



Figure similar

spare part SIPLUS S7-300 SM 322 8 DO 48-125 V based on 6ES7322-1CF00-0AA0 with conformal coating, -25...+70 °C, digital output isolated, 8 DO, 48-125 V DC, 1.5 A, 1x 20-pole

General information	
based on	6ES7322-1CF00-0AA0
Supply voltage	
Load voltage L+	<ul style="list-style-type: none"> Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) Reverse polarity protection
from load voltage L+ (without load), max.	48 V; 48 V DC to 125 V DC
from backplane bus 5 V DC, max.	40 V
	140 V
	Yes; through fuse
Input current	
from load voltage L+ (without load), max.	2 mA
from backplane bus 5 V DC, max.	100 mA
Power loss	
Power loss, typ.	7.2 W
Digital outputs	
Number of digital outputs	8
Short-circuit protection	Yes; Electronic
• Response threshold, typ.	4.4 A
Limitation of inductive shutdown voltage to	M (-1 V)
Controlling a digital input	Yes
Spare fuses	6.3 A / 250 V, quick-response, 5x 20 mm
Switching capacity of the outputs	
• on lamp load, max.	15 W; 15 W (48 V) or 40 W (125 V)
Output voltage	
• for signal "1", min.	L+ (-1.2 V)
Output current	
• for signal "1" rated value	1.5 A
• for signal "1" permissible range for 0 to 40 °C, min.	10 mA
• for signal "1" permissible range for 0 to 40 °C, max.	1.5 A
• for signal "1" permissible range for 40 to 60 °C, min.	10 mA
• for signal "1" permissible range for 40 to 60 °C, max.	1.5 A
• for signal "1" minimum load current	10 mA
• for signal "1" permissible surge current, max.	3 A; for 10 ms
• for signal "0" residual current, max.	0.5 mA
Output delay with resistive load	
• "0" to "1", max.	2 ms
• "1" to "0", max.	15 ms
Parallel switching of two outputs	
• for uprating	No

• for redundant control of a load	Yes; only outputs of the same group
Switching frequency	
• with resistive load, max.	25 Hz
• with inductive load, max.	0.5 Hz
• with inductive load (acc. to IEC 60947-5-1, DC13), max.	0.5 Hz
• on lamp load, max.	10 Hz
Total current of the outputs (per group)	
horizontal installation	
— up to 40 °C, max.	6 A
— up to 50 °C, max.	4 A
— up to 60 °C, max.	3 A
— up to 70 °C, max.	1 A
vertical installation	
— up to 40 °C, max.	4 A
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	600 m
Interrupts/diagnostics/status information	
Alarms	No
Diagnostics function	No
Alarms	
• Diagnostic alarm	No
Diagnoses	
• Wire-break	No
• Short-circuit	No
• Fuse blown	No
• missing load voltage	No
Diagnostics indication LED	
• Rated load voltage PWR (green)	No
• Fuse OK FSG (green)	No
• Group error SF (red)	Yes
• Status indicator digital output (green)	Yes
Potential separation	
Potential separation digital outputs	
• between the channels	Yes
• between the channels, in groups of	4
• between the channels and backplane bus	Yes; Optocoupler
Isolation	
Isolation tested with	1 500 V AC
Standards, approvals, certificates	
CE mark	Yes
UL approval	Yes; File E239877
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
Railway application	
• EN 50155	Yes; T1 Category 1 Class A/B horizontal mounting position
Ambient conditions	
Ambient temperature during operation	
• min.	-25 °C
• max.	70 °C; = Tmax; for use on railway vehicles according to EN50155, the rated temperature range -25 ... +55 °C (T1) or 60 °C @ UL/ULhaz/ATEX/FM use applies
Ambient temperature during storage/transportation	
• min.	-40 °C
• max.	70 °C
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	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)		
Resistance			
Use in stationary industrial systems	<ul style="list-style-type: none"> — to biologically active substances according to EN 60721-3-3 — to chemically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 		
Use on ships/at sea	<ul style="list-style-type: none"> — to biologically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 		
Usage in industrial process technology	<ul style="list-style-type: none"> — Against chemically active substances acc. to EN 60654-4 — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 		
Remark	<ul style="list-style-type: none"> — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 <p>* The supplied plug covers must remain in place over the unused interfaces during operation!</p>		
Connection method			
required front connector	20-pin		
Dimensions			
Width	40 mm		
Height	125 mm		
Depth	120 mm		
Weights			
Weight, approx.	250 g		
Classifications			
	Version	Classification	
	eClass	14	
	eClass	12	
	eClass	9.1	
	eClass	9	
	eClass	8	
	eClass	7.1	
	eClass	6	
	ETIM	10	
	ETIM	9	
	ETIM	8	
	ETIM	7	
	IDEA	4	
	UNSPSC	15	
		27-24-22-04	
		27-24-22-04	
		27-24-22-04	
		27-24-22-04	
		27-24-22-04	
		27-24-22-04	
		EC001419	
		3566	
		32-15-17-05	
Approvals / Certificates			
General Product Approval	EMV		

[Manufacturer Declaration](#)



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