SIEMENS

Data sheet

6AG2515-2RN03-4AB0

SIPLUS S7-1500 CPU 1515R-2 PN rail based on 6ES7515-2RN03-0AB0 with conformal coating OT4: -40...+70 °C ST1/2: 85 °C for 10 minutes . central processing unit with work memory 1 MB for program and 4.5 MB for data, 1st interface: PROFINET RT with 2-port switch, 2nd interface: PROFINET, SIMATIC Memory Card required

Central Information		
Firmware version	General information	
Name	Product type designation	CPU 1515R-2 PN
Desired on Desired Francisco Product function	Firmware version	
Product function	 FW update possible 	Yes
Isochronous mode Isoch	based on	6ES7515-2RN03-0AB0
■ Isochronous mode Engineering with ■ STEP 7 TIA Portal configurable/integrated from version Display Screen diagonal [cm] Control olements Number of keys Mode buttons 2 Supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) perm	Product function	
### STEP 7 TIA Portal configurable/integrated from version See entry ID: 109746275	● I&M data	Yes; I&M0 to I&M3
● STEP 7 TIA Portal configurable/integrated from version Display Screen diagonal [cm] 6.1 cm Centrol elements Number of keys 8. Mode buttons 2 Supply voltage Rated value (DC) 24 V permissible range, upper limit (DC) 19.2 V permissible range, upper limit (DC) 28.8 V Reverse polarity protection Yes Mains buffering • Mains/voltage failure stored energy time • Repeat rate, min. Input current Current consumption (rated value) 0.83 A Current consumption, max. 1.15 A IP 0.6 A²-s Power loss. Power loss. Power loss, typ. Memory Number of slots for SIMATIC memory card 1 SIMATIC memory card required Yes Work memory • integrated (for data) 4.5 Mbyte Load memory • Pilug-in (SIMATIC Memory Card), max. 32 Gbyte Backup • maintenance-free Yes CPU processing times for bit operations, typ. 20 ns for fixed point arithmetic, typ. 29 ns for for genemats (total) 8 000; Blocks (OB, FB, FC, DB) and UDTs	Isochronous mode	No
Display Screen diagonal [cm] 6.1 cm	Engineering with	
Screen diagonal [cm] 6.1 cm	 STEP 7 TIA Portal configurable/integrated from version 	see entry ID: 109746275
Number of keys	Display	
Number of keys	Screen diagonal [cm]	6.1 cm
Mode buttons 2	Control elements	
Mode buttons 2	Number of keys	8
Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) Reverse polarity protection Yes Mains buffering • Mains/voltage failure stored energy time • Repeat rate, min. Input current Current consumption (rated value) Current consumption, max. Inrush current, max. Pt 0.68 A²s Power loss Power loss, typ. Memory Number of slots for SIMATIC memory card \$\text{SIMATIC memory card required} \text{Yes} Work memory • Integrated (for program) • Integrated (for program) • Integrated (for program) • Integrated (for program) • Integrated (for data) Load memory • Plug-in (SIMATIC Memory Card), max. Backup • maintenance-free CPU processing times for bit operations, typ. 20 ns for word operations, typ. 20 ps 22 ns for floating point arithmetic, typ. 25 ps 128 ns CPU-blocks Number of elements (total) 8 000; Blocks (OB, FB, FC, DB) and UDTs	·	2
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Retentive data area (incl. timers, counters, flags), max. 512 kbyte; Available retentive memory for bit memories, timers, counters, DBs, and technology data (axes): 472 KB Flag • Size, max. • Number of clock memories Data blocks • Retentivity adjustable • Retentivity preset No Local data
and technology data (axes): 472 KB Flag Size, max. Number of clock memories Retentivity adjustable Retentivity preset No Local data
 Size, max. Number of clock memories 8; 8 clock memory bit, grouped into one clock memory byte Data blocks Retentivity adjustable Retentivity preset No Local data
 Number of clock memories Data blocks Retentivity adjustable Retentivity preset No Local data 8; 8 clock memory bit, grouped into one clock memory byte Yes No
Data blocks • Retentivity adjustable • Retentivity preset No Local data
 Retentivity adjustable Retentivity preset No Local data
Retentivity preset No Local data
Local data
• per priority class, max. 64 kbyte; max. 16 KB per block
Address area
Number of IO modules 4 096; max. number of modules / submodules
I/O address area
• Inputs 32 kbyte; All inputs are in the process image
Outputs
per integrated IO subsystem
— Inputs (volume) 8 kbyte
— Outputs (volume) 8 kbyte
Subprocess images
• Number of subprocess images, max. 32

