## 6AG2134-6GD01-4BA1





SIPLUS ET 200SP AI 4xI 2-/4-wire TX rail based on 6ES7134-6GD01-0BA1 with conformal coating, -40...+70 °C, OT4 with ST1/2 (+85 °C for 10 minutes), analog input module, suitable for BU type A0, A1, color code CC03, module diagnostics, 16-bit, +/-0.3%

Product type designation  Firmware version  Firm	General information	
FW update possible usable BaseUnits BU type A0, A1 Color code for module-specific color identification plate CC03  Product function  Isochronous mode Isochronous mode No No No No Operating mode Oversampling No No CIR - Configuration in RUN Reparameterization possible in RUN Supply voltage Rated value (DC) permissible range, upper limit (DC) Tourent consumption, max Society of the consumption of	Product type designation	Al 4xl 2-/4-wire ST
usable BaseUnits Color code for module-specific color identification plate Product function  I kM data Sischronous mode Measuring range scalable Operating mode Oversampling Mo MS No  Cill Configuration in RUN Reparameterization possible in RUN No  Supply voltage  Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) p	Firmware version	
Color code for module-specific color identification plate Product function  • I&M data • Isochronous mode • Measuring range scalable Operating mode • Oversampling • MSI No  CIR - Configuration in RUN Reparameterization possible in RUN Supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) permissible range, upper limit (DC) Reverse polarity protection Yes  Input current Current consumption, max. 37 mA; without sensor supply 24 V encoder supply 24 V encoder supply 25 V encoder supply • 24 V eshort-circuit protection • Output current, max. 20 mA; max. 50 mA per channel for a duration < 10 s  Power loss Power loss Power loss Power loss Power loss space per module • Address space per module, max.  Rated value (DC) Address space per module • Address space per module • Address space per module • Address space per module, max.  Rated value (DC) Reverse polarity protection • Ves Power loss Power loss Power loss Power loss Power loss Power loss space per module • Address space per module for connection variants	FW update possible	Yes
Product function  • I&M data • Isochronous mode • Measuring range scalable  Operating mode • Oversampling • MSI • No  CIR - Configuration in RUN  Reparameterization possible in RUN  No  Supply voltage  Rated value (DC)  permissible range, lower limit (DC)  permissible range, upper limit (DC)  permissible range,	usable BaseUnits	BU type A0, A1
I No I Schronous mode No No Measuring range scalable No Operating mode Oversampling No No No  CIR - Configuration in RUN Reparameterization possible in RUN Calibration possible in RUN No Supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) permissible range, upper limit (DC) Reverse polarity protection Tourrent consumption, max. 37 mA; without sensor supply  24 V encoder supply  24 V encoder supply  24 V encoder supply  24 V encoder supply  26 V experioss Power loss Power loss Power loss Power loss Power loss typ. Address space per module max.  8 byte; + 1 byte for Ql information  Automatic encoding  • Mechanical coding element Yes Selection of BaseUnit for connection variants	Color code for module-specific color identification plate	CC03
Isochronous mode  Measuring range scalable  Operating mode  Oversampling  MSI  No  CIR - Configuration in RUN  Reparameterization possible in RUN  Reparameterization possible in RUN  Reparameterization possible in RUN  Robustia in RUN  No  Supply voltage  Rated value (DC)  permissible range, lower limit (DC)  permissible range, lower limit (DC)  permissible range, upper limit (DC)  permissible range, upper limit (DC)  permissible range, supper limit (DC)  permissible range,	Product function	
Measuring range scalable Operating mode Oversampling MSI No  CIR - Configuration in RUN Reparameterization possible in RUN Reparameterization possible in RUN No  Supply voltage Rated value (DC) Permissible range, lower limit (DC) Permissible range, lower limit (DC) Permissible range, upper limit (DC) Permissible range, upper limit (DC) Permissible range, supper limit (DC) Permi	● I&M data	Yes; I&M0 to I&M3
