SIEMENS

Data sheet

6AG1138-4FA05-2AB0



SIPLUS ET 200S EM F-DI 24V PROFIsafe based on 6ES7138-4FA05-0AB0 with conformal coating, -25...+60 °C, electronic module for ET 200S, 4/8 F-DI PROFIsafe, 24 V DC, 30 mm overall width, up to category 4 (EN 954-1)/ SIL3 (IEC 61508)/PLE (ISO 13849), can also be used in PROFINET configuration with IM 151-3 HF

Figure similar

Supply voltage	
Rated value (DC)	24 V
Encoder supply	
Number of outputs	2
Type of output voltage	min. L+ (-1.5 V)
Short-circuit protection	Yes; Electronic (response threshold 0.7 A to 1.8 A)
Output current	
Rated value	300 mA
 permissible range, lower limit 	0 mA
 permissible range, upper limit 	300 mA
Power loss	
Power loss, typ.	4 W
Address area	
Address space per module	
Inputs	6 byte
Outputs	4 byte
Digital inputs	
Number of digital inputs	8; 8 (one-channel); 4 (two-channel)
Input characteristic curve in accordance with IEC 61131, type 1	Yes
Input voltage	
 Type of input voltage 	DC
Rated value (DC)	24 V
Input current	
● for signal "1", typ.	3.7 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— parameterizable	Yes
— at "0" to "1", min.	0.3 ms
— at "0" to "1", max.	17 ms
— at "1" to "0", min.	0.3 ms
— at "1" to "0", max.	17 ms
Cable length	
 shielded, max. 	500 m
• unshielded, max.	500 m
Encoder	
Connectable encoders	
2-wire sensor	No

 permissible quiescent current (2-wire sensor), 	0.6 mA; max.
max.	
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Alarms	
Diagnostic alarm	Yes
Diagnoses	
 Diagnostic information readable 	Yes
Short-circuit	Yes
Diagnostics indication LED	
Group error SF (red)	Yes
 Status indicator digital input (green) 	Yes
Potential separation	
Potential separation digital inputs	
 between the channels 	No
 between the channels and backplane bus 	Yes
 Between the channels and load voltage L+ 	No
Standards, approvals, certificates	
Highest safety class achievable in safety mode	
• acc. to EN 954	4
 Performance level according to ISO 13849-1 	PLe
• SIL acc. to IEC 61508	SIL 2 (single-channel), SIL 3 (two-channel)
Ambient conditions	
Ambient temperature during operation	
• min.	-25 °C
• max.	60 °C
Altitude during operation relating to sea level	
 Installation altitude above sea level, max. 	2 000 m
Ambient air temperature-barometric pressure-	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m)
altitude	
Relative humidity	
With condensation, tested in accordance with IEC 60068-2-38, max.	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)
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	30 mm
Height	81 mm
Depth	52 mm
Weights	

last modified:

78 g

7/28/2021 🖸