Number of distributed IO systems	1	
Number of IO Controllers		
integrated	1	
Rack		
Modules per rack, max.	1; CPU	
Time of day		
Clock		
• Type	Hardware clock	
Backup time	6 wk; At 40 °C ambient temperature, typically	
Deviation per day, max.	10 s; Typ.: 2 s	
Operating hours counter		
Number	16	
Clock synchronization		
• supported	Yes	
on Ethernet via NTP	Yes	
Interfaces		
Number of PROFINET interfaces	2	
1. Interface		
Interface types		
• RJ 45 (Ethernet)	Yes; X1	
 Number of ports 	2	
integrated switch	Yes	
Protocols		
IP protocol	Yes; IPv4	
PROFINET IO Controller	Yes	
PROFINET IO Device	No	
SIMATIC communication	Yes; Only Server	
Open IE communication	Yes	
Web server	No	
Media redundancy	Yes	
PROFINET IO Controller		
Services		
— PG/OP communication	Yes	
— Isochronous mode	No	
— IRT	No	
— PROFlenergy	Yes	
Number of connectable IO Devices, max.	64	
— Updating times	The minimum value of the update time also depends on communication share set for PROFINET IO, on the number of IO devices, and on the quantity of	
Update time for RT	configured user data	
— for send cycle of 1 ms	1 ms to 512 ms	
2. Interface	1 1110 10 012 1110	
Interface types	Vac. Y2	
RJ 45 (Ethernet) Number of ports	Yes; X2	
Number of ports integrated quiteb	1 No	
• integrated switch	No	
Protocols	Voca IDv4	
IP protocol PROFINITI IO Controller	Yes; IPv4	
PROFINET IO Controller	No	
PROFINET IO Device CIMATIO company is action.	No Versi Onto General	
SIMATIC communication	Yes; Only Server	
Open IE communication	Yes	
Web server	No	
Media redundancy	No	
Interface types		
RJ 45 (Ethernet)		
• 100 Mbps	Yes	
 Autonegotiation 	Yes	
	Yes	
AutocrossingIndustrial Ethernet status LED	Yes	

Protocols		
PROFIsafe	No	
Number of connections		
Number of connections, max.	128	
Number of connections reserved for ES/HMI/web	10	
Number of S7 routing paths	16	
Redundancy mode		
PROFINET system redundancy (S2)	Yes	
PROFINET system redundancy (R1)	No	
Media redundancy		
— MRP	Yes; MRP Automanager according to IEC 62439-2 Edition 2.0	
MRP interconnection, supported	Yes; as MRP ring node according to IEC 62439-2 Edition 3.0	
— MRPD	No	
Switchover time on line break, typ.	200 ms; PROFINET MRP	
Number of stations in the ring, max.	50; Only 16 are recommended, however	
SIMATIC communication	co, ciny to all tocommenced, newster	
PG/OP communication	Yes; encryption with TLS V1.3 pre-selected	
S7 routing	Yes	
S7 communication, as server	Yes	
S7 communication, as server S7 communication, as client	No	
Open IE communication	110	
• TCP/IP	Yes	
— Data length, max.	64 kbyte	
bata length, max. — several passive connections per port, supported	Yes	
ISO-on-TCP (RFC1006)	Yes	
— Data length, max.		
Data length, max. UDP	64 kbyte Yes	
— Data length, max.	2 kbyte; 1 472 bytes for UDP broadcast	
— UDP multicast	Yes; max. 118 multicast circuits	
DHCP		
• DNS	No Voc	
• SNMP	Yes Yes	
• DCP	Yes	
• LLDP	Yes	
Web server	165	
HTTP	No	
• HTTPS	No	
OPC UA	NO	
OPC UA Client	No	
OPC UA Server	No	
Further protocols	NO	
MODBUS	Yes; MODBUS TCP	
	Tes, WODBOS TCF	
S7 message functions	64	
Number of login stations for message functions, max.	64 Voc	
Program alarms	Yes 10,000: Drogram manages are generated by the "Drogram Alarm" block	
Number of configurable program messages, max.	10 000; Program messages are generated by the "Program_Alarm" block, ProDiag or GRAPH	
Number of loadable program messages in RUN, max.	5 000	
Number of simultaneously active program alarms		
Number of program alarms	1 000	
Number of program alarms Number of alarms for system diagnostics	200	
Test commissioning functions		
Joint commission (Team Engineering)	No	
Status block	Yes; up to 8 simultaneously	
Single step	No	
Number of breakpoints	8; Breakpoints are only supported in RUN-Solo status	
Status/control	o, breakpoints are only supported in Norr-Solo status	
	Yes	
Status/control variable Variables		
Variables Number of variables, may	Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters	
Number of variables, max.— of which status variables, max.	200: per joh	
— OF WHICH STATUS VARIABLES, ITAX.	200; per job	

