SIEMENS

Data sheet

6AG2531-7KF00-4AB0



SIPLUS S7-1500 AI 8xU/I/RTD/TC TX rail based on 6ES7531-7KF00-0AB0 with conformal coating, -40...+70 °C, OT4 with ST1/2 (+85 °C for 10 minutes), analog input module 16-bit resolution, accuracy 0.3%, 8 channels in groups of 8, 4 channels for RTD measurement, common mode voltage 10 V; diagnostics; hardware interrupts including infeed element, shielding bracket and shield terminal

General information			
Product type designation	AI 8xU/I/RTD/TC ST		
Firmware version			
FW update possible	Yes		
based on	6ES7531-7KF00-0AB0		
Product function			
I&M data	Yes; I&M0 to I&M3		
Isochronous mode	No		
Prioritized startup	No		
 Measuring range scalable 	No		
 Scalable measured values 	No		
 Adjustment of measuring range 	No		
Engineering with			
STEP 7 TIA Portal configurable/integrated from version	see entry ID: 109746275		
Operating mode			
Oversampling	No		
• MSI	Yes		
CiR - Configuration in RUN			
Reparameterization possible in RUN	Yes		
Calibration possible in RUN	Yes		
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.	240 mA; with 24 V DC supply		
Encoder supply			
24 V encoder supply			
 Short-circuit protection 	Yes		
Output current, max.	20 mA; Max. 47 mA per channel for a duration < 10 s		
Power			
Power consumption from the backplane bus	0.7 W		
Power loss			
Power loss, typ.	2.7 W		
Analog inputs			
Number of analog inputs	8; > +60 °C max. 2x ±20 mA or 4x ±10 V or 4x RTD permissible		
For current measurement	8		
 For voltage measurement 	8		
• For resistance/resistance thermometer measurement	4		

 For thermocouple measurement 	8	
permissible input voltage for voltage input (destruction limit),	o 28.8 V	
max.		
permissible input current for current input (destruction limit), max.	40 mA	
Technical unit for temperature measurement adjustable	Yes; °C/°F/K	
Input ranges (rated values), voltages		
• 0 to +5 V	No	
• 0 to +10 V	No	
• 1 V to 5 V	Yes	
— Input resistance (1 V to 5 V)	100 kΩ	
• -1 V to +1 V	Yes	
— Input resistance (-1 V to +1 V)	10 ΜΩ	
• -10 V to +10 V	Yes	
- Input resistance (-10 V to +10 V)	100 kΩ	
• -2.5 V to +2.5 V	Yes	
- Input resistance (-2.5 V to +2.5 V)	10 ΜΩ	
• -25 mV to +25 mV	No	
 -250 mV to +250 mV 	Yes	
- Input resistance (-250 mV to +250 mV)	10 ΜΩ	
• -5 V to +5 V	Yes	
— Input resistance (-5 V to +5 V)	100 kΩ	
• -50 mV to +50 mV	Yes	
— Input resistance (-50 mV to +50 mV)	10 ΜΩ	
● -500 mV to +500 mV	Yes	
— Input resistance (-500 mV to +500 mV)	10 MΩ	
• -80 mV to +80 mV	Yes	
- Input resistance (-80 mV to +80 mV)	10 MΩ	
Input ranges (rated values), currents		
• 0 to 20 mA	Yes	
- Input resistance (0 to 20 mA)	25 Ω ; Plus approx. 42 ohms for overvoltage protection by PTC	
• -20 mA to +20 mA	Yes	
- Input resistance (-20 mA to +20 mA)	25 Ω ; Plus approx. 42 ohms for overvoltage protection by PTC	
• 4 mA to 20 mA	Yes	
— Input resistance (4 mA to 20 mA)	25 Ω ; Plus approx. 42 ohms for overvoltage protection by PTC	
Input ranges (rated values), thermocouples		
• Туре В	Yes	
— Input resistance (Type B)	10 ΜΩ	
• Type C	No	
• Туре Е	Yes	
— Input resistance (Type E)	10 MΩ	
• Туре Ј	Yes	
— Input resistance (type J)	10 MΩ	
• Туре К	Yes	
— Input resistance (Type K)	10 ΜΩ	
• Type L	No	
• Type N	Yes	
— Input resistance (Type N)	10 ΜΩ	
• Type R	Yes	
— Input resistance (Type R)	10 ΜΩ	
• Type S	Yes	
— Input resistance (Type S)	10 ΜΩ	
• Туре Т	Yes	
— Input resistance (Type T)	10 ΜΩ	
• Type TXK/TXK(L) to GOST	No	
Input ranges (rated values), resistance thermometer		
• Cu 10	No	
Cu 10 Cu 10 according to GOST	No	
• Cu 50	No	
Cu 50 Cu 50 according to GOST	No	
• Cu 100	No	
54.00		