Operating mode  Oversampling MSI No MSI No  CIR - Configuration in RUN  Reparameterization possible in RUN  Calibration possible in RUN No  Supply voltage  Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) permissible range, upper limit (DC)  Reverse polarity protection Yes  Input current  Current consumption, max. 37 mA; without sensor supply  24 V encoder supply  24 V encoder supply  24 V encoder supply  25 V Yes Short-circuit protection Yes Output current, max. 20 mA; max. 50 mA per channel for a duration < 10 s  Power loss Power loss, typ.  Address space per module Address space per module, max.  8 byte; + 1 byte for QI information  Automatic encoding Automatic encoding Mechanical coding element Yes  Selection of BaseUnit for connection variants	<ul> <li>Isochronous mode</li> </ul>	No
Oversampling  Mo  MSI  No  CiR - Configuration in RUN  Reparameterization possible in RUN  Calibration possible in RUN  No  Supply voltage  Rated value (DC)  permissible range, lower limit (DC)  permissible range, upper limit (DC)  Reverse polarity protection  Yes  Input current  Current consumption, max.  37 mA; without sensor supply  24 V encoder supply  24 V encoder supply  24 V encoder supply  2 V yes  Short-circuit protection  Yes  Output current, max.  20 mA; max. 50 mA per channel for a duration < 10 s  Power loss, typ.  Address space per module  Address space per module  Address space per module, max.  8 byte; + 1 byte for Ql information  Hardware configuration  Automatic encoding  Mechanical coding element  Yes  Selection of BaseUnit for connection variants	Measuring range scalable	No
MSI  CiR - Configuration in RUN  Reparameterization possible in RUN  Reparameterization possible in RUN  Calibration possible in RUN  No  Supply voltage  Rated value (DC)  permissible range, lower limit (DC)  permissible range, upper limit (DC)  permissible range, upper limit (DC)  Reverse polarity protection  Yes  Input current  Current consumption, max.  37 mA; without sensor supply  24 V encoder supply  24 V encoder supply  • 24 V  • Short-circuit protection  Yes  Output current, max.  20 mA; max. 50 mA per channel for a duration < 10 s  Power loss  Power loss, typ.  0.85 W; Without encoder supply voltage  Address space per module  • Address space per module, max.  8 byte; + 1 byte for QI information  Hardware configuration  Automatic encoding  • Mechanical coding element  Yes  Selection of BaseUnit for connection variants	Operating mode	
CIR - Configuration in RUN  Reparameterization possible in RUN  Calibration possible in RUN  No  Supply voltage  Rated value (DC) 24 V  permissible range, lower limit (DC) 19.2 V  permissible range, upper limit (DC) 28.8 V  Reverse polarity protection Yes  Input current  Current consumption, max. 37 mA; without sensor supply  Encoder supply  24 V encoder supply  24 V encoder supply  24 V Yes  Short-circuit protection Yes  Output current, max. 20 mA; max. 50 mA per channel for a duration < 10 s  Power loss  Power loss, typ. 0.85 W; Without encoder supply voltage  Address space per module  Address space per module, max. 8 byte; + 1 byte for Ql information  Hardware configuration  Automatic encoding  Mechanical coding element Yes  Selection of BaseUnit for connection variants	<ul> <li>Oversampling</li> </ul>	No
Reparameterization possible in RUN Calibration possible in RUN No Supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) Reverse polarity protection Yes Input current Current consumption, max. 37 mA; without sensor supply 24 V encoder supply 24 V encoder supply  24 V Short-circuit protection Yes Output current, max. 20 mA; max. 50 mA per channel for a duration < 10 s  Power loss Power loss, typ. Address area Address space per module Address space per module, max.  8 byte; + 1 byte for Ql information  Automatic encoding Mechanical coding element Yes Selection of BaseUnit for connection variants	• MSI	No
Calibration possible in RUN  Supply voltage  Rated value (DC) 24 V permissible range, lower limit (DC) 19.2 V permissible range, upper limit (DC) 28.8 V Reverse polarity protection Yes  Input current  Current consumption, max. 37 mA; without sensor supply  Encoder supply  24 V encoder supply  24 V encoder supply  • 24 V • Short-circuit protection Yes  • Output current, max. 20 mA; max. 50 mA per channel for a duration < 10 s  Power loss  Power loss  Power loss, typ. 0.85 W; Without encoder supply voltage  Address space per module • Address space per module, max. 8 byte; + 1 byte for QI information  Hardware configuration  Automatic encoding • Mechanical coding element Yes  Selection of BaseUnit for connection variants	CiR - Configuration in RUN	