of which control variables, may	200; per job
— of which control variables, max. Forcing	200, per Job
• Forcing	Yes
Forcing, variables	Peripheral inputs/outputs
Number of variables, max.	200
Diagnostic buffer	200
• present	Yes
Number of entries. max.	3 200
— of which powerfail-proof	500
Traces	
Number of configurable Traces	4
Memory size per trace, max.	512 kbyte
Interrupts/diagnostics/status information	312 kbyte
Diagnostics indication LED	
RUN/STOP LED	Yes
• ERROR LED	Yes
MAINT LED	Yes
Connection display LINK TX/RX Supported technology chiests	Yes
Supported technology objects	N.
Motion Control	No
Controller	V III IND III III III III III III III III
PID_Compact	Yes; Universal PID controller with integrated optimization
PID_3Step	Yes; PID controller with integrated optimization for valves
PID-Temp	Yes; PID controller with integrated optimization for temperature
Counting and measuring	Yes
High-speed counter	No
Isolation	
Isolation tested with	750 V DC (type test) and according to EN 50155 (routine test); internal voltage limitation between internal chassis and ground to ±300 V (varistor)
Standards, approvals, certificates	minutes is a second of the sec
Ecological footprint	
environmental product declaration	Yes
- on the product declaration	100
Global warming potential	
Global warming potential — global warming potential (total) [CO2 eq.]	100 kg
— global warming potential, (total) [CO2 eq]	100 kg
	100 kg 25.8 kg
global warming potential, (total) [CO2 eq] global warming potential, (during production) [CO2	-
global warming potential, (total) [CO2 eq] global warming potential, (during production) [CO2 eq] global warming potential, (during operation) [CO2	25.8 kg
— global warming potential, (total) [CO2 eq] — global warming potential, (during production) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (after end of life cycle)	25.8 kg 75.2 kg
— global warming potential, (total) [CO2 eq] — global warming potential, (during production) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (after end of life cycle) [CO2 eq]	25.8 kg 75.2 kg
— global warming potential, (total) [CO2 eq] — global warming potential, (during production) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (after end of life cycle) [CO2 eq] Railway application	25.8 kg 75.2 kg -0.83 kg
global warming potential, (total) [CO2 eq] global warming potential, (during production) [CO2 eq] global warming potential, (during operation) [CO2 eq] global warming potential, (after end of life cycle) [CO2 eq] Railway application • EN 50121-3-2	25.8 kg 75.2 kg -0.83 kg Yes; EMC for rail vehicles
— global warming potential, (total) [CO2 eq] — global warming potential, (during production) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (after end of life cycle) [CO2 eq] Railway application • EN 50121-3-2 • EN 50121-4	25.8 kg 75.2 kg -0.83 kg Yes; EMC for rail vehicles Yes; EMC for signal and telecommunications systems
— global warming potential, (total) [CO2 eq] — global warming potential, (during production) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (after end of life cycle) [CO2 eq] Railway application • EN 50121-3-2 • EN 50121-5	25.8 kg 75.2 kg -0.83 kg Yes; EMC for rail vehicles Yes; EMC for signal and telecommunications systems Yes; EMC for fixed installations and railway power supply equipment Yes; Railway applications - overvoltage category OV2; pollution degree PD2;
— global warming potential, (total) [CO2 eq] — global warming potential, (during production) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (after end of life cycle) [CO2 eq] Railway application • EN 50121-3-2 • EN 50121-5 • EN 50124-1	25.8 kg 75.2 kg -0.83 kg Yes; EMC for rail vehicles Yes; EMC for signal and telecommunications systems Yes; EMC for fixed installations and railway power supply equipment Yes; Railway applications - overvoltage category OV2; pollution degree PD2; rated surge voltage UNi = 0.5 kV; UNm = 24 V DC
— global warming potential, (total) [CO2 eq] — global warming potential, (during production) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (after end of life cycle) [CO2 eq] Railway application • EN 50121-3-2 • EN 50121-4 • EN 50124-1 • EN 50125-1	25.8 kg 75.2 kg -0.83 kg Yes; EMC for rail vehicles Yes; EMC for signal and telecommunications systems Yes; EMC for fixed installations and railway power supply equipment Yes; Railway applications - overvoltage category OV2; pollution degree PD2; rated surge voltage UNi = 0.5 kV; UNm = 24 V DC Yes; Rail vehicles - see ambient conditions
