA Portal) 	No
 WinCC Comfort (TIA Portal) 	No
 WinCC Advanced (TIA Portal) 	No
 WinCC Professional (TIA Portal) 	No
Mechanics/material	
Enclosure material (front)	
 Plastic 	Yes
 Aluminum 	No
 Stainless steel 	No
Dimensions	
Width of the housing front	96 mm
Height of housing front	125 mm
Depth of housing	78 mm
Mounting cutout, width	77.5 mm
Mounting cutout, height	106.5 mm
Overall depth	30 mm
Weights	
Weight (without packaging)	0.25 kg
Weight (with packaging)	0.29 kg
Other	
Usable in the following products	
• Product 1	6AV2125-*
	c3
last modified:	8/6/2021 🗗