 Cu 100 according to GOST 	No			
• Ni 10	No			
 Ni 10 according to GOST 	No			
• Ni 100	Yes; Standard/climate			
— Input resistance (Ni 100)	10 ΜΩ			
Ni 100 according to GOST	No			
• Ni 1000	Yes; Standard/climate			
— Input resistance (Ni 1000)				
Ni 1000 according to GOST	No			
• LG-Ni 1000				
— Input resistance (LG-Ni 1000)	Yes; Standard/climate			
• Ni 120	10 MΩ			
	No			
Ni 120 according to GOST	No			
Ni 200 according to GOST	No			
• Ni 500	No			
Ni 500 according to GOST	No			
• Pt 10	No			
 Pt 10 according to GOST 	No			
• Pt 50	No			
 Pt 50 according to GOST 	No			
• Pt 100	Yes; Standard/climate			
— Input resistance (Pt 100)	10 ΜΩ			
 Pt 100 according to GOST 	No			
• Pt 1000	Yes; Standard/climate			
— Input resistance (Pt 1000)	10 MΩ			
 Pt 1000 according to GOST 	No			
• Pt 200	Yes; Standard/climate			
— Input resistance (Pt 200)	10 ΜΩ			
Pt 200 according to GOST	No			
• Pt 500	Yes; Standard/climate			
— Input resistance (Pt 500)	10 MΩ			
Pt 500 according to GOST	No			
Input ranges (rated values), resistors				
• 0 to 150 ohms	Yes			
— Input resistance (0 to 150 ohms)	10 ΜΩ			
• 0 to 300 ohms	Yes			
- Input resistance (0 to 300 ohms)	10 MΩ			
• 0 to 600 ohms	Yes			
- Input resistance (0 to 600 ohms)	10 ΜΩ			
• 0 to 3000 ohms				
	No Yes			
• 0 to 6000 ohms				
— Input resistance (0 to 6000 ohms)	10 MΩ			
• PTC	Yes			
— Input resistance (PTC)	10 ΜΩ			
Thermocouple (TC)				
Temperature compensation				
— parameterizable	Yes			
 internal temperature compensation 	Yes			
 — external temperature compensation via RTD 	Yes			
 — Compensation for 0 °C reference point temperature 	Yes; fixed value can be set			
 Reference channel of the module 	Yes			
Cable length				
 shielded, max. 				
	800 m; for U/I, 200 m for R/RTD, 50 m for TC			
	800 m; for U/l, 200 m for R/RTD, 50 m for TC			
	800 m; for U/l, 200 m for R/RTD, 50 m for TC			
Analog value generation for the inputs	800 m; for U/l, 200 m for R/RTD, 50 m for TC 16 bit			
Analog value generation for the inputs Integration and conversion time/resolution per channel				
Analog value generation for the inputs Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max.	16 bit			
Analog value generation for the inputs Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable	16 bit Yes			
Analog value generation for the inputs Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Integration time (ms)	16 bit Yes 2,5 / 16,67 / 20 / 100 ms			

