SIEMENS

Data sheet 6AG1138-4DF11-7AB0



Figure similar

SIPLUS ET 200S EM 1SI RS-232/ 422 based on 6ES7138-4DF11-0AB0 with conformal coating, -25…+70 °C, serial interface 1-channel, 15 mm width, RS-232/422, 485 MODBUS/USS

Supply voltage	
Rated value (DC)	24 V
Reverse polarity protection	Yes
Input current	
from supply voltage L+, max.	80 mA; Typ. 20 mA
from backplane bus 3.3 V DC, max.	10 mA
Power loss	
Power loss, typ.	1.2 W
Storage	
Standard blocks	11 100 byte; Modbus: S_SEND 2700, S_RCV 2400, S_MODB 6000; USI: S_SEND 2700, S_RCV 2400, S_USST 1900, S_USSR 2600, S_USSI 1500
Interfaces	
Number of interfaces	1
Point-to-point connection	
● Transmission rate, max.	115.2 kbit/s; half duplex: 110, 300, 600, 1 200, 2 400, 4 800, 9 600, 19 200, 38 400, 57 600, 76 800, 115 200 bps
Integrated protocol driver	
— Modbus	Yes
— USS	Yes
Signals	
— RS 232C	RS 232C signals: 8 (TxD, RxD, RTS, CTS, DTR, DSR, DCD, PE)
— RS 422	TxD(A), RxD(A), TxD(B), RxD(B), GND
— RS 485	R/T(A), R/T(B), GND
Character frame (adjustable)	
— Bits per character	8
— Number of start/stop bits	1 or 2 (USS only 1)
— Bits per character frame	10 or 11 (USS only 11 bit)
— Parity	none, odd, even (USI even only)
Data quantity per PLC sampling cycle	
— Send	32 byte; With IM151-1 Standard as of 6ES7151-1AA04-0AB0; with IM151-1 High Feature as of 6ES7151-1BA01-0AB0; otherwise 8 bytes
— Receive	32 byte; With IM151-1 Standard as of 6ES7151-1AA04-0AB0; with IM151-1 High Feature as of 6ES7151-1BA01-0AB0; otherwise 8 bytes
Interface types	
RS 232	
● Cable length, max.	15 m
RS 485	
● Cable length, max.	1 200 m
Interrupts/diagnostics/status information	

Subject to change without notice
© Copyright Modulplc

Diagnostics indication LED	
● Receive RxD	Yes
● Transmit TxD	Yes
● Group error SF (red)	Yes
Potential separation	
Potential separation interface	
● Between RS 422/485 and internal power supply	Yes
● between RS 232 and internal power supply	Yes
Ambient conditions	
Ambient temperature during operation	
● min.	-25 °C; = Tmin
● max.	70 °C; = Tmax
Altitude during operation relating to sea level	
● Installation altitude above sea level, max.	5 000 m
● Ambient air temperature-barometric pressure-altitude	Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m)
Relative humidity	
● With condensation, tested in accordance with IEC 60068-2-38, max.	100 %; RH incl. condensation/frost permitted (no commissioning in bedewed state)
Resistance	
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 ships/at sea	
— to biologically active substances according to EN 60721-3-6	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request
— to chemically active substances according to EN 60721-3-6	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
— to mechanically active substances according to EN 60721-3-6	Yes; Class 6S3 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!
Dimensions	
Width	15 mm
Height	81 mm
Depth	52 mm
Weights	
Weight, approx.	50 g
Classifications	

	Version	Classification
eClass	16	27-24-26-08
eClass	14	27-24-26-08
eClass	12	27-24-26-08
eClass	9.1	27-24-26-08
eClass	9	27-24-26-08
eClass	8	27-24-26-08
eClass	7.1	27-24-26-08
eClass	6	27-24-26-08

© Copyright Modulplc

ETIM	10	EC001604
ETIM	9	EC001604
ETIM	8	EC001604
ETIM	7	EC001604
IDEA	4	3564
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval

Manufacturer Declaration

China RoHS

EMV

For use in hazardous locations

CCC-Ex

last modified: 12/8/2024

© Copyright Modulplc