Rated value (DC) 24 V permissible range, lower limit (DC) 19.2 V permissible range, upper limit (DC) 28.8 V Reverse polarity protection Yes  Input current  Current consumption, max. 37 mA; without sensor supply  Encoder supply  24 V encoder supply  24 V encoder supply  • 24 V • Short-circuit protection Yes • Output current, max. 20 mA; max. 50 mA per channel for a duration < 10 s  Power loss  Power loss, typ. 0.85 W; Without encoder supply voltage  Address area  Address area  Address space per module • Address space per module, max. 8 byte; + 1 byte for QI information  Hardware configuration  Automatic encoding • Mechanical coding element Yes  Selection of BaseUnit for connection variants	Reparameterization possible in RUN	Yes
Rated value (DC) 24 V permissible range, lower limit (DC) 19.2 V permissible range, upper limit (DC) 28.8 V Reverse polarity protection Yes Input current Current consumption, max. 37 mA; without sensor supply  Encoder supply 24 V encoder supply  • 24 V • Short-circuit protection Yes • Output current, max. 20 mA; max. 50 mA per channel for a duration < 10 s  Power loss Power loss, typ. 0.85 W; Without encoder supply voltage  Address space per module • Address space per module, max. 8 byte; + 1 byte for QI information  Hardware configuration  Automatic encoding • Mechanical coding element Yes  Selection of BaseUnit for connection variants	Calibration possible in RUN	No
permissible range, lower limit (DC)  permissible range, upper limit (DC)  Reverse polarity protection  Yes  Input current  Current consumption, max.  37 mA; without sensor supply  Encoder supply  24 V encoder supply  • 24 V  • Short-circuit protection  • Output current, max.  20 mA; max. 50 mA per channel for a duration < 10 s  Power loss  Power loss, typ.  Address space per module  • Address space per module, max.  8 byte; + 1 byte for Ql information  Automatic encoding  • Mechanical coding element  Yes  Selection of BaseUnit for connection variants	Supply voltage	
permissible range, upper limit (DC)  Reverse polarity protection  Input current  Current consumption, max.  27 mA; without sensor supply  Encoder supply  24 V encoder supply  24 V yes  Short-circuit protection  Output current, max.  20 mA; max. 50 mA per channel for a duration < 10 s  Power loss  Power loss  Power loss, typ.  Address space per module  Address space per module, max.  8 byte; +1 byte for QI information  Hardware configuration  Automatic encoding  Mechanical coding element  Yes  Selection of BaseUnit for connection variants	Rated value (DC)	24 V
Reverse polarity protection  Input current  Current consumption, max.  27 mA; without sensor supply  Encoder supply  24 V encoder supply  24 V yes  Short-circuit protection  Output current, max.  20 mA; max. 50 mA per channel for a duration < 10 s  Power loss  Power loss, typ.  Address space per module  Address space per module, max.  8 byte; +1 byte for QI information  Hardware configuration  Automatic encoding  Mechanical coding element  Yes  Selection of BaseUnit for connection variants	permissible range, lower limit (DC)	19.2 V
Input current Current consumption, max.  27 MA; without sensor supply  24 V encoder supply  24 V encoder supply  25 Short-circuit protection  Current, max.  20 mA; max. 50 mA per channel for a duration < 10 s  20 mA; max. 50 mA per channel for a duration < 10 s  20 mA; max. 50 mA per channel for a duration < 10 s  20 mA; max. 50 mA per channel for a duration < 10 s  20 mA; max. 50 mA per channel for a duration < 10 s  20 mA; max. 50 mA per channel for a duration < 10 s  20 mA; max. 50 mA per channel for a duration < 10 s  20 mA; max. 50 mA per channel for a duration < 10 s  20 mA; max. 50 mA per channel for a duration < 10 s  20 mA; max. 50 mA per channel for a duration < 10 s  20 mA; max. 50 mA per channel for a duration < 10 s  20 mA; max. 50 mA per channel for a duration < 10 s  20 mA; max. 50 mA per channel for a duration < 10 s  20 mA; max. 50 mA per channel for a duration < 10 s  20 mA; max. 50 mA per channel for a duration < 10 s  20 mA; max. 50 mA per channel for a duration < 10 s  20 mA; max. 50 mA per channel for a duration < 10 s	permissible range, upper limit (DC)	28.8 V