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measurement	Pt1000, Ni1000, LG-Ni1000, PTC: 4 ms		
 Interference voltage suppression for interference frequency f1 in Hz 	400 / 60 / 50 / 10 Hz		
 Time for offset calibration (per module) 	Basic conversion time of the slowest channel		
Smoothing of measured values			
parameterizable	Yes		
Step: None	Yes		
Step: low	Yes		
Step: Medium	Yes		
Step: High	Yes		
incoder			
Connection of signal encoders			
for voltage measurement	Yes		
 for current measurement as 2-wire transducer 	Yes		
— Burden of 2-wire transmitter, max.	820 Ω		
for current measurement as 4-wire transducer	Yes		
for resistance measurement with two-wire connection			
	Yes; Only for PTC		
• for resistance measurement with three-wire connection	Yes; All measuring ranges except PTC; internal compensation of the cable resistances		
 for resistance measurement with four-wire connection 	Yes; All measuring ranges except PTC		
rrors/accuracies			
Linearity error (relative to input range), (+/-)	0.02 %		
Temperature error (relative to input range), (+/-)	0.005 %/K; With TC type T 0.02 ± % / K		
Crosstalk between the inputs, max.	-80 dB		
Repeat accuracy in steady state at 25 °C (relative to input range), (+/-)	0.02 %		
Temperature error of internal compensation	±6 °C		
Operational error limit in overall temperature range			
 Voltage, relative to input range, (+/-) 	0.5 %		
• Current, relative to input range, (+/-)	0.5 %		
Resistance, relative to input range, (+/-)	0.5 %		
Resistance thermometer, relative to input range, (+/-)	Ptxxx standard: ±1.5 K, Ptxxx climate: ±0.5 K, Nixxx standard: ±0.5 K, Nixxx		
• Thermocouple, relative to input range, (+/-)	climate: ±0.3 K Type B: > 600 °C ±4.6 K, type E: > -200 °C ±1.5 K, type J: > -210 °C ±1.9 K, type K: > -200 °C ±2.4 K, type N: > -200 °C ±2.9 K, type R: > 0 °C ±4.7 K, type S: > 0 °C ±4.6 K, type T: > -200 °C ±2.4 K		
Basic error limit (operational limit at 25 °C)	5. 20 6 14.0 K, type 1. 2200 6 12.4 K		
	0.4.9/		
• Voltage, relative to input range, (+/-)	0.1 %		
 Current, relative to input range, (+/-) 	0.1 %		
 Resistance, relative to input range, (+/-) 	0.1 %		
• Resistance thermometer, relative to input range, (+/-)	Ptxxx standard: ±0.7 K, Ptxxx climate: ±0.2 K, Nixxx standard: ±0.3 K, Nixxx climate: ±0.15 K		
• Thermocouple, relative to input range, (+/-)	Type B: > 600 °C ±1.7 K, type E: > -200 °C ±0.7 K, type J: > -210 °C ±0.8 K, type K: > -200 °C ±1.2 K, type N: > -200 °C ±1.2 K, type R: > 0 °C ±1.9 K, type S: > 0 °C ±1.9 K, type T: > -200 °C ±0.8 K		
• Thermocouple, relative to input range, (+/-) Interference voltage suppression for f = n x (f1 +/- 1 %), f1 = interf	type K: > -200 °C ±1.2 K, type N: > -200 °C ±1.2 K, type R: > 0 °C ±1.9 K, type S: > 0 °C ±1.9 K, type T: > -200 °C ±0.8 K		
Interference voltage suppression for f = n x (f1 +/- 1 %), f1 = interf • Series mode interference (peak value of interference <	type K: > -200 °C ±1.2 K, type N: > -200 °C ±1.2 K, type R: > 0 °C ±1.9 K, type S: > 0 °C ±1.9 K, type T: > -200 °C ±0.8 K		
Interference voltage suppression for f = n x (f1 +/- 1 %), f1 = interf • Series mode interference (peak value of interference < rated value of input range), min.	type K: > -200 °C ±1.2 K, type N: > -200 °C ±1.2 K, type R: > 0 °C ±1.9 K, type S: > 0 °C ±1.9 K, type T: > -200 °C ±0.8 K erence frequency 40 dB		
 Interference voltage suppression for f = n x (f1 +/- 1 %), f1 = interf Series mode interference (peak value of interference < rated value of input range), min. Common mode voltage, max. 	type K: > -200 °C ±1.2 K, type N: > -200 °C ±1.2 K, type R: > 0 °C ±1.9 K, type S: > 0 °C ±1.9 K, type T: > -200 °C ±0.8 K erence frequency 40 dB 10 V		
 Interference voltage suppression for f = n x (f1 +/- 1 %), f1 = interf Series mode interference (peak value of interference < rated value of input range), min. Common mode voltage, max. Common mode interference, min. 	type K: > -200 °C ±1.2 K, type N: > -200 °C ±1.2 K, type R: > 0 °C ±1.9 K, type S: > 0 °C ±1.9 K, type T: > -200 °C ±0.8 K erence frequency 40 dB		
Interference voltage suppression for f = n x (f1 +/- 1 %), f1 = interf • Series mode interference (peak value of interference < rated value of input range), min. • Common mode voltage, max. • Common mode interference, min. hterrupts/diagnostics/status information	type K: > -200 °C ±1.2 K, type N: > -200 °C ±1.2 K, type R: > 0 °C ±1.9 K, type S: > 0 °C ±1.9 K, type T: > -200 °C ±0.8 K erence frequency 40 dB 10 V 60 dB		
Interference voltage suppression for f = n x (f1 +/- 1 %), f1 = interf • Series mode interference (peak value of interference < rated value of input range), min. • Common mode voltage, max. • Common mode interference, min. hterrupts/diagnostics/status information Diagnostics function	type K: > -200 °C ±1.2 K, type N: > -200 °C ±1.2 K, type R: > 0 °C ±1.9 K, type S: > 0 °C ±1.9 K, type T: > -200 °C ±0.8 K erence frequency 40 dB 10 V		
Interference voltage suppression for f = n x (f1 +/- 1 %), f1 = interf • Series mode interference (peak value of interference < rated value of input range), min. • Common mode voltage, max. • Common mode interference, min. hterrupts/diagnostics/status information Diagnostics function Alarms	type K: > -200 °C ±1.2 K, type N: > -200 °C ±1.2 K, type R: > 0 °C ±1.9 K, type S: > 0 °C ±1.9 K, type T: > -200 °C ±0.8 K erence frequency 40 dB 10 ∨ 60 dB		
Interference voltage suppression for f = n x (f1 +/- 1 %), f1 = interf • Series mode interference (peak value of interference < rated value of input range), min. • Common mode voltage, max. • Common mode interference, min. hterrupts/diagnostics/status information Diagnostics function Alarms • Diagnostic alarm	type K: > -200 °C ±1.2 K, type N: > -200 °C ±1.2 K, type R: > 0 °C ±1.9 K, type S: > 0 °C ±1.9 K, type T: > -200 °C ±0.8 K erence frequency 40 dB 10 V 60 dB Yes		