— global warming potential, (total) [CO2 eq] — global warming potential, (during production) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (after end of life cycle) [CO2 eq] Railway application • EN 50121-3-2 • EN 50121-4 • EN 50121-5 • EN 50125-1 • EN 50125-1	25.8 kg 75.2 kg -0.83 kg Yes; EMC for rail vehicles Yes; EMC for signal and telecommunications systems Yes; EMC for fixed installations and railway power supply equipment Yes; Railway applications - overvoltage category OV2; pollution degree PD2; rated surge voltage UNi = 0.5 kV; UNm = 24 V DC Yes; Rail vehicles - see ambient conditions Yes; Stationary electrical equipment - see ambient conditions Yes; Signal and telecommunications systems - see ambient conditions; vibrations and shocks: Application point outside of tracks (1 m to 3 m away)
 — global warming potential, (total) [CO2 eq] — global warming potential, (during production) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (after end of life cycle) [CO2 eq] Railway application • EN 50121-3-2 • EN 50121-4 • EN 50121-5 • EN 50124-1 • EN 50125-1 • EN 50125-2 • EN 50125-3 	25.8 kg 75.2 kg -0.83 kg Yes; EMC for rail vehicles Yes; EMC for signal and telecommunications systems Yes; EMC for fixed installations and railway power supply equipment Yes; Railway applications - overvoltage category OV2; pollution degree PD2; rated surge voltage UNi = 0.5 kV; UNm = 24 V DC Yes; Rail vehicles - see ambient conditions Yes; Stationary electrical equipment - see ambient conditions Yes; Signal and telecommunications systems - see ambient conditions; vibrations and shocks: Application point outside of tracks (1 m to 3 m away from track) Yes; Rail vehicles - temperature class OT4, ST1/ST2, horizontal mounting
 — global warming potential, (total) [CO2 eq] — global warming potential, (during production) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (after end of life cycle) [CO2 eq] Railway application • EN 50121-3-2 • EN 50121-4 • EN 50121-5 • EN 50124-1 • EN 50125-1 • EN 50125-2 • EN 50125-3 • EN 50155 	25.8 kg 75.2 kg -0.83 kg Yes; EMC for rail vehicles Yes; EMC for signal and telecommunications systems Yes; EMC for fixed installations and railway power supply equipment Yes; Railway applications - overvoltage category OV2; pollution degree PD2; rated surge voltage UNi = 0.5 kV; UNm = 24 V DC Yes; Rail vehicles - see ambient conditions Yes; Stationary electrical equipment - see ambient conditions Yes; Signal and telecommunications systems - see ambient conditions; vibrations and shocks: Application point outside of tracks (1 m to 3 m away from track) Yes; Rail vehicles - temperature class OT4, ST1/ST2, horizontal mounting position
 — global warming potential, (total) [CO2 eq] — global warming potential, (during production) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (after end of life cycle) [CO2 eq] Railway application • EN 50121-3-2 • EN 50121-4 • EN 50121-5 • EN 50124-1 • EN 50125-1 • EN 50125-2 • EN 50125-3 • EN 50155 • EN 61373 	25.8 kg 75.2 kg -0.83 kg Yes; EMC for rail vehicles Yes; EMC for signal and telecommunications systems Yes; EMC for fixed installations and railway power supply equipment Yes; Railway applications - overvoltage category OV2; pollution degree PD2; rated surge voltage UNi = 0.5 kV; UNm = 24 V DC Yes; Rail vehicles - see ambient conditions Yes; Stationary electrical equipment - see ambient conditions Yes; Signal and telecommunications systems - see ambient conditions; vibrations and shocks: Application point outside of tracks (1 m to 3 m away from track) Yes; Rail vehicles - temperature class OT4, ST1/ST2, horizontal mounting position Yes; Rail vehicles - vibrations and shocks: Category 1 Class A/B