Current consumption, max.  37 mA; without sensor supply  24 V encoder supply  • 24 V • Short-circuit protection • Output current, max.  20 mA; max. 50 mA per channel for a duration < 10 s  Power loss  Power loss  Power loss, typ.  0.85 W; Without encoder supply voltage  Address area  Address space per module • Address space per module, max.  8 byte; + 1 byte for QI information  Hardware configuration  Automatic encoding • Mechanical coding element  Yes  Selection of BaseUnit for connection variants	Reverse polarity protection	Yes
Encoder supply  24 V encoder supply  24 V Short-circuit protection Output current, max.  20 mA; max. 50 mA per channel for a duration < 10 s  Power loss  Power loss, typ.  0.85 W; Without encoder supply voltage  Address area  Address space per module Address space per module, max.  8 byte; + 1 byte for QI information  Hardware configuration  Automatic encoding Mechanical coding element  Yes  Selection of BaseUnit for connection variants	Input current	
24 V encoder supply  • 24 V  • Short-circuit protection  • Output current, max.  Power loss  Power loss, typ.  0.85 W; Without encoder supply voltage  Address area  Address space per module  • Address space per module, max.  8 byte; + 1 byte for QI information  Hardware configuration  Automatic encoding  • Mechanical coding element  Selection of BaseUnit for connection variants	Current consumption, max.	37 mA; without sensor supply
Yes     Short-circuit protection     Yes     Output current, max.     20 mA; max. 50 mA per channel for a duration < 10 s  Power loss  Power loss, typ.     0.85 W; Without encoder supply voltage  Address area  Address space per module     Address space per module, max.  8 byte; + 1 byte for QI information  Hardware configuration  Automatic encoding     Mechanical coding element  Yes  Selection of BaseUnit for connection variants	Encoder supply	
Short-circuit protection Output current, max.  Output current, max.  Power loss  Power loss, typ.  Output current, max.  Output cur	24 V encoder supply	
Output current, max.  20 mA; max. 50 mA per channel for a duration < 10 s  Power loss  Power loss, typ.  0.85 W; Without encoder supply voltage  Address area  Address space per module  • Address space per module, max.  8 byte; + 1 byte for QI information  Hardware configuration  Automatic encoding  • Mechanical coding element  Yes  Selection of BaseUnit for connection variants	• 24 V	Yes
Power loss Power loss, typ. 0.85 W; Without encoder supply voltage  Address area  Address space per module  • Address space per module, max. 8 byte; + 1 byte for QI information  Hardware configuration  Automatic encoding  • Mechanical coding element Yes  Selection of BaseUnit for connection variants	Short-circuit protection	Yes
Power loss, typ.  Address area  Address space per module  • Address space per module, max.  8 byte; + 1 byte for QI information  Hardware configuration  Automatic encoding  • Mechanical coding element  Selection of BaseUnit for connection variants	<ul> <li>Output current, max.</li> </ul>	20 mA; max. 50 mA per channel for a duration < 10 s
Address area  Address space per module  • Address space per module, max.  8 byte; + 1 byte for QI information  Hardware configuration  Automatic encoding  • Mechanical coding element  Yes  Selection of BaseUnit for connection variants	Power loss	
Address space per module  • Address space per module, max.  8 byte; + 1 byte for QI information  Hardware configuration  Automatic encoding  • Mechanical coding element  Yes  Selection of BaseUnit for connection variants	Power loss, typ.	0.85 W; Without encoder supply voltage
Address space per module, max.      B byte; + 1 byte for QI information  Hardware configuration  Automatic encoding      Mechanical coding element  Selection of BaseUnit for connection variants	Address area	
Hardware configuration  Automatic encoding  • Mechanical coding element  Selection of BaseUnit for connection variants  Yes	Address space per module	
Automatic encoding  • Mechanical coding element  Yes  Selection of BaseUnit for connection variants	Address space per module, max.	8 byte; + 1 byte for QI information
Mechanical coding element     Yes  Selection of BaseUnit for connection variants	Hardware configuration	
Selection of BaseUnit for connection variants	Automatic encoding	