Interference voltage suppression for f = n x (f1 +/- 1 %), f1 = interf • Series mode interference (peak value of interference < rated value of input range), min. • Common mode voltage, max. • Common mode interference, min. hterrupts/diagnostics/status information Diagnostics function Alarms	type K: > -200 °C ±1.2 K, type N: > -200 °C ±1.2 K, type R: > 0 °C ±1.9 K, type S: > 0 °C ±1.9 K, type T: > -200 °C ±0.8 K erence frequency 40 dB 10 ∨ 60 dB		
Interference voltage suppression for f = n x (f1 +/- 1 %), f1 = interf • Series mode interference (peak value of interference < rated value of input range), min. • Common mode voltage, max. • Common mode interference, min. hterrupts/diagnostics/status information Diagnostics function Alarms • Diagnostic alarm	type K: > -200 °C ±1.2 K, type N: > -200 °C ±1.2 K, type R: > 0 °C ±1.9 K, type S: > 0 °C ±1.9 K, type T: > -200 °C ±0.8 K erence frequency 40 dB 10 V 60 dB Yes		
Interference voltage suppression for f = n x (f1 +/- 1 %), f1 = interf • Series mode interference (peak value of interference < rated value of input range), min. • Common mode voltage, max. • Common mode interference, min. hterrupts/diagnostics/status information Diagnostics function Alarms • Diagnostic alarm • Limit value alarm	type K: > -200 °C ±1.2 K, type N: > -200 °C ±1.2 K, type R: > 0 °C ±1.9 K, type S: > 0 °C ±1.9 K, type T: > -200 °C ±0.8 K erence frequency 40 dB 10 V 60 dB Yes		
Interference voltage suppression for f = n x (f1 +/- 1 %), f1 = interf • Series mode interference (peak value of interference < rated value of input range), min. • Common mode voltage, max. • Common mode interference, min. Interrupts/diagnostics/status information Diagnostics function Alarms • Diagnostic alarm • Limit value alarm Diagnoses	type K: > -200 °C ±1.2 K, type N: > -200 °C ±1.2 K, type R: > 0 °C ±1.9 K, type S: > 0 °C ±1.9 K, type T: > -200 °C ±0.8 K erence frequency 40 dB 10 V 60 dB Yes Yes Yes Yes; two upper and two lower limit values in each case		
Interference voltage suppression for f = n x (f1 +/- 1 %), f1 = interf • Series mode interference (peak value of interference < rated value of input range), min. • Common mode voltage, max. • Common mode interference, min. • Common mode interference, min. • terrupts/diagnostics/status information Diagnostics function Alarms • Diagnostic alarm • Limit value alarm Diagnoses • Monitoring the supply voltage	type K: > -200 °C ±1.2 K, type N: > -200 °C ±1.2 K, type R: > 0 °C ±1.9 K, type S: > 0 °C ±1.9 K, type T: > -200 °C ±0.8 K erence frequency 40 dB 10 ∨ 60 dB Yes Yes Yes Yes; two upper and two lower limit values in each case Yes		
Interference voltage suppression for f = n x (f1 +/- 1 %), f1 = interf • Series mode interference (peak value of interference < rated value of input range), min. • Common mode voltage, max. • Common mode interference, min. nterrupts/diagnostics/status information Diagnostics function Alarms • Diagnostic alarm • Limit value alarm Diagnoses • Monitoring the supply voltage • Wire-break	type K: > -200 °C \pm 1.2 K, type N: > -200 °C \pm 1.2 K, type R: > 0 °C \pm 1.9 K, type S: > 0 °C \pm 1.9 K, type T: > -200 °C \pm 0.8 K erence frequency 40 dB 10 V 60 dB Yes Yes Yes Yes; two upper and two lower limit values in each case Yes; two upper 1 to 5 V, 4 to 20 mA, TC, R, and RTD		
Interference voltage suppression for f = n x (f1 +/- 1 %), f1 = interf • Series mode interference (peak value of interference < rated value of input range), min. • Common mode voltage, max. • Common mode interference, min. hterrupts/diagnostics/status information Diagnostics function Alarms • Diagnostic alarm • Limit value alarm Diagnoses • Monitoring the supply voltage • Wire-break • Overflow/underflow	type K: > -200 °C ±1.2 K, type N: > -200 °C ±1.2 K, type R: > 0 °C ±1.9 K, type S: > 0 °C ±1.9 K, type T: > -200 °C ±0.8 K erence frequency 40 dB 10 V 60 dB Yes Yes Yes Yes Yes; two upper and two lower limit values in each case Yes; two upper and two lower limit values in each case		
Interference voltage suppression for f = n x (f1 +/- 1 %), f1 = interf • Series mode interference (peak value of interference < rated value of input range), min. • Common mode voltage, max. • Common mode interference, min. • Common mode interference, min. • terrupts/diagnostics/status information Diagnostics function Alarms • Diagnostic alarm • Limit value alarm Diagnoses • Monitoring the supply voltage • Wire-break • Overflow/underflow Diagnostics indication LED • RUN LED	type K: > -200 °C ±1.2 K, type N: > -200 °C ±1.2 K, type R: > 0 °C ±1.9 K, type S: > 0 °C ±1.9 K, type T: > -200 °C ±0.8 K erence frequency 40 dB 10 V 60 dB Yes Yes Yes Yes Yes; two upper and two lower limit values in each case Yes; two upper and two lower limit values in each case Yes; Only for 1 to 5 V, 4 to 20 mA, TC, R, and RTD Yes Yes; green LED		
Interference voltage suppression for f = n x (f1 +/- 1 %), f1 = interf • Series mode interference (peak value of interference < rated value of input range), min. • Common mode voltage, max. • Common mode interference, min. • Common mode interference, min. • terrupts/diagnostics/status information Diagnostics function Alarms • Diagnostic alarm • Limit value alarm Diagnoses • Monitoring the supply voltage • Wire-break • Overflow/underflow Diagnostics indication LED	type K: > -200 °C ±1.2 K, type N: > -200 °C ±1.2 K, type R: > 0 °C ±1.9 K, type S: > 0 °C ±1.9 K, type T: > -200 °C ±0.8 K erence frequency 40 dB 10 V 60 dB Yes Yes Yes Yes Yes; two upper and two lower limit values in each case Yes; two upper and two lower limit values in each case		