 — global warming potential, (total) [CO2 eq] — global warming potential, (during production) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (after end of life cycle) [CO2 eq] Railway application • EN 50121-3-2 • EN 50121-4 • EN 50121-5 • EN 50124-1 • EN 50125-1 • EN 50125-2 • EN 50125-3 • EN 50155 • EN 61373 • Fire protection acc. to EN 45545-2 	25.8 kg 75.2 kg -0.83 kg Yes; EMC for rail vehicles Yes; EMC for signal and telecommunications systems Yes; EMC for fixed installations and railway power supply equipment Yes; Railway applications - overvoltage category OV2; pollution degree PD2; rated surge voltage UNi = 0.5 kV; UNm = 24 V DC Yes; Rail vehicles - see ambient conditions Yes; Stationary electrical equipment - see ambient conditions Yes; Signal and telecommunications systems - see ambient conditions; vibrations and shocks: Application point outside of tracks (1 m to 3 m away from track) Yes; Rail vehicles - temperature class OT4, ST1/ST2, horizontal mounting position Yes; Rail vehicles - vibrations and shocks: Category 1 Class A/B
- global warming potential, (total) [CO2 eq] - global warming potential, (during production) [CO2 eq] - global warming potential, (during operation) [CO2 eq] - global warming potential, (after end of life cycle) [CO2 eq] Railway application • EN 50121-3-2 • EN 50121-4 • EN 50121-5 • EN 50124-1 • EN 50125-1 • EN 50125-2 • EN 50125-3 • EN 61373 • Fire protection acc. to EN 45545-2 Ambient conditions	25.8 kg 75.2 kg -0.83 kg Yes; EMC for rail vehicles Yes; EMC for signal and telecommunications systems Yes; EMC for fixed installations and railway power supply equipment Yes; Railway applications - overvoltage category OV2; pollution degree PD2; rated surge voltage UNi = 0.5 kV; UNm = 24 V DC Yes; Rail vehicles - see ambient conditions Yes; Stationary electrical equipment - see ambient conditions Yes; Signal and telecommunications systems - see ambient conditions; vibrations and shocks: Application point outside of tracks (1 m to 3 m away from track) Yes; Rail vehicles - temperature class OT4, ST1/ST2, horizontal mounting position Yes; Rail vehicles - vibrations and shocks: Category 1 Class A/B
 — global warming potential, (total) [CO2 eq] — global warming potential, (during production) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (after end of life cycle) [CO2 eq] Railway application • EN 50121-3-2 • EN 50121-4 • EN 50121-5 • EN 50124-1 • EN 50125-1 • EN 50125-2 • EN 50125-3 • EN 61373 • Fire protection acc. to EN 45545-2 Ambient conditions Ambient temperature during operation 	25.8 kg 75.2 kg -0.83 kg Yes; EMC for rail vehicles Yes; EMC for signal and telecommunications systems Yes; EMC for fixed installations and railway power supply equipment Yes; Railway applications - overvoltage category OV2; pollution degree PD2; rated surge voltage UNi = 0.5 kV; UNm = 24 V DC Yes; Rail vehicles - see ambient conditions Yes; Stationary electrical equipment - see ambient conditions Yes; Signal and telecommunications systems - see ambient conditions; vibrations and shocks: Application point outside of tracks (1 m to 3 m away from track) Yes; Rail vehicles - temperature class OT4, ST1/ST2, horizontal mounting position Yes; Rail vehicles - vibrations and shocks: Category 1 Class A/B Yes; For proof of conformity, see Service & Support
 — global warming potential, (total) [CO2 eq] — global warming potential, (during production) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (after end of life cycle) [CO2 eq] Railway application • EN 50121-3-2 • EN 50121-4 • EN 50121-5 • EN 50124-1 • EN 50125-1 • EN 50125-2 • EN 50125-3 • EN 61373 • Fire protection acc. to EN 45545-2 Ambient conditions Ambient temperature during operation • horizontal installation, min. 	25.8 kg 75.2 kg -0.83 kg Yes; EMC for rail vehicles Yes; EMC for signal and telecommunications systems Yes; EMC for fixed installations and railway power supply equipment Yes; Railway applications - overvoltage category OV2; pollution degree PD2; rated surge voltage UNi = 0.5 kV; UNm = 24 V DC Yes; Rail vehicles - see ambient conditions Yes; Stationary electrical equipment - see ambient conditions Yes; Signal and telecommunications systems - see ambient conditions; vibrations and shocks: Application point outside of tracks (1 m to 3 m away from track) Yes; Rail vehicles - temperature class OT4, ST1/ST2, horizontal mounting position Yes; Rail vehicles - vibrations and shocks: Category 1 Class A/B Yes; For proof of conformity, see Service & Support