Selection of BaseUnit for connection variants	Mechanical coding element	Yes
• 2-wire connection BII type A0 A1		
Do type Au, A I	2-wire connection	BU type A0, A1
• 4-wire connection BU type A0, A1	4-wire connection	BU type A0, A1
Analog inputs	Analog inputs	

Number of angles inputs	4: > 60 °C may 1y +20 mA parmissible
Number of analog inputs  permissible input current for current input (destruction limit),	4; > 60 °C max. 1x ±20 mA permissible  50 mA
max.	oo iiin
Cycle time (all channels), min.	Sum of the basic conversion times and additional processing times (depending on the parameterization of the active channels)
Input ranges (rated values), currents	
• 0 to 20 mA	Yes; 16 bit incl. sign
<ul><li>— Input resistance (0 to 20 mA)</li></ul>	100 $\Omega$ ; + approx. 0.7 V diode forward voltage in 2-wire operation
• -20 mA to +20 mA	Yes
— Input resistance (-20 mA to +20 mA)	100 Ω
• 4 mA to 20 mA	Yes; 15 bit
<ul> <li>— Input resistance (4 mA to 20 mA)</li> </ul>	100 $\Omega$ ; + approx. 0.7 V diode forward voltage in 2-wire operation
Cable length	
• shielded, max.	1 000 m
Analog value generation for the inputs	
Measurement principle	integrating (Sigma-Delta)
Integration and conversion time/resolution per channel	
<ul> <li>Resolution with overrange (bit including sign), max.</li> </ul>	16 bit
<ul> <li>Integration time, parameterizable</li> </ul>	Yes
<ul> <li>Interference voltage suppression for interference frequency f1 in Hz</li> </ul>	16.6 / 50 / 60 Hz
Conversion time (per channel)	180 / 60 / 50 ms
Smoothing of measured values	
<ul> <li>Number of smoothing levels</li> </ul>	4; None; 4/8/16 times
parameterizable	Yes
Encoder	
Connection of signal encoders	
<ul> <li>for voltage measurement</li> </ul>	No
<ul> <li>for current measurement as 2-wire transducer</li> </ul>	Yes
<ul> <li>Burden of 2-wire transmitter, max.</li> </ul>	650 Ω
for current measurement as 4-wire transducer	Yes
Errors/accuracies	
Linearity error (relative to input range), (+/-)	0.01 %
Temperature error (relative to input range), (+/-)	0.005 %/K
Crosstalk between the inputs, min.	50 dB; Applies to up to ±5 V overvoltage in other channels
Repeat accuracy in steady state at 25 °C (relative to input range), (+/-)	0.05 %
Operational error limit in overall temperature range	0.7.0/
Current, relative to input range, (+/-)	0.7 %
Basic error limit (operational limit at 25 °C)	0.00/
• Current, relative to input range, (+/-)	0.3 %
Interference voltage suppression for f = n x (f1 +/- 1 %), f1 = interference	
<ul> <li>Series mode interference (peak value of interference &lt; rated value of input range), min.</li> </ul>	70 dB
Common mode voltage, max.     Common mode interference, min.	10 V
Common mode interference, min.  Interrupte//discrepation/status information.	90 dB
Interrupts/diagnostics/status information	Voc
Diagnostics function	Yes
Alarms  • Diagnostic alarm	Yes
Diagnostic alarm     Limit value alarm	res No
Diagnoses	NO
Monitoring the supply voltage	Yes
Wire-break	Yes; at 4 to 20 mA
Short-circuit	Yes; 2-wire mode: Short-circuit of the encoder supply to ground or of an input to the encoder supply
	11. 7
Group error	Yes
Group error     Overflow/underflow	Yes Yes
Overflow/underflow	
Overflow/underflow     Diagnostics indication LED	Yes
Overflow/underflow	

for module diagnostics	Yes; green/red LED
Potential separation	
Potential separation channels	
• between the channels	Yes; channel group-specific between 2-wire current input group and 4-wire voltage input group
<ul> <li>between the channels and backplane bus</li> </ul>	Yes
<ul> <li>between the channels and the power supply of the electronics</li> </ul>	Yes; only for 4-wire transducer
Permissible potential difference	
between the inputs (UCM)	10 V DC
Isolation	
Isolation tested with	750 V DC (type test) and according to EN 50155 (routine test)
Standards, approvals, certificates	
Railway application	
• EN 50121-3-2	Yes; EMC for rail vehicles
• EN 50121-4	Yes; EMC for signal and telecommunications systems
● EN 50124-1	Yes; Railway applications - overvoltage category OV2; pollution degree PD2; rated surge voltage UNi = 0.5 kV; UNm = 24 V DC
• EN 50125-1	Yes; Rail vehicles - see ambient conditions
• EN 50125-2	Yes; Stationary electrical equipment - see ambient conditions