 for channel diagnostics 	Yes; red LED		
for module diagnostics	Yes; red LED		
Potential separation			
Potential separation channels			
 between the channels 	No		
 between the channels, in groups of 	8		
 between the channels and backplane bus 	Yes		
 between the channels and the power supply of the 	Yes		
electronics			
Permissible potential difference			
between the inputs (UCM)	20 V DC		
Between the inputs and MANA (UCM)	10 V DC		
Isolation			
Isolation tested with	750 V DC (type test) and according to EN 50155 (routine test)		
Standards, approvals, certificates			
Ecological footprint			
 environmental product declaration 	Yes		
Global warming potential			
— global warming potential, (total) [CO2 eq]	38.6 kg		
— global warming potential, (during production) [CO2	14.4 kg		
eq] — global warming potential, (during operation) [CO2	24.6 kg		
eq]			
 — global warming potential, (after end of life cycle) [CO2 eq] 	-0.44 kg		
Railway application			
• EN 50121-3-2	Yes; EMC for rail vehicles		
• EN 50121-4	Yes; EMC for signal and telecommunications systems		
• EN 50121-5	Yes; EMC for fixed installations and railway power supply equipment		
• 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			
horizontal installation, min.	-40 °C; = Tmin (incl. condensation/frost)		
horizontal installation, max.	70 °C; = Tmax; +85 °C for 10 min (OT4, ST1/ST2 acc. to EN 50155)		
vertical installation, min.	-40 °C; = Tmin		
vertical installation, max.	40 °C; = Tmax		
Altitude during operation relating to sea level			
Installation altitude above sea level, max.	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- 2-38, max.	100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation		
Resistance			
Coolants and lubricants			
 Resistant to commercially available coolants and lubricants 	Yes; Incl. diesel and oil droplets in the air		
Use in stationary industrial systems			
 — 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); *		
 — to mechanically active substances according to EN 60721-3-3 	Yes; Class 3S4 incl. sand, dust, *		
Use on land craft, rail vehicles and special-purpose vehicles			

