SIEMENS

Data sheet

6AG1132-6HD01-7BB1



SIPLUS ET 200SP RQ 4x 120V DC..230VAC/5A ST based on 6ES7132-6HD01-0BB1 with conformal coating, -40...+70 °C, relay module normally open, suitable for BU type B0 or B1, module diagnostics

General information				
Product type designation	RQ 4x120 VDC 230 VAC/5 A NO ST			
Firmware version				
FW update possible	No			
usable BaseUnits	BU type B0, B1			
Color code for module-specific color identification plate	CC40			
Product function				
 I&M data 	Yes; I&M0 to I&M3			
Isochronous mode	No			
Operating mode				
• DQ	Yes			
 DQ with energy-saving function 	No			
• PWM	No			
Oversampling	No			
• MSO	No			
Redundancy				
 Redundancy capability 	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 (rated value)	55 mA; without load			
output voltage / header				
Rated value (AC)	230 V			
Power loss				
Power loss, typ.	1.5 W			
Address area				
Address space per module				
Inputs	+ 1 byte for QI information			
Outputs	1 byte			
Hardware configuration				
Automatic encoding	Yes			
Mechanical coding element	Yes			
Digital outputs				
Type of digital output	Relays			
Number of digital outputs	4			
Current-sinking	Yes			

Current coursing	Vec			
Current-sourcing	Yes			
Digital outputs, parameterizable	_ Yes			
Short-circuit protection	No			
Parallel switching of two outputs	N.e.			
• for logic links	Yes			
• for uprating	No			
for redundant control of a load	Yes			
Switching frequency	0.11			
• with resistive load, max.	2 Hz			
• with inductive load, max.	0.5 Hz			
on lamp load, max.	2 Hz			
Total current of the outputs	F A			
Current per channel, max.	5 A			
Current per module, max.	20 A			
Total current of the outputs (per module)				
horizontal installation				
— up to 50 °C, max.	20 A			
— up to 60 °C, max.	16 A			
vertical installation	20.4			
— up to 40 °C, max.	20 A			
— up to 50 °C, max.	16 A; in all other mounting positions			
Relay outputs				
Number of relay outputs	4			
Rated supply voltage of relay coil L+ (DC)	24 V			
Current consumption of relays (coil current of all relays).	40 mA			
relays), max. • external protection for relay outputs	Yes, with 6A			
Number of operating cycles, max.	7 000 000; see additional description in the manual			
Switching capacity of contacts — with inductive load, max.	2 A; see additional description in the manual			
— with resistive load, max.				
 — with resistive load, max. — Thermal continuous current, max. 	5 A; see additional description in the manual			
-	5 A; Max. 1 385 VA, 150 W 100 mA; 5 V DC			
 — Switching current, min. — Rated switching voltage (DC) 	24 V DC to 120 V DC			
— Rated switching voltage (DC) — Rated switching voltage (AC)	24 V DC to 230V AC			
Cable length	24V AC 10 230V AC			
• shielded, max.	1 000 m			
• unshielded, max.	200 m			
Interrupts/diagnostics/status information	200 m			
	Vec			
Diagnostics function	Yes			
Substitute values connectable	Yes			
Alarms	Vec			
Diagnostic alarm	Yes			
Diagnoses	Vec			
Monitoring the supply voltage	Yes			
Wire-break Short aircuit	No			
Short-circuit	No			
Diagnostics indication LED				
Monitoring of the supply voltage (PWR-LED) Chapped status display:	Yes; green PWR LED			
Channel status display for channel display	Yes; green LED			
for channel diagnostics for module diagnostics				
for module diagnostics	Yes; green/red DIAG LED			
Potential separation				
Potential separation channels	N .			
between the channels	Yes			
between the channels and backplane bus	Yes			
 between the channels and the power supply of the electronics 	Yes			
Isolation				
Isolation tested with	2 500 V DC (type test)			

tested with				
between channels and backplane bus/supply	2 500 V DC			
 between backplane bus and supply voltage 	2 500 V DC			
	707 V DC (type test)			
Standards, approvals, certificates	No			
Suitable for safety functions	No			
Ambient conditions				
Ambient temperature during operation				
horizontal installation, min.	-40 °C; = Tmin (incl. condensation/frost)			
horizontal installation, max.	70 °C; = Tmax; see Derating BasedOn (e.g. manual), additionally Tmax > 60 °C max. continuous current of 3 A per relay			
• vertical installation, min.	-40 °C; in all other mounting positions			
vertical installation, max.	50 °C; in all other mounting positions			
Altitude during operation relating to sea level	2.000			
Installation altitude above sea level, max.	3 000 m			
Ambient air temperature-barometric pressure- altitude	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax - 1 K/100 m) at 795 hPa 701 hPa (+2 000 m +3 000 m)			
Relative humidity	100 % inclusion of fraction and the second s			
With condensation, tested in accordance with IEC 60068-2-38, max.	100 %; incl. condensation / frost permitted (no commissioning under condensation conditions)			
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, *			
 — Against mechanical environmental conditions acc. to EN 60721-3-3 	Yes; Class 3M8 using the SIPLUS Mounting Kit ET 200SP (6AG1193- 6AA00-0AA0)			
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; *			
 Against mechanical environmental conditions acc. to EN 60721-3-6 	Yes; Class 6M4 using the SIPLUS Mounting Kit ET 200SP (6AG1193- 6AA00-0AA0)			
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!			
Conformal 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			
 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			
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Dimensions				
Dimensions Width	20 mm			
	20 mm 73 mm			

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Weight, approx.

last modified:

40 g

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