• EN 50125-3	Yes; Signal and telecommunications systems - see ambient conditions; vibrations and shocks: Application point outside of tracks (1 m to 3 m away from track)
● EN 50155	Yes; Rail vehicles - temperature class OT4, ST1/ST2, horizontal mounting position
• EN 61373	Yes; Rail vehicles - vibrations and shocks: Category 1 Class A/B
• Fire protection acc. to EN 45545-2	Yes; For proof of conformity, see Service & Support
Ambient conditions	
Ambient temperature during operation	
<ul> <li>horizontal installation, min.</li> </ul>	-40 °C; = Tmin (incl. condensation/frost)
<ul> <li>horizontal installation, max.</li> </ul>	70 °C; = Tmax; +85 °C for 10 min (OT4, ST1/ST2 acc. to EN 50155)
<ul> <li>vertical installation, min.</li> </ul>	-40 °C; = Tmin
vertical installation, max.	50 °C; = Tmax
Altitude during operation relating to sea level	
<ul> <li>Installation altitude above sea level, max.</li> </ul>	2 000 m
Ambient air temperature-barometric pressure-altitude	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m)
Relative humidity     With condensation, tested in accordance with IEC 60068-	100 %; RH incl. condensation / frost (no commissioning in bedewed state),
2-38, max.	horizontal installation
Resistance	
Coolants and lubricants  — Resistant to commercially available coolants and	Yes; Incl. diesel and oil droplets in the air
lubricants	
Use in stationary industrial systems	V 01 000 116
— to biologically active substances according to EN 60721-3-3	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
— to chemically active substances according to EN 60721-3-3	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Ves: Class 3S4 incl. sand. dust. *
— to mechanically active substances according to EN 60721-3-3  Against mechanical environmental conditions according to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust, *  Ves; Class 3M8 using the SIPLUS Mounting Kit ET 200SP (6AC1103 6AA00
Against mechanical environmental conditions acc. to EN 60721-3-3  Lise on land craft, rail valvioles and special purpose valvioles.	Yes; Class 3M8 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00-0AA0)
Use on land craft, rail vehicles and special-purpose vehicles	Voc. Class EP2 mold fungue and dry ret anarra (with the averation of favorable
— to biologically active substances according to EN 60721-3-5	Yes; Class 5B2 mold, fungus and dry rot spores (with the exception of fauna); Class 5B3 on request
— to chemically active substances according to EN 60721-3-5	Yes; Class 5C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Ves: Class 5S3 incl. sand. dust: *
<ul> <li>to mechanically active substances according to EN 60721-3-5</li> <li>Against mechanical environmental conditions acc.</li> </ul>	Yes; Class 5S3 incl. sand, dust; *  Yes; Class 5M2 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00-
to EN 60721-3-5  — against mechanical environmental conditions acc.  — against mechanical environmental conditions in	0AA0)  Yes; level 1 (Location LE) using the SIPLUS Mounting Kit ET 200SP
agriculture acc. to ISO 15003  Usage in industrial process technology	(6AG1193-6AA00-0AA0)
Against chemically active substances acc. to EN	Yes; Class 3 (excluding trichlorethylene)
60654-4	

<ul> <li>Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04</li> </ul>	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)
Remark	
<ul> <li>Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04</li> </ul>	* The supplied plug covers must remain in place over the unused interfaces during operation!
Conformal coating	
<ul> <li>Coatings for printed circuit board assemblies acc. to EN 61086</li> </ul>	Yes; Class 2 for high reliability
<ul> <li>Protection against fouling acc. to EN 60664-3</li> </ul>	Yes; Type 1 protection
<ul> <li>Electronic equipment on rolling stock acc. to EN 50155</li> </ul>	Yes; Class PC2 protective coating acc. to EN 50155:2017
<ul> <li>Military testing according to MIL-I-46058C, Amendment 7</li> </ul>	Yes; Discoloration of coating possible during service life
<ul> <li>Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC- CC-830A</li> </ul>	Yes; Conformal coating, Class A
Dimensions	
Width	15 mm
Height	73 mm
Depth	58 mm
Weights	
Weight, approx.	31 g
Other	
Note:	for use in railway applications, also observe the product information "SIPLUS extreme RAIL" A5E37661960A, Online Support article 109736776

last modified:

3/18/2022