Miscellaneous Manufacturer De <u>tion</u>	UK CA		RCM		
General Product Approval			EMV		
provals / Certificates		10	02-10-17-00		
	UNSPSC	15	32-15-17-05		
	IDEA	4	3562		
	ETIM	7	EC001420		
	ETIM	8	EC001420		
	ETIM	9	EC001420		
	eClass	6	27-24-22-01		
	eClass	7.1	27-24-22-01		
	eClass	8	27-24-22-01		
	eClass	9	27-24-22-01		
	eClass	9.1	27-24-22-01		
	eClass	12	27-24-22-01		
	eClass	14	27-24-22-01		
		Version	Classification		
ssifications	EXILEME RAIL ADE37001960A,	omme support article			
ote:	for use in railway applications, a extreme RAIL" A5E37661960A				
er					
/eight, approx.	310 g				
ights					
eightepth	147 mm 129 mm				
dth	35 mm				
ensions	25 mm				
CC-830A					
 Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC- 	Yes; Conformal coating, Class A				
Military testing according to MIL-I-46058C, Amendment 7	Yes; Discoloration of coating po	•			
Electronic equipment on rolling stock acc. to EN 50155	Yes; Class PC2 protective coati	ng acc. to EN 50155:20	17		
61086	Yes; Type 1 protection				
Coatings for printed circuit board assemblies acc. to EN	Yes; Class 2 for high reliability				
ANSI/ISA-71.04 onformal coating					
 Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and 	* The supplied plug covers mus during operation!	t remain in place over th	ne unused interfaces		
Remark					
 Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 	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)				
60654-4					
Usage in industrial process technology — Against chemically active substances acc. to EN	Yes; Class 3 (excluding trichlorethylene)				
60721-3-5					
60721-3-5 — to mechanically active substances according to EN	degree 3); * Yes; Class 5S3 incl. sand, dust; *				
 to chemically active substances according to EN 		cl. salt spray acc. to EN	Class 5B3 on request Yes; Class 5C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity		
60721-3-5	0.000 0.00 0.1. Oquool				

Confirmation



last modified:

10/9/2024 🖸