mbient temperature during storage/transportation	40 °C	
• min.	-40 °C	
• max.	70 °C	
titude during operation relating to sea level	2,000 m	
Installation altitude above sea level, max. Ambient of temporature becomes in programs altitude.	2 000 m	
Ambient air temperature-barometric pressure-altitude Ambient air temperature-barometric pressure-altitude	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m)	
With condensation, tested in accordance with IEC 60068-	100 %; RH incl. condensation / frost (no commissioning in bedewed state),	
2-38, max.	horizontal installation	
esistance Capitate and lubricante		
Coolants and lubricants	Variable disease and all describes in the arise	
 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); \star	
 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		
 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); *	
 to mechanically active substances according to EN 60721-3-5 	Yes; Class 5S3 incl. sand, dust; *	
Usage in industrial process technology		
 Against chemically active substances acc. to EN 60654-4 	Yes; Class 3 (excluding trichlorethylene)	
 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)	
Remark		
 Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 	* The supplied plug covers must remain in place over the unused interfaces during operation!	
onformal coating		
Coatings for printed circuit board assemblies acc. to EN 61086	Yes; Class 2 for high reliability	
 Protection against fouling acc. to EN 60664-3 	Yes; Type 1 protection	
Electronic equipment on rolling stock acc. to EN 50155	Yes; class PC2 protective coating acc. to EN 50155	
 Military testing according to MIL-I-46058C, Amendment 7 	Yes; Discoloration of coating possible during service life	
Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A	Yes; Conformal coating, Class A	
figuration / header		
onfiguration / programming / header		
Programming language		
— LAD	Yes	
— FBD	Yes	
— STL	Yes	
— SCL	Yes	
— GRAPH	Yes	
now-how protection		
User program protection/password protection	Yes	
Copy protection	No	
Block protection	Yes	
ccess protection		
protection protection of confidential configuration data	Yes	
•	Yes Yes	
protection of confidential configuration data		
protection of confidential configuration data Password for display	Yes	

• lower limit	adjustable minimum cycle time	
• upper limit	adjustable maximum cycle time	
Dimensions		
Width	70 mm	
Height	147 mm	
Depth	129 mm	
Weights		
Weight, approx.	520 g	
Other		
Note:	for use in railway applications, also observe the product information "SIPLUS extreme RAIL" A5E37661960A, Online Support article 109736776	
Classifications		

	Version	Classification
eClass	14	27-24-22-07
eClass	12	27-24-22-07
eClass	9.1	27-24-22-07
eClass	9	27-24-22-07
eClass	8	27-24-22-07
eClass	7.1	27-24-22-07
eClass	6	27-24-22-07
ETIM	9	EC000236
ETIM	8	EC000236
ETIM	7	EC000236
IDEA	4	3565
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval Railway

Miscellaneous









Confirmation

Environment



last modified:

12/8/2024